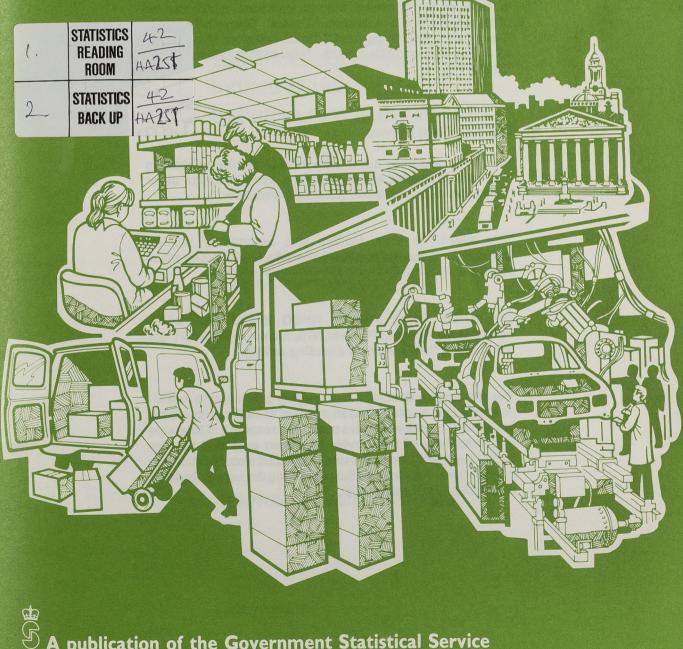
# **Business Monitor**

# PA343 1990

# **Report on the Census of Production**

Electrical equipment for industrial use, and batteries and accumulators



A publication of the Government Statistical Service

#### **BUSINESS MONITORS**

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# PA343



A publication of the Government Statistical Service

**Report on the** 

**Census of Production** 

# Electrical equipment for industrial use, and

batteries and accumulators Presented by the Chancellor of the Exchequer to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

1990

### **CENTRAL STATISTICAL OFFICE**

London: HMSO

# **BUSINESS MONITOR**

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11100	brooms
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Railway and tramway vehicles Cycles and motor cycles

Miscellaneous vehicles

Organic oils and fats

apparatus

appliances

equipment

products

Fish processing

Aerospace equipment manufacturing and repairing

Measuring, checking and precision instruments and

Medical and surgical equipment and orthopaedic

Optical precision instruments and photographic

Slaughtering of animals and production of meat and by-

Clocks, watches and other timing devices

Preparation of milk and milk products Processing of fruit and vegetables

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## PA343 ELECTRICAL EQUIPMENT FOR INDUSTRIAL USE, AND BATTERIES AND ACCUMULATORS

The information in this report relates to businesses classified to the Electrical equipment for industrial use, and batteries and accumulators industry, Group 343 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

3432 Batteries and accumulators

- 1. Primary batteries
- 2. Secondary batteries

#### Alarms and signalling equipment 3433

Manufacture of electric or electronic sound and visual signalling equipment, for example, burglar alarms, fire alarms, etc. Traffic signalling equipment for road, rail, and inland waterways is included.

Electrical equipment for motor vehicles, cycles and aircraft 3434

Manufacture of lighting, starting and ignitions sets, dynamos, dashboard instruments (electric), traffic indicators and similar electrical equipment including windscreen wipers and defrosting equipment. Manufacture of specialised electrical equipment for rail vehicles and vessels is classified to Group 342. Manufacture of accumulators and batteries is classified to Group 343 and of filament lamps to Group 347. Manufacture of speedometers and tachometers is classified to Group 371.

Electrical equipment for industrial use, not elsewhere specified 3435

Manufacture of electric welding and brazing equipment, particle accelerators, electro-chemical equipment, electro-physical machines and electrical carbon or graphite articles. Manufacture of metal-working machine tools incorporating physico-chemical processes (spark erosion, ultrasonic, laser, etc.) is classified to Group 322. Manufacture of gas welding and cutting machines and torches is classified to Group 328. Manufacture of commercial electric catering equipment for food preparation and for cooking is included. Industrial food and drink processing equipment is classified to Group 324. Commercial refrigerating machinery and the manufacture of lasers is classified to Groups 328 and 373 respectively.

