BUSINESS STATISTICS OFFICE

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Business Monitor

Report on the **Census of Production**

Agricultural machinery and tractors





publication of the Government Statistical Service

BUSINESS MONITORS

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PA321

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1986

Agricultural machinery and tractors

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
PA10		
PA11		
PA12		
PA13 PA14		
PA14		
PA16		
PA17		
PA21		38
PA22	1 Iron and steel industry	-1
PA22	2 Steel tubes	1
PA22		-2
PA22		0
PA23		-18
PA23 PA24		-6
PA24	- CONTROL OF CO	-1 0
PA24		_9
PA24		0
PA24		-2
PA24		-6
PA24	7 Glass and glassware	2
PA24	8 Refractory and ceramic goods	1
PA25	1 Basic industrial chemicals	0
PA25		1
PA25		1
PA25		1
PA25		0
PA25		0
PA31		0 -4
PA31		0
PA31		0
PA31		2
PA31	Hand tools and finished metal goods	-1
PA32	Industrial plant and steelwork	4
PA32		-1
PA32		-1
PA32		0
PA32		2
PA32	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 14
PA32		14
17102	dry cleaning machinery	-4
PA32		0
PA32		0
PA33	Manufacture of office machinery and data processing equipment	7
PA34	1 Insulated wires and cables	2
PA34:		1
PA34:		3
PA34	The state of the s	
DAGA	passive electronic components Miscellaneous electronic equipment	2
PA34	wiscentarious electronic equipment	3
PA34		1
PA35		13
DASE		0

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		Employme
		percentage
		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
PA303	Measuring, checking and precision instruments and apparatus	4
	Medical and surgical equipment and orthopaedic appliances	-8
PA372	Optical precision instruments and photographic equipment	1
PA373	Clocks, watches and other timing devices	0
PA374		1
PA411	Organic oils and fats	
PA412	Slaughtering of animals and production of meat and by-products	-5
PA413	Preparation of milk and milk products	and the last of the last of
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	
PA464	Wooden containers	
PA465	Miscellaneous wooden articles	
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	186
PA472	Conversion of paper and board	3
PA475	Printing and publishing	
PA481	Rubber products	5
PA483		2
PA491	Processing of plastics	2
PA491	Jewellery and coins Musical instruments	1
PA493		-5
PA494	Photographic and cinematographic processing laboratories	
PA494 PA495	Toys and sports goods Miscellaneous manufacturing industries	-1 07
		6/
PA500 PA1002	Construction	
1 1002	Summary tables	

PA352 Motor vehicle bodies, trailers and caravans

PA321 AGRICULTURAL MACHINERY AND TRACTORS

The information in this report relates to establishments classified to the Agricultural machinery and tractors industry, Group 321 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

3211 Agricultural machinery

Soil preparation and cultivating machinery

Manufacture of ploughs, harrows, fertilizer distributors and other soil preparation and cultivating machines, including self-propelled implements and parts

Harvesting and threshing machinery

Manufacture of root-crop harvesters, hay and silage making machines, combine harvesters and loaders.

Dairy, feed processing and other agricultural machinery

Manufacture of milking machines, feed processors and seed treating machines, farm elevators and conveyors, spraying machines and other agricultural machinery, not elsewhere specified. Industrial dairy machinery and grain processing machinery are classified to Group 324. Mowers for lawns, parks and sports grounds are classified to Group 328.

3212 Wheeled tractors

Manufacture and assembly of three and four wheeled and half tracked tractors primarily for agricultural purposes. Track laying tractors and industrial tractors are classified to Group 325. Road tractors solely for tractor-trailer combinations are classified to Group 351. Accessories for construction equipment are classified to Group 325. Electrical accessories and other electrical equipment are classified

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

PA321

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

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.

Page

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

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

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 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 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 year 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.

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 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 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 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

ROUNDING 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 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. 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

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.

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

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 excluded.

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. 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

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 EMPL OYEES

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

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

GROSS OUTPUT

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 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

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.

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 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. If the transport from docks or airport of imported goods is not included in the cost of goods purchased, the cost is entered at cif plus duty, if applicable. Transfers of goods to an establishment from other departments of the organisation not covered by the return are included at the estimated selling value recorded by the other departments.

