PA344

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1988

Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components

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
Business Statistics Office

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PA344 TELECOMMUNICATION EQUIPMENT, ELECTRICAL MEASURING EQUIPMENT, ELECTRONIC CAPITAL GOODS AND PASSIVE ELECTRONIC COMPONENTS

The information in this report relates to businesses classified to the Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components industry, Group 344 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

3441 Telegraph and telephone apparatus and equipment

Manufacture of line telephone and telegraph apparatus of all kinds, including exchange equipment, switchboards, teleprinters, subscribers' apparatus, etc. The manufacture of parts specialised to telecommunication apparatus, e.g. dials, handsets is included.

Manufacture of meters, instruments and control systems dependent on electric or electronic technology for the function of measurement or control

Manufacture of transmitters for radio and television broadcasting, wireless telephony and telegraphy including microwave links and relay stations, studio electronic equipment including television cameras, closed-circuit apparatus, monitors, etc., radio communication receivers, walkie-talkies, radar and electronic navigational aids, aerials for transmitting and receiving radio communications (nondomestic), X-ray apparatus and similar apparatus using radio sources, electro medical apparatus for diagnostic and treatment purposes including hearing aids. Manufacture of audio and video tape recorders is classified to Group 345.

3444 Components other than active components, mainly for electronic equipment

Manufacture of resistors, capacitors, inductors, transformers (IF, RF and AF), switches, relays, rectifiers (other than diodes, which are classified to Group 345), printed circuits, connectors, circuit protection devices for telecommunication, electronics and instrumentation purposes. Manufacture of specialised cases and racking, etc. for these applications is 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 3.

LIST OF CONTENTS

Explanatory	y notes and definitions		3–5
Table 1	Output and costs, 1984–1988		6
Table 2	Capital expenditure, 1984–1988		7
Table 3	Stocks and work in progress, 1984–1988		7
Table 4	Employment, labour costs, output, net cap work in progress by size of total employme		8–9
Table 5	Percentage analysis of twelve-month period for the 1988 Census by number of returns a		10
Table 6	Operating ratios, 1984–1988		10
Table 7	Regional distribution of employment, net of and gross value added at factor cost, 1988	eapital expenditure, net output	11
Table 8	Output and costs by activity heading, 1988		12
Table 9	Capital expenditure by activity heading, 19	88	13
Table 10	Stocks and work in progress by activity hea	ding, 1988	13
Table 11	Operating ratios by activity heading, 1988		14

EXPLANATORY NOTES AND DEFINITIONS

INTRODUCTION

PA344

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 compar ability 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

- 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-
- 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.
- 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 geograph-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

- A register of businesses throughout the United Kingdom is held on the BSO computer and provides the basis for BSO 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. During 1984, for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs and
- The Annual Census and other BSO 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 Sales Inquiry, 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 BSO and the Department of Employment differ because they are derived from two separate inquiries and use different procedures and employment definitions.

COVERAGE

Page

- 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 1988 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 business in the sample size band or where response in earlier years was poor. About 16,050 forms were despatched in the United Kingdom for the 1988 Census.

PERIOD COVERED

Businesses were asked to make returns for the calendar year 1988 but, where this was not possible, returns for business years ending between 6 April 1988 and 5 April 1989 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 nonresponders, unsatisfactory returns and businesses not selected for the Census. Estimates are also made for items not covered on 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 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 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.
- 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

"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 1988

The 1988 Census, like that for 1987, was a slimline one. Additional questions were asked for numbers of computer employees, costs of computer equipment purchased and, for larger businesses only, costs of hiring, leasing or renting computer equipment and amounts paid for computing services. Additional questions were also asked for the cost of assets leased under finance leasing arrangements.

SYMBOLS USED

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

nil or less than half the final digit shown

information suppressed to avoid disclosure

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. 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 USE WITHIN THE BUSINESS by its own staff are included. The value of any assets acquired in taking over an existing business are excluded. The figures include non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

a. on LAND AND EXISTING BUILDINGS

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. 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 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 canteens 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 FILE!

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 BATIOS

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

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 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 EXPEND-ITURE, 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 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, irrespective of 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 valued '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.