For a full description of the 1980 classification see Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £4.25.

> 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

1. These notes give basic information to help with the interpretation of tables in this Industry Report. More general information about the Census is given in a separate Business Monitor - Report on the Census of Production, Introductory Notes (PA 1001).

2. Since 1980, Censuses have been conducted on the Standard Industrial Classification Revised 1980 (SIC(80)). The Standard Industrial Classification exists to promote uniformity and comparability in the official statistics of the United Kingdom. The SIC(80) is the result of an attempt to align the United Kingdom classification with the General Industrial Classification of Economic Activities within the European Communities (NACE). It is based on activity rather than commodities produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £4.25.

#### REPORTING UNIT

3. From the earliest censuses of production until that for 1986 the reporting unit to the census was the establishment. This was defined as the smallest unit which could provide the full range of data required for an economic census. Establishments were asked, where possible, to exclude from their returns to the census any non-production activity.

4. In 1987, for a number of administrative and statistical reasons, a new system of company-based reporting was introduced. Under the new system the reporting unit to the census is, generally, the company, but there are some exceptions. These arise, for example, for large mixed activity companies which are asked to make separate returns to the census for each of their production activities on an establishment basis. Throughout this monitor this mixture of reporting units are referred to as "businesses". These businesses are no longer asked to exclude non-production activities.

5. In practice, since most businesses, both before and after the change, reported for the company as a whole, little difference to the main economic series has resulted from the change.

6. For most businesses, the returned data are appropriate to a single activity heading of SIC(80) and fall within a single geographical region. Where information covers a mixture of activities, the business is classified according to the main activity. Where the business operates at a number of different addresses then, in order to enable regional data to be compiled, separate information on employment and capital expenditure is sought for each address.

#### THE REGISTER

7. A register of businesses throughout the United Kingdom is held on the CSO computer and provides the basis for CSO inquiries. For each business the register contains identification particulars and information about its eligibility for inclusion in an inquiry, its relationship with other businesses 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 - Size analyses of United Kingdom businesses.

8. The Annual Census and other CSO inquiries provide a major source of information for checking the register and updating employment data. Where businesses do not make returns to these inquiries, estimates of employment are imputed from VAT turnover. For businesses which have an imputed employment of 11 or more, the estimates are checked by means of register proving forms. For businesses on the register making returns to the Quarterly or Annual Sales Inquiries, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. For other businesses the classification is obtained either from VAT sources or from the register proving forms. Estimates of employment made by the CSO and the Department of Employment differ because they are derived from two separate inquiries and use different procedures and employment definitions.

#### COVERAGE

9. The Census covers United Kingdom businesses engaged in industrial production, ie mining and quarrying, manufacturing, construction, and gas, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Businesses in the Channel Islands and the Isle of Man are excluded.

10. Under the sampling arrangements agreed for the 1990 Census, forms were despatched to all businesses with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for businesses in the 20 to 49 and 50 to 99 employment size bands. It was necessary to increase the sample in those industries where there were few businesses in the sample size band or where response in earlier years was poor. About 16,800 forms were despatched in the United Kingdom for the 1990 Census.

PERIOD COVERED 11. Businesses were asked to make returns for the calendar year 1990 but, where this was not possible, returns for business years ending between 6 April 1990 and 5 April 1991 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

## ESTIMATION

ons, a unsatisfactory return or the Estimates are also m pany, smaller businesses. large

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

14. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on the level of response. The extent to which businesses making satisfactory returns account for the total employment of any industry is shown as a percentage in footnote (a) to table 1. Thus the accuracy of the data published in an Industry Report where 95 per cent of the employment in the industry is covered by the returns made will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.

15. Additionally, the extent to which individual headings in an Industry Report are related to employment should be taken into account in assessing the accuracy of estimated data. 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 IN DERTAKINGS

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"The following provisions shall have effect with respect to any r e p o r t, 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 onthat 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 deducted from the total disclosed."

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

#### SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UN-

16. Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states that:

17. 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 1990

18. The 1990 Census reverted to a 'slimline' format with fewer businesses being required to complete forms than in 1989. The questions asked in 1989 on road transport costs and on postal and telecommunications costs were dropped but additional questions were included on capital and current costs associated with pollution abatement.

