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Business Monitor

Report on the PA412 Census of Production

1990

Slaughtering of animals and production of meat and by-products

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BUSINESS MONITORS

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PA412

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1990

Slaughtering of animals and production of meat and by-products

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)

CENTRAL STATISTICAL OFFICE

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The information in this report relates to businesses classified to the Slaughtering of animals and production of meat and by-products industry, Group 412 in the Standard Industrial Classification Revised 1980. The Industry Group covers the following Activity Headings:-

- 4121 Slaughterhouses**
Slaughtering of animals for meat for human consumption. Further processing such as removal of bones, offals, glands, etc. or the temporary preservation of hides and skins when undertaken in the slaughterhouse is included. Also included in this heading is the preparation of cuts of fresh meat or edible offals (including subsequent chilling or freezing) in establishments not classifiable to Division 6 (the distribution industry). Slaughtering, etc. of poultry is classified to heading 4123. The processing of animal by-products outside slaughterhouses and the slaughtering or processing of animals unfit for human consumption is classified to heading 4126.
- 4122 Bacon curing and meat processing**
1. Bacon and ham
Production of bacon, ham and processed pigment products. Pre-cooking or putting into sealed packs is included but canned products are classified to sub-division 3 of this heading.
2. Frozen meat products
Freezing of prepared meat products eg complete meat-based meals, meat pies and puddings, pastes, sausagemeat, etc.
3. Other processed and preserved meats
- 4123 Poultry slaughter and processing**
1. Poultry slaughter
Slaughtering poultry and game birds. Dressing and further preparation (eg quartering, chilling or freezing) in the same establishment is included. Similar work done in establishments not slaughtering birds themselves is classified to sub-division 2 of this heading.
2. Poultry meat products
Processing of poultry meat products (including dressing and quartering fowl in establishments not engaged in slaughtering) such as preparing meals based on poultry, pastes, breasts, etc. either fresh or packeted, canned or frozen. Products containing mixed ingredients of poultry and other meats are classified to heading 4122.
- 4126 Animal by-product processing**
1. Fats and greases
Recovery and rendering of fats and greases from terrestrial animals. Hydrogenation of fats is classified to heading 4116/3. Fat splitting and other chemical treatment are classified to heading 2563.
2. Processed guts and offals
Processing and preparing guts and offals (including bones and blood) such as the manufacture of sausage skins, tripe, dressing, etc.
3. Slaughtering other than for human consumption and other processing of animal by-products
Production of animal by-products including bone products. Meat meal, hides and skins, inedible poultry by-products, processing fallen animals and slaughter other than for human consumption are included.

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
INTRODUCTION

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 (PA1001).

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

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 smaller businesses.

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 INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

16. 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 deducted from the total disclosed."

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.

SYMBOLS USED

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

ROUNDING 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 NEW BUILDING 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

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

ENTERPRISE

34. 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 GOODS ON HAND 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 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

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

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 MERCHANTING 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 draw-

backs, 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 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 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.

STOCKS

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 include any duty payable but exclude VAT.

WAGES AND SALARIES

47. 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

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.

