BUSINESS STATISTICS OFFICE

PA324 1984

"STATISTICS" READING ROOM

42 C)

STATISTICS BACK - UP

42 (MA 251)

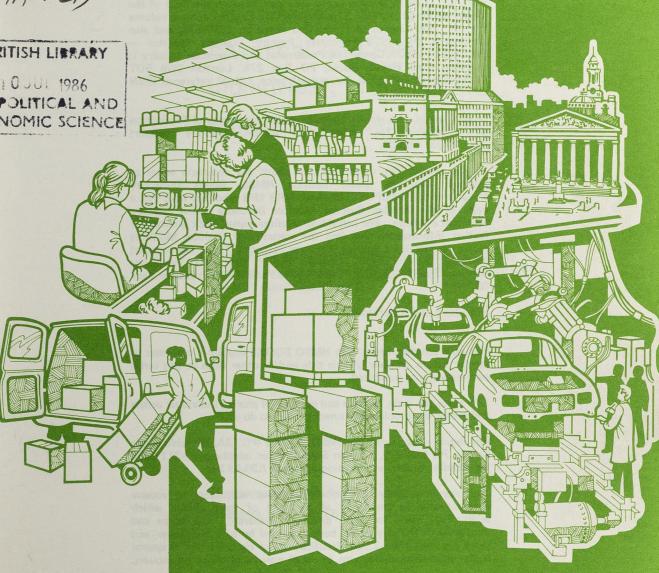
BRITISH LIBRARY

10001 1986 OF POLITICAL AND ECONOMIC SCIENCE

Business Monitor

Report on the Census of Production

Machinery for the food, chemical and related industries; process engineering contractors



HMSO



publication of the Government Statistical Service

BUSINESS MONITORS

SPECIAL NOTE FOR PURCHASERS

The Business Statistics Office, aided by industry and commerce, provides much of the statistical data required by Government for monitoring the economy.

You may, if you wish, purchase much of the data in the form of Business Monitors which are a series of publications containing statistical information compiled from inquiry forms sent out regularly by the BSO to selected firms asking detailed questions about production, sales, employment and investment. Business Monitors are the primary or in many cases the only source of the information they contain.

The Annual Census of Production Monitors deal with the manufacturing, energy, mining and construction industries. There are 115 Monitors in this series some of which cover more than one industry and they are all listed overleaf. They are prefixed by a code P (for Production) followed by A (annual series).

The 1980 Annual Census of Production was the first to be produced on the basis of the 1980 revision of the Standard Industrial Classification with individual reports covering three digit groups of the classification. 1980 reports contain comparable data for 1979, reworked from information originally published on the basis of the 1968 revision of the SIC. Also available is a special summary volume for the 1979 Census of Production based on 1980 SIC, and also containing the 1979 Purchases Inquiry Business Monitor — PA1002.1. 1979 Census of Production and Purchases Inquiry is available from HMSO Books, PO Box 276, London SW8 5DT (Telephone 01-622 3316 for orders) price £21.00 reference ISBN 011 5141146.

If you would like details concerning Annual Census of Production data published for earlier years please telephone Newport (STD 0633) 222455.

If you would like to know more about the complete series of Business Monitors please contact HMSO Books (Publicity Department), FREEPOST, Norwich NR3 1BR who will send you a copy of the detailed Business Monitor Brochure which lists the Monitors available. For individual Monitor copies, back numbers or further information regarding the contents of Business Monitors please contact the Librarian, Business Statistics Office, Government Buildings, Cardiff Road, Newport, Gwent, NP9 1XG. Telephone Newport (0633) 222973. Telex 497121 and 497122; answer back BSONPT G.

Standing order service

Placing a standing order with HMSO BOOKS enables a customer to receive future editions of this title and/or other titles in this series automatically as published.

This saves the time, trouble and expense of placing individual orders and avoids the problem of knowing when to do so.

For details please write to HMSO BOOKS (PC 13A/1), Publications Centre, PO Box 276, London SW8 5DT (or telephone 01-211 0363 for standing orders) and quoting reference X30.03.24.