#### SYMBOL SUSED

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

- not available
- nil or less than half the final digit shown
- \* information suppressed to avoid disclosure R revised

#### BOUNDING OF FIGURES

20. 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

21. 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

22. 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 return related. From 1988 contributors were asked to include the value of assets acquired as lessees under finance leasing arrangements. 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. 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 USE WITHIN THE BUSINESS by its own staff are included. The value of any assets acquired in taking over an existing business is 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

23. 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 NEWBUILDING WORK

24. 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

25. 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 USE WITHIN THE BUSINESS 26. This represents the value of all work of a capital nature carried out during the year by the staff of, and for use in, the businesses covered by the returns

### COST OF INDUSTRIAL SERVICES RECEIVED

27. This includes amounts payable to other organisations for work done on materials supplied by the business 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

28. Up to 1987 contributors were asked to include annual payments for assets acquired on a finance leasing basis. From 1988 they were asked to include the total value of such assets as capital expenditure during the year in which they were acquired. The cost of non-industrial services received 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 and on materials and fuel imported are excluded.

#### EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC.

29. 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

30. 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 (ie people who worked in their own homes on materials supplied by the business) and casual employees such as jobbers are excluded. The average number of employees returned by individual businesses 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

31. 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 except operatives.

#### b. OPERATIVES

32. 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 canteen are included.

c. WORKING PROPRIETORS

33. 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

working hours and directors who worked in the business but did not receive a definite wage, salary or commission. Part-time Directors naid by fee only and directors who received a definite wage, salary or mission are excluded.

#### THTERPRISE

14. This is defined as one or more businesses under common ownership or control.

#### GROSS OUTPUT

35. This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes during the year of WORK IN PROGRESS AND FOR SALE.

#### GROSS VALUE ADDED AT FACTOR COST

36. 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 37. This is calculated by dividing GROSS VALUE ADDED AT FACTOR

COST by total EMPLOYMENT.

#### NET CAPITAL EXPENDITURE

38. 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

39. This is 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 MER-CHANTING 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

40. This is calculated by dividing NET OUTPUT by total EMPLOY-MENT

#### NON-INDUSTRIAL SERVICES RENDERED

41. 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

42. These ratios are calculated using industry totals, ie including the estimates for businesses 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 MER-CHANTING OR FACTORING

43. These include the cost of raw materials, components, semi-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 business or given out to others, for the production of machinery or other capital items used in the business, and materials used 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 the business's 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 cit plus duty, if applicable. Transfers of goods from other departments of the business not covered by the return are included at the estimated selling value recorded by the other departments

**REMUNERATION PAID TO OUTWORKERS** 44. This represents amounts paid to outworkers, ie people who do work in their own homes generally on a piece-work basis, whose names appear on the payroll. Amounts paid to outworkers by subcontractors are included in the COST OF INDUSTRIAL SERVICES RECEIVED Estimates are not made for remuneration of outworkers for businesses not completing Census returns.

# SALES OF GOODS PRODUCED 45. This represents sales of goods during the year, whether or not they

#### STOCKS

include any duty payable but exclude VAT.

## WAGES AND SALARIES

47. This represents amounts paid during the year to ADMINISTRA-TIVE TECHNICAL AND CLERICAL EMPLOYEES and to OPERA-TIVES. 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 IN-SURANCE CONTRIBUTIONS ETC, are excluded

48. This includes amounts charged for work carried out including that done by sub-contractors on customers' materials and amounts charged for materials supplied in the course of such work. Industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations is also included. 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 49. 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.

were produced in the year of the return. It also includes sales of goods made from materials given out to other firms or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', ie the amount charged to customers whether values 'ex-works'or 'delivered' less VAT, trade discounts, agents' commissions etc and allowances on returned goods. Where products attract Excise duty, the value includes duty if the goods are sold 'duty-paid', but excludes it if they 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 a business to departments not covered by the return (including other businesses in the same enterprise group) are treated as sales, valued as if sold to an independent purchaser.