TABLE 1

PA412

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

	Unit	1986	1987	1988	1989	1990
Enterprises	Number	1,687	1,670	1,487	1,432	1,362
Businesses	"	1,851	1,793	1,610	1,550	1,468
Sales of goods produced	£ million	6,198.4	6,627.1	7,231.6	7,881.4	8,331.1
Work done and industrial services rendered	"	34.1	19.7	25.4	21.7	31.9
Capital goods produced for use within the business	"	0.9	2.0	1.6	1.6	2.1
Non-industrial services rendered	"	10.3	14.1	11.1	13.3	18.4
Goods merchant or factored	"	306.5	367.1	361.1	396.8	341.4
Total sales and work done	"	6,550.2	7,030.0	7,630.9	8,314.8	8,724.9
Increase during the year, work in progress and goods on hand for sale	"	19.2	32.3	6.1	7.2	25.2
Gross output	"	6,569.4	7,062.4	7,636.9	8,321.9	8,750.1
Purchases of materials for use in production, packaging and fuel	"	4,573.7	4,841.8	5,273.8	5,781.0	5,977.1
Purchases of goods for merchanting or factoring	"	260.7	311.9	309.4	333.9	281.4
Increase during the year, stocks of materials, stores and fuel	"	5.3	11.2	15.3	20.2	4.3
Cost of industrial services received	"	84.2	95.2	98.8	107.8	116.7
Levies payable	"	24.7	34.3	27.5	32.8	27.1
Less allowances receivable	"	44.5	47.5	47.9	35.3	36.4
Net output	"	1,676.0	1,837.9	1,990.7	2,121.9	2,388.4
Total employment	Thousand	109.4	113.6	118.5	117.7	116.8
Net output per head	£	15,314	16,182	16,803	18,030	20,457
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	40.8	40.2	40.5	41.6	47.0
Rents of industrial and commercial buildings	"	8.2	8.8	11.4	14.1	12.3
Commercial insurance premiums	"	16.0	19.4	21.5	23.2	25.7
Bank charges	"	3.6	3.1	4.2	4.2	4.0
Other non-industrial services	"	259.8	259.9	300.7	310.1	356.9
Licensing of motor vehicles	"	3.9	3.9	3.8	3.8	3.5
Rates, excluding water rates	"	19.6	20.0	23.4	25.2	24.6
Gross value added at factor cost	"	1,324.1	1,482.6	1,585.3	1,699.9	1,914.4
Gross value added at factor cost per head	£	12,099	13,054	13,382	14,444	16,397

(a) Satisfactory returns accounted for 85 per cent of employment within the industry in 1990.

TABLE 2

PA412

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

	£ million				
	1986	1987	1988	1989	1990
Land and buildings					
New building work	27.4	42.4	63.8	57.5	78.6
Land and existing buildings					
Acquisitions	23.9	18.1	25.1	22.8	19.7
Disposals	6.0	6.4	45.1	15.6	8.6
Net	45.3	54.1	43.8	64.8	89.7
Plant and machinery					
Acquisitions	118.8	127.9	165.2	165.2	171.2
Disposals	4.3	7.0	14.1	7.2	9.9
Net	114.5	120.9	151.1	158.0	161.3
Vehicles					
Acquisitions	25.7	26.6	30.9	26.3	26.0
Disposals	7.0	8.7	9.8	10.7	6.1
Net	18.7	17.9	21.1	15.5	19.8
Total net capital expenditure	178.6	193.0	216.0	238.3	270.9

(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 £11.3 million for 1990.

TABLE 3

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

	£ million					Value at end of 1990
	1986	1987	1988	1989	1990	
			Increase during year			
Materials, stores and fuel	5.3	11.2	15.3	20.2	4.3	169.2
Work in progress	1.4	6.6	0.7	2.7	13.2	81.5
Goods on hand for sale	17.8	25.7	5.4	4.5	12.0	188.0
Total	24.5	43.6	21.4	27.4	29.5	438.7

TABLE 4

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		Employment			Wages and salaries (c)			
	Enter- prises (b)	Number	Total including working proprietors	Opera- tives	Admini- strative,tech- nical and clerical	Operatives		Administrative, technical and clerical	
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
1-9	697	695	2.7						
10-19	269	268	3.8						
20-49	200	195	6.3	16.6	3.1	143.2	8,618	41.8	13,662
50-99	107	103	7.6						
100-199	70	63	9.4	7.9	1.4	65.1	8,227	22.0	15,252
200-299	45	38	11.0	9.3	1.7	81.3	8,752	23.0	13,529
300-399	14	12	5.0	4.2	0.8	34.0	8,037	9.6	12,426
400-499	9	7	3.9	3.1	0.8	28.1	9,065	16.0	18,817
500-749	22	13	12.9	11.2	1.6	97.3	8,675	22.4	13,698
750-999	11	11	9.5	8.2	1.4	73.9	9,021	18.7	13,808
1,000-1,499	9	8	10.9	9.3	1.5	81.7	8,754	17.1	11,201
1,500-1,999	8	7	13.9	12.1	1.8	110.1	9,093	26.6	14,902
2,000-Plus	7	7	19.9	16.7	3.3	143.1	8,587	38.3	11,730
Total	1,468	1,362	116.8	98.7	17.4	857.9	8,694	235.3	13,540

(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 £119.4 million.