The standing order service also enables customers to receive automatically as published all material of their choice which additionally saves extensive catalogue research. The scope and selectivity of the service has been extended by new techniques, and there are more than 3,500 classifications to choose from. A special leaflet describing the service in detail may be obtained on request.

PA324

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1984

Machinery for the food, chemical and related industries; process engineering contractors

Presented by the Secretary of State for Trade and Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Trade and Industry
Business Statistics Office

London: Her Majesty's Stationery Office

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

The following is the list of Business Monitors making up the complete census report.

Shown alongside each title, where appropriate, is an indication of the change in the estimated employment in that industry that has arisen, between 1983 and 1984, from the introduction of a new, more up to date, register of businesses. The change shown reflects the increase or decrease between the old and new registers at a fixed point in time and does not in itself give any indication of the growth or contraction within any industry between 1983 and 1984. Over all manufacturing industry there was an increase between the two registers of 1.3%. Changes for individual industries have arisen not only from the addition of extra, mainly small, units but also from the reclassification of some small units from one industry to another.

Since estimates of census variables, based on register employment, are made for small establishments which are not required to complete census forms, the change will affect much of the data contained in the reports. This should be taken into account in interpreting the figures.

Employment percentage variation

PA1001	Introductory notes	
PA111	Coal extraction and manufacture of solid fuels	
PA120	Coke ovens	
PA130	Extraction of mineral oil and natural gas	
PA140	Mineral oil processing	
PA161	Production and distribution of electricity	
PA162	Public gas supply	
PA170	Water supply industry	
PA210	Extraction and preparation of metalliferous ores	3
PA221	Iron and steel industry	1) 1m1 -
PA222	Steel tubes	
PA223	Drawing, cold rolling and cold forming of steel	97 W
PA224	Non-ferrous metals industry	179
PA231	Extraction of stone, clay, sand and gravel	-1
PA239	Extraction of miscellaneous minerals (including salt)	-
PA241	Structural clay products	-
PA242	Cement, lime and plaster	7
PA243	Building products of concrete, cement or plaster	A
PA244	Asbestos goods	1888
PA245	Working of stone and other non-metallic minerals	-
PA246	Abrasive products	-1
PA247	Glass and glassware	(See 1)
PA248	Refractory and ceramic goods	
PA251	Basic industrial chemicals	
PA255	Paints, varnishes and printing ink	
PA256	Specialised chemical products mainly for industrial and agricultural purposes	
PA257	Pharmaceutical products	
PA258	Soap and toilet preparations	12 To 1
PA259	Specialised chemical products mainly for household and office use	
PA260	Production of man made fibres	
PA311	Foundries Additional Property of the Control of the	(CC) -
PA312	Forging, pressing and stamping	
PA313	Bolts, nuts, etc; springs; non-precision chains; metals treatment	
PA314	Metal doors, windows etc	20 TO 10 TO
PA316	Hand tools and finished metal goods	-
PA320	Industrial plant and steelwork	
PA321 PA322	Agricultural machinery and tractors	
PA323	Metal-working machine tools and engineers' tools	
PA324	Textile machinery	,
A324	Machinery for the food, chemical and related industries; process engineering contractors	
A326	Mining machinery, construction and mechanical handling equipment	
PA327	Mechanical power transmission equipment	14
7027	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and	
A328	dry cleaning machinery	
A329	Miscellaneous machinery and mechanical equipment	
A330	Ordnance, small arms and ammunition	_
A341	Manufacture of office machinery and data processing equipment Insulated wires and cables	
A342	Basic electrical equipment	
A343	Electrical equipment for industrial use, and batteries and accumulators	
A344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	
	passive electronic components	
A345	Miscellaneous electronic equipment	- 4
A346	Domestic-type electric appliances	1
A347	Electric lamps and other electric lighting equipment	13
A351	Motor vehicles and their engines	0
A352	Motor vehicle hodies trailers and caravane	