46. This represents the value of goods on hand for sale, including goods for merchanting or factoring and of materials, stores and fuel held by businesses, whether held in the United Kingdom or abroad. Values

#### WORK DONE AND INDUSTRIAL SERVICES RENDERED

Output and costs, 1986-1990 All United Kingdom businesses classified to the industry (a)

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unhasou, in contra contrata a ciplus	Unit	1986	1987	1988	1989	1990
pulles commisses international in and	terrared bank	1.070	1 206	1, 439	1, 458	1, 376
Enterprises	Number	1, 379	1, 396		and all and the solution	baelebulahdi
Businesses	ala d <b>"</b> pictula "hina Ala da anana anana	1, 436	1, 444	1, 491	1, 502	1, 420
Sales of goods produced	£ million	1, 664. 5	1, 828. 2	1, 959. 8	2, 193. 2	2, 339. 7
Vork done and industrial services endered	500 005 H 0/F	89. 4	77. 7	115. 8	161.6	174. 1
apital goods produced for use within he business	"	4.8	3. 9	3. 3	2.6	1. 9
Ion-industrial services rendered	no on one alternation	32.6	30. 2	6. 9	13. 9	21. 1
boods merchanted or factored	n, a <b>n</b> asy edit	229. 2	268. 7	178.9	246.0	209. 3
Total sales and work done		2, 020. 5	2, 208. 7	2, 264. 7	2, 617. 3	2, 746. 1
ncrease during the year, work in rogress and goods on hand for sale		27. 4	4. 9	6. 4	16.9	2.6
Gross output	Group Hand Harris	2, 047. 9	2, 213. 6	2, 271. 1	2, 634. 2	2, 748. 7
Purchases of materials for use in pro- luction, packaging and fuel		799. 1	877. 3	944. 6	1, 020. 9	1, 115. 4
urchases of goods for merchanting or actoring	lan ann chàin Chuirte ann a	164. 1	190. 0	134. 9	178.0	159. 4
ncrease during the year, stocks of naterials, stores and fuel		0.8	13. 0	0.6	6. 4	-3. 3
ost of industrial services eceived		57. 9	59. 7	56.5	107. 0	112.6
Net output	н	1, 027. 6	1, 099. 6	1, 135. 6	1, 334. 6	1, 358. 0
otal employment	Thousand	61.6	60. 5	57.0	56. 3	56.8
Net output per head	£	16, 685	18, 187	19, 921	23, 723	24, 038
ost of non-industrial services eceived						
Hire of vehicles, plant and machinery	£ million	18.6	17.0	24. 4	27. 9	28. 2
Rents of industrial and commercial buildings		13. 9	11.4	12. 4	19. 8	25.8
Commercial insurance premiums		8. 5	9.0	11. 2	13.6	13. 3
Bank charges		1.5	1.5	1.6	2. 1	2.
Other non-industrial services	"	122.4	145. 3	151.4	169. 4	164. 6
icensing of motor vehicles	andra ons	0.9	0. 8	0. 7	0. 7	0. 7
ates, excluding water rates	nitos ("Lasti esita	17.4	19.6	18. 0	20. 2	22. 3
Gross value added at factor cost	noo oo belda " haadiinaaaba	844. 5	895. 0	915. 8	1, 080. 8	1, 100. 8
Gross value added at factor cost per head	£	13, 711	14, 803	16, 066	19, 211	19, 487

(a) Satisfactory returns accounted for 77 per cent of employment within the industry in 1990.

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TABLE 2

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#### Capital expenditure, 1986-1990 (a) All United Kingdom businesses classified to the industry

(a) water bai

						£ million
daries (0):80% estas allo Nigluo hos	1986	1987	1988	1989	1990	nanova tangt oughow bra ta asomolea
Land and buildings						
New building work	3.4	2. 9		13.8	10. 3	
Land and existing buildings						
Acquisitions	2.4	3. 6	14. 6	18.5	4. 7	
Disposals	2. 2	5. 1	10. 3	2. 9	3. 2	
Net	3. 5	1.4	8. 9	29. 4	11.8	
Plant and machinery						
Acquisitions	59.4	63. 3	84. 7	109. 2	101.3	
Disposals	9. 1	4. 2	4. 2	10.0	5.6	
Net	50.3	59.0	80. 5	99. 2	95. 7	
Vehicles						
Acquisitions	8. 2	6. 7	9.4	12.4	10. 8	
Disposals	4.4	2. 8	3.1	4.9	2.9	
Net	3.9	3. 9	6.3	7.5	7.9	
Total net capital expenditure	57. 7	64. 3	95. 7	136. 1	115. 4	

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements. The total value of these assets is estimated to be £8.5 million for 1990.