STOCK

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. PA344

Output and costs, 1984-1988 All United Kingdom businesses classified to the industry (a)

21 The worse and defend discussions on the Participant gives to year additional state.	Unit	1984	1985	1986	1987	1988
AND THE PROPERTY OF THE PROPER	Number	2,523	2,658	2,681	2,800	2,922
Enterprises	"	2,739	2,909	2,952	3,013	3, 138
Businesses	C:!!!	Ton Salada In	6,768.3	7,004.4	7,500.4	8,373.6
Sales of goods produced	£ million	6,372.3	6,768.3	7,004.4	7,500.4	0,373.0
Work done and industrial services rendered	The week in	439.4	442.6	420.2	462.6	548.9
Capital goods produced for use within the business	ODE PRODE	18.7	21.4	18.0	13.4	28.3
Non-industrial services rendered	"	64.6	65.5	68.5	57.6	67.9
Goods merchanted or factored	" vacance	635.9	564.1	569.1	607.8	697.4
Total sales and work done	OILBINGS	7,530.8	7,862.0	8,080.2	8,641.8	9,716.1
Increase during the year, work in progress and goods on hand for sale	South and the	136.3	66.1	146.0	76.1	38.8
Gross output	"	7,667.1	7,928.1	8,226.2	8,718.0	9,754.8
Purchases of materials for use in production, packaging and fuel	ny soen orate	2,986.4	3,083.5	3,089.2	3,309.9	3,673.9
Purchases of goods for merchanting or factoring	idio Pand cone	483.0	402.0	409.5	443.3	521.3
ncrease during the year, stocks of materials, stores and fuel	n.	136.2	27.1	-33.9	9.6	56.7
Cost of industrial services received	Y, VIII, HIGLES	259.7	236.6	291.3	296.6	286.7
Net output	o tempo de como	4,074.2	4,233.1	4,402.4	4,677.7	5,329.6
Total employment	Thousand	230.9	222.5	222.1	216.9	215.0
Net output per head	f	17,644	19,024	19,822	21,563	24,785
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	40.7	46.5	55.1	54.2	60.0
Rents of industrial and commercial buildings	wed only provi	46.3	49.2	56.1	63.4	61.3
Commercial insurance premiums	The state of the s	23.0	27.1	32.0	39.3	40.5
Bank charges	n	4.0	5.1	5.1	5.1	6.1
Other non-industrial services	n .	394.0	431.0	498.6	609.7	596.4
Licensing of motor vehicles	"	1.3	1.4	1.5	1.6	1.6
Rates, excluding water rates	n	39.2	39.6	45.8	51.2	58.3
Gross value added at factor cost		3,525.7	3,633.3	3,708.2	3,853.2	4,505.4
Gross value added at factor cost per head	and these are the	15,268	16,329	16,696	17,763	20,952

⁽a) Satisfactory returns accounted for 84 per cent of employment within the industry in 1988.

TABLE 2

Capital expenditure, 1984-1988

All United Kingdom businesses classified to the industry

Total coles Gross -	(3) 29/10/82 5/10 1984	1985	1986	1987	1988	Total stocks 9xi
and and buildings			factor coer		(d)	
New building work	40.6	42.8	45.7	31.6	37.9	
Land and existing buildings						
Acquisitions	31.3	22.0	18.4	27.3	26.1	
Disposals	5.2	6.3	9.9	18.6	25.2	
Net	66.7	58.4	54.2	40.3	38.7	
Plant and machinery						
Acquisitions	324.5	313.0	300.8	299.6	372.8	
Disposals	10.0	10.1	19.3	32.9	29.2	
Net	314.5	302.9	281.4	266.7	343.6	
/ehicles						20-49
Acquisitions	21.7	22.0	23.3	24.8	32.9	
Disposals	7.1	7.6	7.4	9.2	12.2	
Net	14.6	14.4	15.8	15.6	20.6	
Total net capital expend		375.8	351.4	322.6	402.9	
Total net capital expend	RCA S A F AR	3/3.8	331.4	322.0	402.3	- aga-aga

TABLE 3

Stocks and work in progress, 1984-1988
All United Kingdom businesses classified to the industry

						£ million	
	1984	1985	1986	1987	1988	Value at end of 1988	
			Increase during	g year			
Materials, stores and fuel	136.2	27.1	-33.9	9.6	56.7	682.7	
Work in progress	121.8	54.1	133.4	54.7	-8.6	1,688.2	
Goods on hand for sale	14.5	12.0	12.6	21.4	47.4	432.7	
Total	272.5	93.2	112.1	85.7	95.5	2,803.6	
e offsize, owning	iterprises, irrespectiv	ne to redmun	aft emsavigs	wen in each row r	erprises sh	the to thuch ell?	(d)