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		percentage variation
A 252	Motor vehicle parts	-2
A353	Shipbuilding and repairing	0
A361	Railway and tramway vehicles	0
A362	Cycles and motor cycles	0
A363	Aerospace equipment manufacturing and repairing	0
A364	Miscellaneous vehicles	2
A365	Measuring, checking and precision instruments and apparatus	4
A371 A372	Medical and surgical equipment and orthopaedic appliances	-8
A372	Optical precision instruments and photographic equipment	1
A374	Clocks, watches and other timing devices	0
A411	Organic oils and fats	must cyndnidos
A412	Slaughtering of animals and production of meat and by-products	
A413	Preparation of milk and milk products	-5
A414	Processing of fruit and vegetables	0
A415	Fish processing	-4
A416	Grain milling	-7
A419	Bread, biscuits and flour confectionery	14
A420	Sugar and sugar by-products	0
A421	Ice-cream, cocoa, chocolate and sugar confectionery	-2
A422	Animal feeding stuffs	-5
A423	Starch and miscellaneous foods	2
A424	Spirit distilling and compounding	0
A426	Wines, cider and perry	2
A427	Brewing and malting	0
A428	Soft drinks	-1
A429	Tobacco industry	0
A431	Woollen and worsted industry	-2
A432	Cotton and silk industries	3
A433	Throwing, texturing, etc. of continuous filament yarn	-3
A434	Spinning and weaving of flax, hemp and ramie	-3
A435	Jute and polypropylene yarns and fabrics	0
A436	Hosiery and other knitted goods	3
A437	Textile finishing	3
A438	Carpets and other textile floorcoverings	1
A439	Miscellaneous textiles	3
A441	Leather (tanning and dressing) and fellmongery	-5
A442	Leather goods	8
A451	Footwear	2
A453	Clothing, hats and gloves	7
A455	Household textiles and other made-up textiles	-2
A456	Fur goods	-27
A461	Sawmilling, planing, etc. of wood	-17
A462	Manufacture of semi-finished wood products and further processing and treatment of wood	-4
A463	Builders carpentry and joinery	-5
A464	Wooden containers	-6
A465	Miscellaneous wooden articles	4
A466	Articles of cork and plaiting materials, brushes and brooms	7
A467	Wooden and upholstered furniture and shop and office fittings	-1
A471	Pulp, paper and board	1
A472	Conversion of paper and board	3
A475	Printing and publishing	5
A481	Rubber products	eni atilama
A483	Processing of plastics	2
A491	Jewellery and coins	noces Infant
A492 A493	Musical instruments	– 5
A493	Photographic and cinematographic processing laboratories	Period in sec
A495	Toys and sports goods Miscellaneous manufacturing industries	-1 67
A500	Miscellaneous manufacturing industries Construction	67
A1002	Summary tables	

PA324 MACHINERY FOR THE FOOD, CHEMICAL AND RELATED INDUSTRIES; PROCESS ENGINEERING CONTRACTORS PA324

The information in this report relates to establishments classified to the Machinery for the food, chemical and related industries; process engineering contractors industry, Group 324 in the Standard Industrial Classification Revised 1980. The industry Group covers the following

3244 Food, drink and tobacco processing machinery; packaging and bottling machinery

Food and drink processing machinery

Manufacture of plant and machinery for industrial food and drink processing. Machinery for use on farms is classified to Group 321 and for domestic use to Group 346.

Packaging and bottling machinery

Manufacture of machinery for bottling, canning, packeting, labelling and bottle washing.

Tobacco processing machinery

Manufacture of tobacco processing and cigar and cigarette making machinery.

3245 Chemical industry machinery; furnaces and kilns; gas, water and waste treatment plant

1. Chemical industry machinery

Manufacture of centrifuges, drying machines, filtration and industrial mixing equipment.

Furnaces and kilns

Manufacture of furnaces, ovens and kilns for the manufacture of metals and for the manufacture of cement, lime, glass and similar materials. Electrically fired types are included. High frequency microwave and dielectric furnaces are classified to Group 343.