#### TABLE 3

Stocks and work in progress, 1986-1990 All United Kingdom businesses classified to the industry

						£ million
	1986	1987	1988	1989	1990	Value at end of 1990
		Inc	crease during y	ear		
Materials, stores and fuel	0.8	13. 0	0.6	6. 4	-3.3	144. 2
Work in progress	16.8	-3. 9	5.8	10. 1	-8.0	178.5
Goods on hand for sale	10.6	8. 8	0.6	6. 8	10.6	138. 4
Total	28. 2	17. 9	7.0	23. 3	-0. 7	461. 2

his but were estimated for the industry at £86 million. The winned wive a statimated for the industry at £86 million. The wive a second.

of pasets acquired under finance leasing arrangements - see Table 2.

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TABLER

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1990

All United Kingdom businesses classified to the industry (a)

Size group	Busin- esses	Enter- prises (b)	Employment			Wages and s	alaries (c)		
				1.439	1, 514	1,481	1,6	V.A	Land and pr
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives		Administr technical clerical	
			proprietors		1.2	Total	per	Total	Der
						2.5	head		head
							13	9	an in
diada distantina s	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
	1 10 10 10 10 10 10 10 10 10 10 10 10 10		0.01						
1–9	996	995	2.8)						
10-19	136	136	2. 0)	8.5	4. 7	80. 1	9, 476	72.4	15, 359
20-49	127	125	4. 1)						
50-99	66	64	4. 7)				1, 020		
100-199	29	28	4. 2	2.7	1.5	23. 9	8, 993	23.8	15, 978
200-299	18	16	4. 5	2.8	1.7	26. 5	9, 546	25. 1	14, 793
300-399	15	14	5. 2	3. 3	1. 9	31. 2	9, 374	28.4	15, 206
400-499	7	6	3. 3	2. 1	1.2	24. 1	11, 362	17.1	13, 875
500-749	12	11	7.3	3.8	3. 5	44.3	11, 707	58. 2	16, 638
750-999	6	6	4. 9	2.5	2.4	35.0	13, 980	41.2	17, 250
1, 000-Plus	8	7	13. 5	10.4	3. 1	122. 3	11, 721	52.9	17, 246
à									
		1010	888						
Total	1, 420	1, 376	56.5	36. 1	20.0	387.4	10, 743	319.0	15, 99

(a) Businesses employing fewer than 20 persons are not required to complete census returns. Because of this, data for these businesses 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 businesses shown in each size group. Because an enterprise may own businesses 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 £96 million. The remuneration of outworkers on returns received - also excluded from the table - was £439 thousand.

(d) Net capital expenditure includes the value of assets acquired under finance leasing arrangements - see Table 2.

(e) Gross value added data relate to businesses employing 1-199.

	Percentage of		20101	reentage of total re
Total sales and work done	Gross output	Net output	yment	Gross value added at factor cost
		Total	per head	Total
	S .0	C million	£	- C million
£ million	£ million	£ millior		£ million
	1.3	001.0		12.0 G 24
588.9	593.0	281.6	20, 619	(e)
206. 5	206. 1	88. 2	21, 233	292. 5(e)
207. 4	205.6	102.0	22, 822	82. 6
210. 0	209. 4	9 109.2	21, 017	85. 5
163. 9	163. 4	86. 2	25, 741	69. 9
418.0	421.3	221. 2	30, 397	185. 6
325. 7	332. 4	81 194. 5	39, 766	157. 6
625. 7	617.5	275. 2	20, 378	227. 1
2, 746. 1	2, 748. 7	1, 358. 0		
AND CALLS WARE A	a years made s		int pat corput mi interes of nat co	Bit for addreases

ide as capital expenditure the value of assets acquired under finance

Net capital Total stocks expenditure and work in (d) progress at end of year per head £ £ million £ million (e) 21.3 104.9 16, 433(e) 7.6 36.7 7.6 38.0 18, 476 16, 467 9.3 46.7 20,890 9.5 27.6 25, 508 14.1 75.0 32, 229 18.1 51.7 16,818 27.9 80.5

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#### 19, 487

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Wagae and salaries per operative Wages and calaries per administrative. roomical and clarical employee Not capital expanditure per houd (a)

461.2

ia) From 1958 constitutors ware usked to in iossing sviangements - see Table 2.