REMUNERATION PAID TO OUTWORKERS

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

SALES OF GOODS PRODUCED

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

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

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)

19. The lacter and anti-strain dwell in I	Unit	1982	1983	1984	1985	1986
Enterprises	Number	668	667	976(b)	1,017	967
Establishments	100 100 100 100 100 100 100 100 100 100	693	686	996(b)	1,032	987
Sales of goods produced	£ million	946.8	972.6	1,089.9	1,137.6	1,027.2
Work done and industrial services						
rendered		3.5	4.6	5.9	5.8	4.4
Capital goods produced for establishments' own use		0.5	1.9	0.5	1.2	0.9
Non-industrial services rendered		0.6	1.1	4.9	8.4	5.1
Goods merchanted or factored		95.2	88.8	100.6	100.0	95.2
Total sales and work done		1,046.5	1,069.0	1,201.9	1,253.1	1,132.8
Increase during the year, work in progress and goods on hand for sale	CICLORUS	-31.2	8.6	12.3	-7.1	-1,1
Gross output		1,015.3	1,077.6	1,214.2	1,246.0	1,131.7
Purchases of materials for use in pro- duction, packaging and fuel	salans ent LA	572.8	583.8	648.8	729.4	654.9
Purchases of goods for merchanting or factoring		81.0	73.4	84.3	83.3	89.6
Increase during the year, stocks of materials, stores and fuel		3.6	-2.2	-1.3	-1.2	-2.3
Cost of industrial services received		14.7	12.8	16.1	19.4	26.6
Net output		350.3	405.4	463.7	412.7	358.3
Total employment	Thousand	25.8	23.7	23.6(b)	23.2	21.5(c)
Net output per head	£	13,559	17,080	19,649	17,778	16,634
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	f million	6.3	5.2	6.3	6.7	7.7(d)
Rents of industrial and commercial buildings	n.	3.1	2.8	3.0	2.7	3.2
Commercial insurance premiums		3.2	2.8	2.7	3.5	3.8
Bank charges		0.5	0.6	0.6	0.6	0.6
Other non-industrial services		38.5	38.3	53.0	50.4	45.2
Licensing of motor vehicles		0.3	0.4	0.4	0.4	0.4
Rates, excluding water rates		7.6	7.1	7.4	7.7	9.0
Gross value added at factor cost		290.6	348.2	390.4	340.7	288.5
Gross value added at factor cost per head	£	11,249	14,672	16,540	14,677	13,393

⁽a) Satisfactory returns accounted for 71 per cent of employment within the industry in 1986.

TABLE 2

Capital expenditure, 1982-1986

All United Kingdom establishments classified to the industry

					omdaldstee mol	million
tanta (a)	1982	1983	1984	1985	1986	Sus
Land and buildings		1000	ger kont		one stoom income	
New building work	1.8	1.5	1.5	3.7	4.1	
Land and existing building						
Acquisitions	0.9	lagreda 1.3	2.7	3.7	5.0	
Disposals	tod late1.9	1.6	2.1	2.2	1.0	
Net	8.0	1.2	2.1	5.1	8.1	
Plant and machinery						
Acquisitions	12.0	15.4	23.0	28.8	40.4(a)	
Disposals	1.6	0.7	1.6	1.2	1.0	
Net	10.4	14.7	21.4	27.6	39.3	
/ehicles						
Acquisitions	2.6	2.4	3.6	3.2	3.2	
Disposais	1.0	0.8	1.1	1.1	1.5	
Net	1.6	1.7	2.5	2.1	1.7	
Total net capital expend	iture 12.8	17.6	25.9	34.8	49.1	

⁽a) Returned figures gave a total of £1004 thousand for computer and associated data communications equipment. This figure was collected separately for in 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		
Materials, stores and fuel	3.6	-2.2	-1.3	-1.2	-2.3	60.8
Work in progress	17.2	9.1	-2.6	-5.6	-2.2	66.9
Goods on hand for sale	-14.0	-0.5	14.9	-1.4	1.1	115.2
Total	-27.7	6.4	11.0	-8.3	-3.3	242.9

⁽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 1% in this industry. Estimates for other variables are dependent upon employment and the change should be taken into account when interpreting the figures in this publication. Further information is given on page 2.

⁽c) Returned figures gave a total of 168 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

⁽d) Returned figures gave a total of £2389 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

242.9

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	Estab-	Enter- prises	Employmen	t		Wages and s	alaries (c)		
group	lish- ments	(b)							
			Total	Opera-	Administr-	Operatives	1213	Administra	
			including working	tives	ative, tech- nical and			technical a	nd
			proprietors		clerical				
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
The second secon	Marian	205	1.0)						
1-9	786	785	1.9)						
10-19	94	94	1.3)	4.0	2.2	31.9	7,970	20.9	9,545
20-49	44	43	1.4)						
50-99	31	31	2.2)						
100-199	20	19	2.9	1.9	1.0	15.9	8,235	9.5	9,850
200-399	6	6	1.4	0.9	0.5	7.6	8,501	4.3	8,549
400-1,999	3	3	2.6	2.1	0.6	17.4	8,464	5.8	10,000
2,000-Plus	3	3	7.8	5.7	2.1	58.7	10,382	29.4	13,723

	contact gripps has							
Total	987	967	21.5	14.5	6.4	131.5	9,046	69.9 10,959

⁽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.