(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.

Total sales and work done	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (d)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
2,260.5	2,261.8	430.8	21,159	(e)	(e)	53.9	68.2
915.9	914.9	197.3	21,091	487.5(e)	16,359(e)	24.5	33.0
993.7	994.7	224.1	20,380	171.7	15,621	26.4	42.4
343.6	342.9	90.7	18,124	75.2	15,019	8.0	17.7
333.8	335.3	102.1	25,875	73.2	18,544	8.5	23.2
807.6	812.2	262.3	20,404	222.0	17,269	23.9	53.1
606.4	606.0	181.7	19,033	151.7	15,886	15.7	34.7
549.2	552.8	219.2	20,176	188.1	17,315	29.8	26.5
967.0	978.5	280.1	20,158	220.5	15,865	38.7	53.5
947.3	950.8	400.2	20,077	324.5	16,282	41.5	86.5
8,724.9	8,750.1	2,388.4	20,457	1,914.4	16,397	270.9	438.7

TABLE 5

PA412

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

Accounting year ended	Percentage of total returns received	Percentage of total employment
1990		
April 6-30	4.9	5.1
May	2.5	4.1
June	7.0	3.6
July	3.5	5.9
August	2.1	1.5
September	7.4	10.7
October	3.2	0.6
November	1.8	1.0
December	29.5	33.3
1991		
January	3.9	1.0
February	2.1	4.9
1 March - 5 April	32.3	28.2

TABLE 6

Operating ratios, 1986-1990

All United Kingdom businesses classified to the industry

	Unit	1986	1987	1988	1989	1990
Gross output per head	£	60,028	62,183	64,464	70,712	74,946
Net output per head	£	15,314	16,182	16,803	18,030	20,457
Gross value added per head	£	12,099	13,054	13,382	14,444	16,397
Gross value added as a percentage of gross output	%	20	21	21	20	22
Ratio of gross output to stocks		20.5	19.2	19.1	19.9	19.9
Wages and salaries as a percentage of gross value added	%	57	55	59	59	57
Ratio of operatives to administrative, technical and clerical employees		5.4	5.8	5.4	5.8	5.7
Wages and salaries per operative	£	6,480	6,755	7,347	7,929	8,694
Wages and salaries per administrative, technical and clerical employee	£	9,407	10,382	10,929	12,474	13,540
Net capital expenditure per head (a)	£	1,632	1,699	1,824	2,025	2,320
Net capital expenditure as a percentage of gross value added (a)	%	14	13	14	14	14

(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

PA412

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 employment (a)		Net capital expenditure (b)		Net output (c)		Gross value added at factor cost (c)	
	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	6.0	5.2	12.2	4.5	101.9	4.3	77.6	4.1
Yorkshire and Humberside	13.6	11.7	38.2	14.1	293.1	12.3	225.8	11.8
East Midlands	15.4	13.2	48.9	18.0	313.7	13.1	258.5	13.5
East Anglia	14.4	12.4	23.8	8.8	320.3	13.4	254.4	13.3
South East	10.5	9.0	25.5	9.4	212.1	8.9	167.7	8.8
South West	12.3	10.5	18.2	6.7	239.7	10.0	186.1	9.7
West Midlands	11.0	9.4	18.6	6.9	252.9	10.6	218.3	11.4
North West	8.7	7.4	19.3	7.1	163.9	6.9	121.5	6.3
England	91.9	78.7	204.6	75.5	1,897.6	79.5	1,509.8	78.9
Wales	5.0	4.2	23.2	8.6	107.3	4.5	95.4	5.0
Scotland	12.8	10.9	28.6	10.6	249.3	10.4	198.7	10.4
Great Britain	109.7	93.9	256.3	94.6	2,254.1	94.4	1,803.9	94.2
Northern Ireland	7.1	6.1	14.5	5.4	134.3	5.6	110.5	5.8
United Kingdom	116.8	100.0	270.9	100.0	2,388.4	100.0	1,914.4	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.