Percentage analysis of twelve-month periods covered by returns received for the 1990 Census by number of returns and total employment

1990   April 6-30   2.7   0.5     May   2.0   1.8     June   6.0   2.0     July   8.7   14.2     August   2.7   1.4     September   8.7   10.1     October   1.3   0.2     November   1.3   0.6     December   40.3   42.4     1991   January   2.0   1.3     February   2.7   0.4     1 March - 5 April   21.5   25.1	Accounting	g year ended		Pe re	ercentage of tota ceived	l returns		Percentag employme		n and and a start
May   2.0   1.8     June   6.0   2.0     July   8.7   14.2     August   2.7   1.4     September   8.7   10.1     October   1.3   0.2     November   1.3   0.6     December   40.3   42.4     1991   January   2.0   1.3     February   2.7   0.4     1 March - 5 April   21.5   25.1	1990	April 6-30			2.7		output	0	. 5	show bha
June     6.0     2.0       July     8.7     14.2       August     2.7     1.4       September     8.7     10.1       October     1.3     0.2       November     1.3     0.6       December     40.3     42.4       1991     January     2.0     1.3       February     2.7     0.4       1 March - 5 April     21.5     25.1		April 0 00						1	. 8	
July 8.7 14.2   August 2.7 1.4   September 8.7 10.1   October 1.3 0.2   November 1.3 0.6   December 40.3 42.4   1991 January 2.0   February 2.7 0.4   1 March - 5 April 21.5 25.1					6.0			2	. 0	
July 0.7   August 2.7   September 8.7   October 1.3   November 1.3   December 40.3   1991 January   January 2.0   February 2.7   1 March - 5 April 21.5								14	2	
August 2.7   September 8.7   October 1.3   November 1.3   December 40.3   1991 January   January 2.0   February 2.7   1 March - 5 April 21.5   ZAU		July								
September     0.7       October     1.3     0.6       November     1.3     0.6       December     40.3     42.4       1991     January     2.0     1.3       February     2.7     0.4       1 March - 5 April     21.5     25.1		-						10		
October     1.3     0.6       November     1.3     42.4       1991     January     2.0     1.3       February     2.7     0.4       1 March - 5 April     21.5     25.1		September			8. /			10	••	
November     1.3     0.0       December     40.3     42.4       1991     January     2.0     1.3       February     2.7     0.4       1 March - 5 April     21.5     25.1		October			1.3			0	. 2	
December 40.3   1991 January 2.0   February 2.7 0.4   1 March - 5 April 21.5 25.1		November			1.3			C noilling	. 6	
January 2.0 1.3   February 2.7 0.4   1 March - 5 April 21.5 25.1		December			40.3			42	. 4	
February     2.7     0.4       1 March - 5 April     21.5     25.1       TABLE 6     Operating ratios, 1986-1990     Operating ratios, 1986-1990	1991	lanuary			2. 0				. 3	
1 March - 5 April 21. 5 25. 1					2.7			8, 470, 883 (	). 4	
TABLE 6 Operating ratios, 1986-1990					21. 5			25	5. 1	
TABLE 6 Operating ratios, 1986-1990	1010.00	100.5		MP23 31 3	1613 5057	1920 I.C.	78.88	A 093 205	29.0	a with s
TABLE 6 Operating ratios, 1986-1990	THE DEN									
TABLE 6 Operating ratios, 1986-1990										
TABLE 6 Operating ratios, 1986-1990										
TABLE 6   Operating ratios, 1986-1990										
Operating ratios, 1986-1990	TABLE 6									
	Operating									
All United Kingdom businesses classified to the industry	of a contraction of the		es cla							

	Unit	1986	1987	1988	1989	1990
Gross output per head	£	33, 249	36, 613	39, 840	46, 823	48,656
Net output per head	£	16, 685	18, 187	19, 921	23, 723	24, 038
Gross value added per head	£	13, 711	14, 803	16, 066	19, 211	19, 487
Gross value added as a percentage of gross output	%	41	40	40	41	40
Ratio of gross output to stocks		5.0	5. 4	5. 5	5. 7	.6. 0
Vages and salaries as a percentage of pross value added	%	64	64	65	60	64
latio of operatives to administrative, echnical and clerical employees		1.7	1.7	1.6	1. 7	1.8
Vages and salaries per operative	£	7, 755	8, 340	9, 337	10, 046	10, 743
Vages and salaries per administrative, echnical and clerical employee	£	10, 785	11, 516	12, 395	14, 170	15, 992
vet capital expenditure per head (a)	£	937	1,064	1, 678	2, 419	2,042
Net capital expenditure as a percentage of gross value added (a)	%	7	7	10	13	11

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see Table 2.