Total sales and work done	Gross output	Net output		Gross value added at factor cost		Net capital expenditure	Net capital Total stocks expenditure and work in progress at		
our -						end of year			
		Total	per head	Total	per head				
£ million	£ million	£ million	<u>t</u>	£ million	f	£ million	£ million		
252.1	254.9	109.1	16,020	(d)	(d)	7.2	64.3		
121.7	121.7	49.2	16,968	123.9(d)	12,/73(d)	2.9	31.2		
40.5	40.9	20.3	14,563	16.5	11,841	1.4	12.1		
76.7	67.1	19.4	7,338	15.5	5,870	1.1	22.1		
641.8	647.1	160.3	20,559	132.6	17,005	36.5	113.1		

1,132.8

1,131.7

⁽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 £25.6 million.

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

TABLE 7

PA321

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 received	total returns	Percentage of total employment		
1986 April 6-30	5203 :	m126i			
May	2.2		0.3		
June	6.5		2.8		
July	13.0		8.6		
August	4.3		1.4		
September	4.3		1.0		
October	2.2		0.3		
November	6.5		27.0		
December	37.0		33.2		
1987 January	10.9		20.8		
February	2.2		0.6		
1 March - 5 April	10.9		4.0		

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
	-					
Gross output per head	£	39,300	45,401	51,447	53,679	52,534
Net output per head	£	13,559	17,080	19,649	17,778	16,634
Gross value added per head	£	11,249	14,672	16,540	14,677	13,393
Gross value added as a percentage of gross output	x	29	32	32	27	26
Ratio of gross output to stocks		4.4	4.6	5.0	4.9	4.7
Nages and salaries as a percentage of gross value added	*	64	49	48R	59	70
latio of operatives to administrative, echnical and clerical employees		2.3	2.4	2.4	2.4	2.3
Nages and salaries per operative	£	6,682	6,763	7,872R	8,410	9,046
Nages and salaries per administrative, echnical and clerical employee	£	8,725	8,684	8,943R	10,053	10,959
Net capital expenditure per head	£	494	740	1,096	1,499	2,279
Net capital expenditure as a percentage of gross value added	×	4	5	7	10	17

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)	
and shorten buildings	7.28.4		7_865		coulties 3		(30)	arbong at	loog to agist	
		Thousand	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		0.2	1.1		•	3.5	1.0	2.7	0.9	
Yorkshire and Humberside		4.9	22.8		22.9	83.3	23.2	71.9	24.9	
East Midlands		0.9	4.0	0.7	1.4	13.1	3.6	10.3	3.6	
East Anglia		1.3	6.1	0.9	1.9	20.2	5.6	15.7	5.5	
South East		5.1	23.6	14.5	29.6	88.1	24.6	61.0	21.2	
South West		1.8	8.4	1.8	3.7	30.5	8.5	23.9	8.3	
West Midlands		5.3	24.5	10.9	22.3	91.1	25.4	80.5	27.9	
North West		0.8	3.8	0.5	1.0	8.6	2.4	6.6	2.3	
England	400 (20.3	94.4	47.7	97.1	338.4	94.5	272.8	94.6	
Wales		0.2	1.0	0.2	0.5	3.5	1.0	2.8	1.0	
Scotland	8.505	0.5	2.5	0.7	1.4	9.1	2.6	7.3	2.5	
Great Britain		21.1	97.9	48.5	98.9	351.1	98.0	282.9	98.0	
Northern Ireland		0.4	2.1	0.6	1.1	7.2	2.0	5.7	2.0	
United Kingdom	e.e	21.5	100.0	49.1	100.0	358.3	100.0	288.5	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.