Gas, water and waste treatment plant

Manufacture of air and gas cleansing plant for processes and for polution control. Manufacture of water, effluent and sewage treatment plant for process, industrial or municipal use. Manufacture of refuse disposal plant including incinerators.

Contracting for the design, engineering, procurement, on site construction, assembly and installation, and commissioning of plant for the process industries. Firms in this category are organised to enable them to contract for a combination of these functions even though their responsibility may be limited in the case of individual contracts.

For a full description of the 1980 classification see Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £3.95.

> In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page 5.

LIST OF CONTENTS

Explanator	y notes and definitions		5–7
Table 1	Output and costs, 1980–1984		8
Table 2	Capital expenditure, 1980—1984		9
Table 3	Stocks and work in progress, 1980–1984		9
Table 4	Employment, labour costs, output, net capital expenditur work in progress by size of total employment, 1984	e and stocks and	10–1
Table 5	Percentage analysis of twelve-month periods covered by refor the 1984 Census by number of returns and total emplo		12
Table 6	Operating ratios, 1980—1984		12
Table 7	Regional distribution of employment, net capital expendiand gross value added at factor cost, 1984	ture, net output	13
Table 8	Output and costs by activity heading, 1984		14
Table 9	Capital expenditure by activity heading, 1984		15
Table 10	Stocks and work in progress by activity heading, 1984		15
Table 11	Operating ratios by activity heading 1984		16

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).

 Since 1980, Censuses have been conducted on the Standard Industrial Classification Revised 1980 (SIC(80)). The Standard Industrial Classification exists to promote uniformity and comparability in the official statistics of the United Kingdom. The SIC(80) is the result of an attempt to align the United Kingdom classification with the General Industrial Classification of Economic Activities within the European Communities (NACE). It is based on activity rather than commodities produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £3.95.

REPORTING UNIT

As far as possible the reporting unit in respect of which information is collected is one whose activities fall within a single activity heading of the classification and which is situated at a single geographical location. Frequently, however, the information required cannot be provided on this basis. Where information covering a mixture of activities is all that is available, the unit is classified according to the main activity. Where a unit operates at a number of locations and the full range of information is not available for each location, the reporting unit is deemed to cover a number of locations. In most cases, separate information on employment and net capital expenditure is obtained for each location (local unit) in order to enable regional data to be compiled. The reporting unit, usually called the establishment, is therefore defined as the smallest unit for which the information normally required in a production census can be provided.

Establishments are asked to exclude from their returns particulars relating to ancillary departments not engaged in production (such as merchanting or factoring organisations, transport organisations, canteens and warehouses) for which separate accounts are kept. Transfers of goods produced to such departments are treated as sales, valued as far as possible as if sold to an independent purchaser. Where separate accounts are not kept, establishments are allowed to include details in their returns. Establishments are asked to include details relating to head offices engaged mainly in the administration of production units within the scope of the Census. Where head office activity covers more than one return, details are included in the principal return.

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

The annual Census and other inquiries provide a major source of information for updating and checking the register. For estab-lishments on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on information provided by the Department of Employment from Censuses of Employment. New additions to the register are obtained from various sources including HM Customs and Excise VAT records and Censuses of Employment.

Page

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

Under arrangements agreed for the 1984 Census, forms were despatched to all establishments with 20 or more employed except for those in the 20 to 49 employment size band located in England where, in general, a sample of 1 in 2 was taken. For industries where there were few units in the sample size band or where response in earlier years was poor, it was necessary to increase the sample. About 24,200 forms were despatched to production establishments in the United Kingdom for the 1984 Census.