TABLE 4

Total

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1988

All United Kingdom businesses classified to the industry (a)

Size	Busin-	Enter- prises	Employme	nter		Wages and s	alaries (c)		
group	esses	(b)							
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	7, 59 -\$1 48	Administra technical a clerical	
						Total	per head	Total	per head
									Net
	Number	Number	Thousand	Thousand	Thousand	£ million	£ 8,84	£ million	tabalanpo
1-9	2,014	2,001	5.6)						
10-19	295	292	4.1)	17.5	13.8	137.8	7,862	181.2	13, 138
20-49	306	298	10.4	17.3	13.0	137.0	7,002	101.2	13, 136
50-99	174	170	12.1)						
100-199	130	123	18.2	10.4	7.8	82.2	7,939	106.7	13,618
200-299	68	61	16.4	8.8	7.6	67.7	7,715	101.8	13,348
300-399	43	36	14.7	8.5	6.3	62.1	7,318	82.3	13, 138
400-499	36	34	16.0	8.9	7.1	80.3	9,028	86.5	12,256
500-749	25	22	14.8	8.6	6.2	73.0	8,495	85.7	13,730
750-999	15	11	13.1	8.3	4.7	74.4	8,924	63.2	13,359
1,000-1,499	12	11	14.5	8.2	6.3	98.7	12,011	92.8	14,668
1,500-1,999	7	6	12.3	5.1	7.2	63.0	12,439	100.3	13,855
2,000-2,499	3	3	6.5	2.0	4.6	24.7	12,559	66.4	14, 503
2,500-4,999	5	3	13.7	6.4	7.3	70.6	11,053	92.4	12,668
5,000-Plus	5	3	42.6	13.7	28.9	141.2	10,318	389.6	13, 474

(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.

106.3

215.0

107.9

9,180

1,449.1

975.7

13,428

(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 £327.7 million. The remuneration of outworkers on returns recieved - also excluded from the table - was £3203 thousand.

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

2,922

3,138

PA344

Total sales and work	Gross output	Net output		Gross value added at	NAME OF STREET	Net capital expenditure	Total stocks and work in
done				factor cost		CAPCHICITOR	progress at
							end of year
	1.3						
		Total	per	Total	per		
			head	6.0	head		
North	4.6	E.A	3_8	8.5 2.1	138.3		
million	£ million	£ million	£	£ million	£	£ million	£ million
1,217.2	1,222.4	676.8	21,053	(d)	(d)	56.4	235.5
734.9	740.9	200.0	04 004	28.6	355.8		
		398.6	21, 921	856.3(d)	16, 990(d)	34.2	148.5
743.0	736.9	369.7	22,527	293.0	17,853	24.0	148.7
605.6	595.3	316.9	21, 487	255.9	17,350	22.7	134.1
691.3	705.5	362.5	22,715	300.3	18,818	25.7	169.1
773.3	782.5	354.7	23,903	287.0	19,341	31.8	185.9
544.8	547.2	276.0	21, 119	232.1	17,755	20.1	145.8
874.1	844.9	528.5	36,332	473.2	32,528	46.7	210.0
607.1	590.2	341.2	27,729	296.0	24,054	14.8	345.8
498.1	544.6	296.9	45,371	274.1	41,890	20.8	186.3
563.1	555.6	295.6	21,603	266.6	19,484	15.8	239.5
1,863.4	1,888.6	1,112.2	26,110	971.0	22,794	89.9	654.3

TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1988 Census by number of returns and total employment

	ing year ended	Perce receiv	ntage of total r red	eturns		ntage of total syment	
1988	April 6-30		2.000 total		output	0.5	and work
18	May		3.1			1.6	
	June	Turst :-	5.6			1.9	
	July		4.9			4.6	
	August		1.8			0.9	
	September		6.3			2.9	
	October		4.7			3.1	
	November		1.8			2.0	
	December		36.9			26.3	
1989	January A. Ba		2.7			61.7996.2	
	February		1.6			0.4	
	1 March - 5 April		28.6			54.0	