#### TABLE 7

PA343

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1990 All United Kingdom businesses classified to the industry

Area		Total employm (a)	ent	Net cap expend (b)		Net out (c)	out	Gross v added a factor c (c)	t
375 Lind one existent B Alternitik S	919.8 soniblind ( 22.9	Thousand	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdon
Standard regions o	f England								
North		1.8	3. 2	2. 2	1. 9	37. 9	2.8	30. 8	2.8
Yorkshire and									
Humberside		2.9	5. 2	6. 9	5.9	84. 0	6. 2	70.6	6.4
East Midlands		3. 3	5.9	10. 0	8. 7	70. 7	5. 2	57.4	5. 2
East Anglia		0.6	1.1	0.8	0. 7	13. 2	1.0	10.6	1.0
South East		16. 7	29.6	31.2	27. 1	440. 3	32. 4	351.7	31.9
South West		5. 1	9. 0	6. 7	5.8	112.5	8.3	86. 9	7.9
West Midlands		9. 4	16. 7	24. 3	21.0	188. 0	13. 8	151.9	13.8
North West		11. 0	19. 4	20. 9	18. 1	274. 9	20. 2	229. 4	20. 8
England	Fedgenditure	50. 9	90. 1	103. 0	89. 3	1, 221. 6	90. 0	989. 3	89. 9
Wales		3. 2	5.6	8.1	7.0	83. 1	6. 1	67.8	6. 2
Scotland		2.3	4. 0	4.0	3. 5	50. 1	3. 7	41. 2	3. 7
Great Britain	22.2	56. 3	99. 7	115. 1	99. 8	1, 354. 7	99. 8	1, 098. 2	99.8
Northern Ireland		0. 2	0. 3	0. 3	0. 2	3. 3	0. 2	2. 6	0. 2
United Kingdom	progress, 19 <del>-</del> butinesses cl 7 ,5	56. 5	100. 0	115. 4	100. 0	1, 358. 0	100. 0	1, 100. 8	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. The value also includes assets acquired under finance leasing arrangements - see Table 2.

(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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Output and costs, 1990 All United Kingdom businesses classified to each Activity Heading within the industry

	- Contraction	0.400	 3433	3434	3435
	Unit	3432	 		
Enterprises(a)	Number	201	272	505	404
Businesses		206	284	519	411
Sales of goods produced	£ million	549. 7	495. 2	919.8	375.0
Work done and industrial services rendered	of Minited Kinadom	7.7	132. 1	22.3	11.9
Capital goods produced for use within the business		0. 2	0. 7	0. 9	enoigen bre 0. 1
Non-industrial services rendered	"8.1	9.9	4.9	3.3	3.0
Goods merchanted or factored		34. 3	24.0	58.0	92.9
Total sales and work done		601.8	657.0	1, 004. 4	482.9
Increase during the year, work in	0.8.7	10.0	0.4	1.6	-0.8
progress and goods on hand for sale	T 20,7	1.5	0.4		-0. 8 482. 1
Gross output	" t 18's 5	603. 3	657.3	1, 006. 0	402.1
Purchases of materials for use in pro- duction, packaging and fuel	<b>.</b>	247.6	228. 4	452.8	186.5
Purchases of goods for merchanting or	21.0	26.6	15.8	45. 7	71.3
factoring		20.0	0.11		
Increase during the year, stocks of materials, stores and fuel		-5.5	3.4	0.2	-1.5
Cost of industrial services		103. 0	07.0	36. 7	8.1
received	2.0"	40.1	27.8		214.7
Net output	3.6"	283. 6	388. 7	471.0	8.5
Total employment	Thousand	9.6	16. 1	22. 2	
Net output per head	£	29, 525	24, 072	21, 211	25, 155
Cost of non-industrial services received					
Hire of vehicles, plant and machinery	£ million	6. 6	12.7	4. 7	moberil 4.1
Rents of industrial and commercial buildings	"	4.6	10.3	4.9	6.0
Commercial insurance premiums	·âme employe	2.5	4.4	4.0	2.4
Bank charges	sting buildings	0.5	0.4	0.5	0.7
tioned by non-new methods to standing		39. 8	40.6	56.3	28.0
Other non-industrial services	an estimate o ligne ti, empli	0. 2	0.3	0.1	0.1
Licensing of motor vehicles	dresses locate "	5.3	4.0	8. 1	4.9
Rates, excluding water rates			315. 9	392. 3	168.5
Gross value added at factor cost		224. 1	510. 8		
Gross value added at factor cost per head	£	23, 333	19, 564	17, 667	19, 747