PERIOD COVERED

Establishments were asked to make returns for the calendar 1984 but, where this was not possible, returns for business years ending between 6 April 1984 and 5 April 1985 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

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

- 11. Within employment size groups in each industry, the 'average per head" is calculated for each census variable by dividing the total returned value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or unselected establishment to yield an estimated value for that establishment. Estimates for items not collected on the shorter form are made in a similar way using returned employment.
- 12. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on two measures. The first of these is the extent to which establishments making satisfactory returns account for the overall total for any heading. In practice a measure of this is normally taken to be the employment of establishments making satisfactory returns expressed as a percentage of the total estimated employment (this is given in footnote (a) to Table 1). Thus the accuracy of data published in an Industry Report where 95 per cent of the employment in the industry is covered by returns made, will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.
- The second measure is the extent to which individual headings in an Industry Report are related to employment. Thus an estimate of total earnings which bears a close relationship to total employment is likely to be more accurate than an estimate of capital expenditure where the relationship to employment is not so

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

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

"The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act -

> in compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be: but this provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed

Figures which would be likely to disclose particulars relating to an individual undertaking are not published unless the contributor has given written consent for their publication.

CHANGES MADE FOR 1984

The 1984 Census was a benchmark one with a larger number of establishments receiving inquiry forms than had been the case with the previous 4 Censuses. Additional questions, for larger establishments only, asked for information on road transport costs, and postal and telecommunications costs. Coverage of the Census was extended to include, for the first time, establishments classified to activity headings 4121 (slaughterhouses), 4126 (animal by-product processing) and 4930 (photographic and cinematographic processing laboratories).

SYMBOLS USED

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

nil or less than half the final digit shown

figures cannot be shown owing to the risk of disclosing information about individual enterprises

ROUNDING OF FIGURES

18. 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

19. 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

20. This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation purposes during the year to which each establishment's return related. The value is inclusive of any amounts received or expected to be received in grants and/or allowances from government sources, statutory bodies or local authorities. Where expenditure is spread over more than one Census year, payments are included in the years in which they were made. Capital expenditure during the year in respect of production units where production had not started before the end of the year and the value of CAPITAL GOODS PRODUCED FOR ESTABLISHMENTS' OWN USE by establishments' own staff are included. The value of any assets acquired in taking over an existing business are excluded. 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

21. 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

22. This represents the value of new building and other constructional work such as the extension and reconstruction of old buildings, and the value of any newly constructed buildings acquired. The figures include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees.

c. on PLANT AND MACHINERY, VEHICLES

23. This represents the value of new and second-hand plant and machinery and vehicles acquired or disposed of. The figures for acquisitions are net of any discounts received but include the cost of transport and installation and Customs and Excise car tax. The figures for disposals exclude amounts written off for capital assets which are scrapped

CAPITAL GOODS PRODUCED FOR ESTABLISHMENTS' OWN USE

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

COST OF INDUSTRIAL SERVICES RECEIVED

25. This includes amounts payable to other organisations for work done on materials supplied by the establishment completing the return, for repairs and maintenance including those in respect of rented buildings, and for contracts which have been sublet. Direct payments to outworkers and amounts charged to capital account are excluded.

COST OF NON-INDUSTRIAL SERVICES RECEIVED

26. This includes commercial insurance premiums, bank charges and amounts payable to other organisations for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the services of accountants, auditors, agents, solicitors and surveyors other than in connection with the acquisition or disposal of capital assets, for postal and telecommunications services, for carriage by all forms of transport within the United Kingdom, for advertising, market research etc., for the right to use patents, trade marks, copyrights etc., for manufacturing and quarrying rights and technical 'know-how'. Interest payments and amounts payable for sea and air freight on goods exported on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 27. This includes employers' national insurance contributions, including the national insurance surcharge, 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 dependents. Also included are contributions to canteens, social centres, children's and holiday homes etc. and the cost of supplying luncheon youchers.