TABLE 6

Operating ratios, 1984-1988

All United Kingdom businesses classified to the industry

5,800-89688	5 e.ea. 3	22,294	Unit	1984	1985	1986	1987	1988
Gross output per head			£	33,203	35,630	37,039	40, 188	45,364
Net output per head			£	17,644	19,024	19,822	21,563	24,785
Gross value added per	head		£	15,268	16,329	16,696	17,763	20,952
Gross value added as a gross output	percentage of		%	46	46	45	44	46
Ratio of gross output to	stocks			3.3	3.5	3.4	3.3	3.5
Wages and salaries as gross value added	a percentage of		%	54	55	57	59	54
Ratio of operatives to a technical and clerical e				1.1	1.0	1.1	1.0	1.0
Wages and salaries pe	r operative		£	6,904	7,418	7,896	8,624	9, 180
Wages and salaries pe technical and clerical e			£	9,780	10,698	11,467	12,480	13, 428
Net capital expenditure	e per head		£	1,715	1,689	1,582	1,487	1,874
Net capital expenditure of gross value added	e as a percentage		%	11	10	10	8	9

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1988 All United Kingdom businesses classified to the industry

3444		3442	1986					
Area		Total employment (a)	Net cap expend (b)		Net out (c)	put	Gross added	at
914	876	930	418				(c)	żezzenizu
oliud gnilling bas bas		Thousand per cent of	f million	per cent of	f million		£ million	
		United Kingdom		United Kingdom		United Kingdom		United Kingdom
Standard regions of	England			1,000		or age within		aboon wage
North		6.4 3.0	8.5	2.1	118.3	2.2	102.2	2.3
Yorkshire and								
Humberside		3.8 1.8	5.7	1.4	69.8	1.3	59.7	1.3
East Midlands		14.0 6.5	28.3	7.0	328.7	6.2	288.0	6.4
East Anglia		7.5 3.5	10.5	2.6	175.1	3.3	144.3	3.2
South East		103.1 47.9	175.4	43.5 2	,772.6	52.0	2,326.4	51.6
South West		19.7 9.1	36.3	9.0	450.8	8.5	367.7	8.2
West Midlands		14.1 6.5	31.9	7.9	361.8	6.8	315.9	7.0
North West		14.8 6.9	29.2	7.2	387.8	7.3	325.4	7.2
England	ondtuke	183.4 85.3	325.9	90.0	004.0	79.0 19	re the year	crease durn starials, sto
Wales				80.9 4	, 664. 9	87.5	3,929.6	87.2
		* * *	a.18*	*	*	*	*	be vied
Scotland	2,684.5	19.2 8.9	50.8	12.6	426.2	8.0	369.8	8.2
Great Britain	8.18	44.3	1,68	puesnon			HISIN	yolqma tan
		* 24,25	188, 38	*	*	*	beed teq	net butput
Northern Ireland	955, 1988	* *	*	*	*	Šusivu	idčstrlul se	sst of non-incolved
United Kingdom	A TT	215.0 100.0	402.9	100.0 5,	329.6	100.0	4, 505. 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.

⁽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

PA344

Output and costs, 1988
All United Kingdom businesses classified to each Activity Heading within the industry

	Unit	3441	3442	3443	3444
Enterprises(a)	Number	398	894	823	877
Businesses	. 3.1	418	930	876	914
	£ million	2, 126. 7	1,549.2	3, 374. 4	1,323.2
Sales of goods produced	2 7000 700	2,120.7	med led bucaudt	3,374.4	1,323.2
Work done and industrial services rendered	United " Kinggom	145.4	178.4	217.1	8.0
Capital goods produced for use within the business	n 8,3	*	2.6	8.3	to anoiget bixton
Non-industrial services rendered	246 " 118.3	8.8 *	4.4.9	31.0	(*)
Goods merchanted or factored	"	223.0	99.1	218.9	156.3
Total sales and work done	8.68 . 36.9	2,540.7	1,833.9	3,849.8	1,491.8
Increase during the year, work in progress and goods on hand for sale	7.9 328.7	7.5	11.2	5.6	14.5
S.E. E.AM.	1.871	2,548.1	1,845.1	3,855.3	1,506.3
Gross output		2,340.1	1,045.1	3,033.3	1,300.3
Purchases of materials for use in pro- duction, packaging and fuel	8.8 " 450.8	975.6	659.5	1,457.3	581.6
Purchases of goods for merchanting or factoring	7.2 397.8	180.0	75.2	158.7	107.3
Increase during the year, stocks of materials, stores and fuel	e. A. G. G. G. A. G. G. G. A. G. G. G. A. G.	33.2	8.6	4.6	10.3
Cost of industrial services received	п	31.6	40.9	179.4	34.7
Net output	12.6 " 426.2	1,394.1	1,078.0	2,064.5	793.0
Total employment	Thousand	43.1	44.3	81.8	45.9
Net output per head	of the found	32,347	24,358	25,235	17,289
Cost of non-industrial services received					
Hire of vehicles, plant and machinery	a. 0.5 £ million 00	18.4	15.5	17.4	8.7
Rents of industrial and commercial buildings	н	12.2	11.4	27.0	10.7
Commercial insurance premiums	ime employees and	5.7	9.7	16.7	8.4
Bank charges	ing buildings, vehicl	0.9	1.5	2.4	1.3
Other non-industrial services	" %	112.1	167.9	240.3	76.2
Licensing of motor vehicles	themyolame of state	0.4	0.4	0.5	0.2
Rates, excluding water rates	"	9.8	14.2	23.8	10.5
Gross value added at factor cost	n .	1,234.6	857.3	1,736.5	677.0
Gross value added at factor cost per head	f	28,645	19,372	21,226	14,760