TABLE 8

PA412

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

	Unit	4121	4122	4123	4126
Enterprises(a)	Number	514	655	123	92
Businesses	"	526	710	139	93
Sales of goods produced	£ million	2,994.2	3,328.4	1,798.5	210.0
Work done and industrial services	"	12.3	18.5	0.2	0.9
Capital goods produced for use within the business	"	0.1	1.0	1.1	-
Non-industrial services rendered	"	0.5	9.1	3.8	4.9
Goods merchanted or factored	"	34.0	238.5	47.5	21.4
Total sales and work done	"	3,041.1	3,595.5	1,851.1	237.2
Increase during the year, work in progress and goods on hand for sale	"	-1.6	6.3	18.9	1.7
Gross output	"	3,039.5	3,601.8	1,869.9	238.9
Purchases of materials for use in production, packaging and fuel	"	2,578.3	2,196.5	1,103.7	98.6
Purchases of goods for merchanting or factoring	"	31.8	186.8	42.0	20.7
Increase during the year, stocks of materials, stores and fuel	"	-1.9	-2.7	9.8	-0.8
Cost of industrial services received	"	20.0	50.3	33.3	13.2
Levies payable	"	23.4	2.5	1.2	-
Less allowances receivable	"	30.0	5.9	0.5	-
Net output	"	414.0	1,168.8	700.0	105.6
Total employment	Thousand	17.1	61.0	35.6	3.1
Net output per head	£	24,279	19,163	19,647	34,325
Cost of non-industrial services received					
Hire of vehicles, plant and machinery	£ million	9.4	25.8	10.2	1.6
Rents of industrial and commercial buildings	"	2.1	8.0	1.9	0.3
Commercial insurance premiums	"	5.2	11.2	7.4	1.9
Bank charges	"	0.9	1.4	0.6	1.1
Other non-industrial services	"	82.0	165.9	77.7	31.3
Licensing of motor vehicles	"	0.6	1.1	1.3	0.5
Rates, excluding water rates	"	4.4	15.1	3.4	1.6
Gross value added at factor cost	"	309.4	940.3	597.5	67.2
Gross value added at factor cost per head	£	18,146	15,416	16,770	21,836

(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

PA412

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

	£ million			
	4121	4122	4123	4126
Land and buildings				
New building work	10.2	39.9	27.2	1.3
Land and existing buildings				
Acquisitions	2.3	10.1	7.2	0.2
Disposals	1.2	1.8	5.6	-
Net	11.3	48.1	28.8	1.5
Plant and machinery				
Acquisitions	22.4	94.2	45.8	8.8
Disposals	1.8	4.4	3.5	0.3
Net	20.6	89.8	42.4	8.5
Vehicles				
Acquisitions	3.9	12.0	7.7	2.4
Disposals	1.3	2.6	1.8	0.4
Net	2.5	9.4	5.9	2.0
Total net capital expenditure	34.5	147.3	77.1	12.0

(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

	£ million			
	4121	4122	4123	4126
10a Increase during year				
Materials, stores and fuel	-1.9	-2.7	9.8	-0.8
Work in progress	1.1	7.3	4.8	-
Goods on hand for sale	-2.7	-1.0	14.1	1.7
Total	-3.5	3.5	28.6	0.9
10b Value at end of year				
Materials, stores and fuel	13.4	99.9	52.4	3.6
Work in progress	6.4	24.3	50.3	0.5
Goods on hand for sale	40.4	75.2	64.0	8.4
Total	60.2	199.4	166.6	12.5

TABLE 11

PA412

Operating ratios, 1990

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

	Unit	4121	4122	4123	4126
Gross output per head	£	178,268	59,049	52,484	77,653
Net output per head	£	24,279	19,163	19,647	34,325
Gross value added per head	£	18,146	15,416	16,770	21,836
Gross value added as a percentage of gross output	%	10	26	32	28
Ratio of gross output to stocks		50.5	18.1	11.2	19.2
Wages and salaries as a percentage of gross value added	%	55	60	53	62
Ratio of operatives to administrative, technical and clerical employees		6.5	4.9	7.6	3.2
Wages and salaries per operative	£	9,702	8,482	8,256	12,952
Wages and salaries per administrative, technical and clerical employee	£	13,817	13,387	13,314	16,186
Net capital expenditure per head (a)	£	2,021	2,415	2,163	3,903
Net capital expenditure as a percentage of gross value added (a)	%	11	16	13	18

(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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