EMPLOYMENT

28. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES on the payroll and the number of WORKING PROPRIETORS employed during the year of return. Full-time and part-time employees are included but outworkers (i.e. people who worked in their own homes on materials supplied by establishments) and casual employees such as jobbers are excluded. The average number of employees returned by individual establishments may have been calculated by, for example, the average of the number of employees on the payroll for the last week of each calendar month.

a. ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES

29. This includes directors who received a definite wage, salary or commission, managers, foremen, draughtsmen, editorial and advertising staff, travellers, all office employees and research and design employees other than operatives.

b. OPERATIVES

30. This includes all manual wage earners including operatives in power stations, operatives engaged in outside work of erecting, fitting, etc., inspectors, maintenance workers and cleaners. Staff engaged in transport (including roundsmen) and employed in warehouses, stores, shops and canteens are in general excluded.

c. WORKING PROPRIETORS

31. These are people who are regarded as self-employed for national insurance purposes, members of their families who worked in the business without receiving a definite wage or salary for at least half the normal working hours and directors who worked in the business but did not receive a definite wage, salary or commission. Part-time directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

GROSS OUTPUT

32. This is calculated by increasing (or decreasing) the value of TOTAL SALES AND WORK DONE by the rise (or fall) during the year of WORK IN PROGRESS AND GOODS ON HAND FOR SALE

GROSS VALUE ADDED AT FACTOR COST

33. This is calculated by deducting from NET OUTPUT the COST OF NON-INDUSTRIAL SERVICES RECEIVED, RATES and the cost of LICENSING OF MOTOR VEHICLES. This estimate of gross value added approaches more closely than NET OUTPUT the definition of net output or value added in national accounts statistics.

GROSS VALUE ADDED AT FACTOR COST PER HEAD

34. This is calculated by dividing GROSS VALUE ADDED AT FACTOR COST by total EMPLOYMENT.

NET CAPITAL EXPENDITURE

35. This is calculated by adding to the value of NEW BUILDING WORK acquisitions less disposals of LAND AND EXISTING BUILDINGS, VEHICLES and PLANT AND MACHINERY.

NET OUTPUT

36. This is a traditional census measure calculated by deducting from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST OF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS OF MATERIALS, STORES AND FUEL.

NET OUTPUT PER HEAD

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

NON-INDUSTRIAL SERVICES RENDERED

38. This includes amounts charged for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the right to use patents, trade marks, copyrights etc., for manufacturing and 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

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

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

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

REMUNERATION PAID TO OUTWORKERS

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

SALES OF GOODS PRODUCED

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

STOCK

43. This represents the value of goods on hand for sale, including goods for merchanting or factoring and of materials, stores and fuel held by establishments coming within the scope of the Census, whether held in the United Kingdom or abroad. Values include any duty payable but exclude VAT.

WAGES AND SALARIES

44. This represents amounts paid during the year to ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. All overtime payments, benuses, 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.

WORK DONE AND INDUSTRIAL SERVICES RENDERED

45. This includes amounts charged for work carried out including that done by sub-contractors on customers' materials including amounts charged by establishments for materials supplied by them in the course of such work and for industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations. For certain industries this heading covers a wide variety of activities, for example, butter packed on commission in the food industries, making up of garments, fur dressing and textile finishing in the textile industries, and preparatory work on type-setting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries, and includes erection, installation and repair and jobbing work.

WORK IN PROGRESS

46. This represents materials which have been partially processed and are awaiting further processing before being sold or transferred. Progress payments made to sub-contractors are excluded and progress payments received from other organisations are not deducted.