⁽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.

Capital expenditure, 1988
All United Kingdom businesses classified to each Activity Heading within the industry

		3441	3442	3443	3444
		44	- 7/1	1-1-1-1	
Land and buildings New building work		3442	15.7	tinU	
			15.7	9.5	5.0
Land and existing bu	liaings				
Acquisitions		888, 57.8	5.5	3 8.9	3.9 basel nest head 9.8
Disposals		278,83.4	4.0	8.2	Gross value added per heb. e
Net		12.0	17.3	10.1	lo spara-0.7g a za babba gulay azono
Plant and machinery					
Acquisitions		97.8	60.0	141.3	73.8
Disposals		6.1	4.5	14.7	Wages and salaries as a gereentage of gross value added
Net		91.6	55.5	126.5	69.9
Vehicles					Ratio of operatives to administrative, technical and clarical employees
Acquisitions		888 8.8	T08.8 8.2	10.8	Wages and selaries por of 6.5 arive
Disposals		1.9	4.4	3.6	Authorities 2.3 to Calleto the zegaW
Net		6.9	3.7	7.2	2.7
Total net capital e	xpenditure	110.6	76.5	143.9	Net capital expenditure as a percentage Net capital expenditure as a percentage of conservative added.

TABLE 10

Stocks and work in progress, 1988
All United Kingdom businesses classified to each Activity Heading within the industry

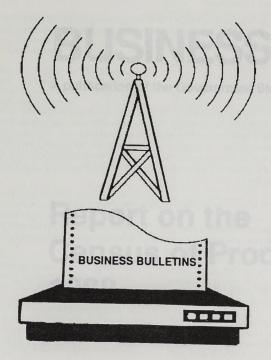
				£ millio	n
	3441	3442	3443	3444	
Oa Increase during year	Gredit be	Isineas		The state of the s	
aterials, stores and fuel	33.2	8.6	4.6	10.3	
fork in progress	-13.1	2.2	-1.6	3.8	
oods on hand for sale	20.5	9.0	7.2	10.7	
Total	40.7	19.8	10.2	24.9	
of the latest flou	res			and and a second	
Ob Value at end of year					
aterials, stores and fuel	196.3	151.2	237.4	97.9	
^{ork} in progress	141.3	395.8	1,064.0	87.0	
oods on hand for sale	126.3	70.7	162.7	73.0	
Total Cardin Road	463.9	617.7	1,464.0	258.0	
Naupart Guart					

TABLE 11

Operating ratios, 1988

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

uslinesed	Unit	3441	3442	3443	3444
	£ and tion	2.126.7	1,549.2	3.374.4	1,323.3
Gross output per head	£	59, 121	41,691	47, 125	32,841
Net output per head	6.8 E	32,347	24, 358	25,235	17,289
Gross value added per head	\$ 8 £	28, 645	19,372	21,226	14,760
Gross value added as a percentage of					
gross output	%	49	47	45	45
Ratio of gross output to stocks		5.5	3.0	2.6	5.8
Wages and salaries as a percentage of gross value added	%	42	58	58	59
Ratio of operatives to administrative,					
technical and clerical employees		1.0	0.9	0.7	2.2
Wages and salaries per operative	e or f	9,507	8,968	10,973	7, 221
Wages and salaries per administrative,		2.0	8 1.0	10, 100	12 244
technical and clerical employee	£	14, 761	13,420	13, 188	12,244
Net capital expenditure per head	£	2,565	1,728	1,759	1,570
anerus, stoins and food 8, gr					
Net capital expenditure as a percentage of gross value added	%	9	9	8	11
of gross value added					



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