(a) The count of enterprises shown in each column represents the number of enterprises owning the businesses shown for each activity heading. Because an enterprise may own businesses in more than one activity heading, the sum of the enterprise counts may exceed the total for the industry.

TABLE 9

Capital expenditure, 1990 (a) All United Kingdom businesses classified to each Activity Heading within the industry

		3432	3433	
Land and building	ngs			
New building v	vork	0. 9	5. 7	
Land and exist	ing buildings			
Acquisitions		1.8	0. 9	
Disposals		0. 6	1.8	
Net		2. 1	4. 8	
Plant and machi	nery			
Acquisitions		17. 8	28.0	
Disposals		1. 8	1. 8	
Net		16. 0	26. 2	
Vehicles				
Acquisitions		3. 0	4. 1	
Disposals		0. 7	1. 2	
Net		2. 3	2.9	
Total net cap	oital expenditure	20. 4	34.0	

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see Table 2.

#### TABLE 10

Stocks and work in progress, 1990 All United Kingdom businesses classified to each Activity Heading within the industry

3432	3433	
-5. 5	3. 4	
-2. 1	-2. 1	
3. 6	2.5	
-3.9	3. 8	
	-5. 5 -2. 1 3. 6	-5. 5 3. 4 -2. 1 -2. 1 3. 6 2. 5

10b Value at end of year		
Materials, stores and fuel	22. 0	42. 3
Work in progress	22. 8	58. 3
Goods on hand for sale	36. 0	26.0
Total	80. 7	126. 7

alactified to a	£ million	
3434	3435	
0. 1	3. 5	
1.3	0. 7	
0.4	0.5	
1. 1	3. 7	
45. 7	9.8	
1. 7		
44.0	9. 5	
1. 9	1.7 vinetae bea esgaW	
	0. 4	
1.4	1. 3	
46. 5	14. 5	
02034333	Net capital expenditure as a pi	

		£ million
3434	3435	
0. 2	-1.5	
0.8	-4. 6	
0. 7	3. 8	
1.8	-2. 3	
Webservers To	nan -	
52.9	27. 0	
65. 7	31.7	
41.6	34. 8	
60. 2	93. 6	
and the second	And the state of t	

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Operating ratios, 1990

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

		leine er biede		3999	275	202	foliud bng he
		Unit	5.0	3432	3433	3434	343
Gross output per head		£		62, 819	40, 708	45, 300	56, 49
Net output per head		£		29, 525	24, 072	21, 211	25, 15
Gross value added per head		£		23, 333	19, 564	17, 667	19, 74
Gross value added as a percentag gross output	e of	%		37	48	39	idosin bia 3
Ratio of gross output to stocks				7.5	5. 2	6. 3	5.
Wages and salaries as a percentag gross value added	ge of	%		55	68	67	E
Ratio of operatives to administrati technical and clerical employees	ve,			1.7	1. 7	2. 1	1.
Wages and salaries per operative		£		10, 754	11, 582	10, 043	11, 12
Wages and salaries per administratechnical and clerical employee	ative,	£		16, 692	16, 271	15, 799	15, 18
Net capital expenditure per head (	a)	£		2, 122	2, 103	2, 094	1, 7(
Net capital expenditure as a perce of gross value added (a)	entage	%		9	11	12	

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see Table 2.

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