TABLE 9

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

	Unit		3211		3212	
Enterprises(a)	Number	Net cap	924	fotal englesem	48	
Establishments			938		49	
	£ million		298.7		728.4	
Sales of goods produced	Inan 199		toba req t		720.4	
Nork done and industrial services endered	besetk besetk moddors		2.1		2.3	
Capital goods produced for establishments' own use	. 4.3		0.5		0.4	
Non-industrial services rendered			1.0		4.1	
Goods merchanted or factored			58.3		36.9	
Total sales and work done			360.5		772.2	
ncrease during the year, work in						
progress and goods on hand for sale			2.7		-3.8	
Gross output	1 5 T		363.3		768.4	
Purchases of materials for use in pro- duction, packaging and fuel	765		195.7(b)		548.8(b)	
Purchases of goods for merchanting or actoring	,ê.şs		(b)		(b)	
ncrease during the year, stocks of materials, stores and fuel	0, 1		-2.6		0.4	
Cost of industrial services						
eceived	 e.a		9.0		17.6	
Net output	***		156.0		202.3	
Total employment	Thousand		9.9		11.6	
Net output per head	£		15,745		17,390	
Cost of non-industrial services eceived						
Hire of vehicles, plant and					erentoire	
machinery a second control of the co	£ million		2.1		5.5	
Rents of industrial and commercial buildings			1.3		1.9	
Commercial insurance premiums	yokgow work r		2.4		1.4	
Bank charges	graphic building		0.5		0.2	
Other non-industrial services			23.0		22.2	
icensing of motor vehicles	stephenica de la comp		0.3		0.1	
Rates, excluding water rates	read zazasiek		3.6		5.4	
Gross value added at factor cost			122.9		165.6	
Gross value added at factor cost per head	£.		12,402		14,237	

⁽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 totals for the industry.

Capital expenditure, 1986
All United Kingdom establishments classified to each Activity Heading within the industry
All Office thingsom establishments observed to each richter, richten, the master,

		3211		212	beauto elacande de mode f million U HA
Land and buildings					
New building work		118 .			
Land and existing buil	ldings				
Acquisitions		1.8	1 3	3.3	
Disposals		72,402		•	
Net		2.2		5.9	
Plant and machinery					
Acquisitions		8.8 7.4	3	2.9	
Disposals		0.8		0.2	
Net		6.6	3	2.7	
Vehicles					
Acquisitions		2.8	5 8/1	0.4	
Disposals		1.3	to, seemily	0.2	
Net		1.5	and the same	0.2	
Total net capital ex	penditure	10.3	3	8.8	
N N 1000	A PERSON NAMED IN	The Board Seal section	A 3.8. 3		Mat capital expenditure as a percentage of uross value added

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	3211	3212	Yors
10a Increase during year			
Materials, stores and fuel	-2.6	0.4	
Work in progress	0.8	-3.0	
Goods on hand for sale	1.9	-0.8	
Total	0.1	-3.4	
MANAGE DIGGIGIE	Hanng an	CHARLES CONTRACTOR	MORREYS
10b Value at end of year			
Materials, stores and fuel	25.9	34.8	
Work in progress	24.0	42.9	
Goods on hand for sale	46.7	68.5	
Total	96.7	146.3	
New!	First Chedom by	INTESTACE	

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

TABLE 11

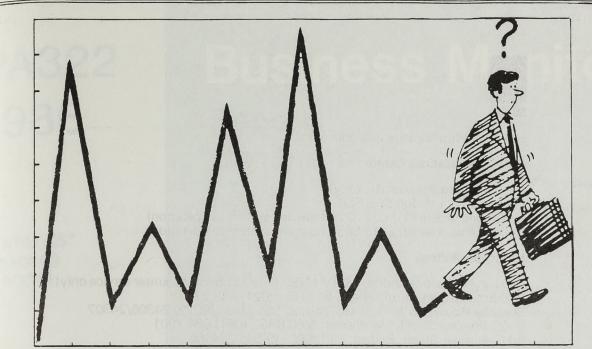
Operating ratios, 1986

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

ALCOHOLOGICAL CONTRACTOR OF THE CONTRACTOR OF TH				equibited has bee
	Unit	3211	3212	
Gross output per head	£	36,668	66,044	
Net output per head	£	15,745	17,390	
Gross value added per head	£	12,402	14,237	
bents' chen alpie				
Gross value added as a percentage of gross output	%	34	22	
Ratio of gross output to stocks		3.8	5.3	
Wages and salaries as a percentage of gross value added	%	65	74	
rogress and goods on hand for sales				
Ratio of operatives to administrative, technical and clerical employees		1.8	2.8	
Wages and salaries per operative	£	8,016	9,766	
Wages and salaries per administrative,				
technical and clerical employee	£	9,486	12,537	
Net capital expenditure per head	£	1,042	3,333	
Market Balls, Istories, and Mark				
Net capital expenditure as a percentage of gross value added	%	8	23	

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