TABLE 1

Output and costs, 1980-1984

	Unit	1980	1981	1982	1983	1984
Enterprises	Number	732	742	715	692	880(b)
Establishments	at the market said	817	825	790	763	953(b)
Sales of goods produced	£ million	875.4	806.1	842.8	813.0	915.3
Work done and industrial services rendered	,,	726.5	798.8	782.2	785.3	841.8
Capital goods produced for establishments' own use	<i>"</i>	1.6	0.6	0.6	0.5	0.8
Non-industrial services rendered		5.3	4.4	5.2	3.8	2.9
Goods merchanted or factored		116.2	119.2	100.4	123.9	125.6
Total sales and work done	oc 81" . 2 8 10	1,725.0	1,729.1	1,731.2	1,726.5	1,886.6
ncrease during the year, work in progress and goods on hand for sale		6.9	7.3	2.6	10.2	36.0
Gross output		1,732.0	1,736.4	1,733.8	1,736.7	1,922.6
Purchases of materials for use in pro- luction, and packaging and fuel	pp "	415.1	355.2	385.5	365.0	455.7
Purchases of goods for merchanting or actoring	el biológicko aniq electronica necesión politicare	89.3	84.2	79.9	89.2	98.3
ncrease during the year, stocks of naterials, stores and fuel	,,	6.7	-8.5	-1.7	1.7	10.4
cost of industrial services received	,,	117.2	124.8	135.8	104.0	122.8
Net output	"	1,117.2	1,163.7	1,130.8	1,180.3	1,256.1
otal employment	Thousand	73.4	65.9	61.3	56.0	53.3(b
Net output per head	£	15,213	17,645	18,462	21,058	23,572
Cost of non-industrial services eccived						
Hire of vehicles, plant and machinery	£ million	15.8	17.0	18.1	19.9	20.0
Rents of industrial and commercial buildings		21.2	24.4	28.3	29.1	31.4
Commercial insurance premiums	"	11.4	11.1	9.8	8.8	9.4
Bank charges	des inscribe	1.3	1.3	1.4	1.6	1.8
Other non-industrial services	"	89.1	112.8	125.9	115.5	116.8(c)
icensing of motor vehicles		0.5	0.5	0.7	0.5	0.5
ates, excluding water rates		17.0	21.1	22.1	22.9	23.8
Gross value added at factor cost		960.8	975.4	924.6	981.9	1,052.5

Satisfactory returns accounted for 85 per cent of employment within the industry in 1984.

Gross value added at factor cost

per head

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

14,790

19,750

13,083

Includes the cost of transport of goods by road (within the UK) of £9,207 thousand and postal and telecommunication costs of £18,281 thousand. These were collected separately for 1984 but not for the other years shown in the table.

TABLE 2

PA324

PA324

Capital expenditure, 1980–1984 and size of total and stocks and work in progress by size of total and 1986–1980 and 1986 All United Kingdom establishments classified to the industry

										£ million
		II And Joseph	1980	a sepond	1981	1982	niqua#	1983	1984	esi8 group
Land and building	JS									
New building v		S	4.6		5.9			3.4	3.5	
Acquisition	is tero?		1.8		2.0	8.3		1.5	3.5	
Disposals			3.4		3.5	3.0		3.8	2.6	
Net			3.0		4.4	9.4		1,1	4.4	
Plant and machine	ery									
Acquisitions			22.0		19.1	23.1		24.3	34.4	
Disposals			1.9		2.1	3.6		3.1	2.6	
Net			20.1		17.0	19.5		21.2	31.8	
Vehicles										
Acquisitions			7.3		7.4	7.5		6.9	8.1	
Disposals			2.7		3.4	3.7		2.3	3.6	
Net			4.6		4.0	3.8	a.c 2018	4.5	4.5	
Total net ca	apital expen	diture	27.6		25.4	32,7		26.9	40.7	

TABLE 3

Stocks and work in progress, 1980-1984 All United Kingdom establishments classified to the industry

	1980	1981	1982	1983	1984	
3a. Increase during year						
Materials, stores and fuel	6.7	-8.5	-1.7	1.7	10.4	
Work in progress	2.3	6.7	7.1	10.0	32.9	
Goods on hand for sale	4.6	0.5	-4.6	0.2	3.1	
Total	13.7	-1.2	0.9	12.0	46.4	

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1984

All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish- ments	Enter- prises (b)	Employment		Wages and salaries			(c)		
			Total, including working proprietors	Opera- tives	Admin- istrative, technical and clerical	Operatives		Administra technical ar	nd clerical	
						Total	per head	Total	per head	
	Numbe	n Number	Thousand	Thousand	Thousand	£ million	£	£ million	£	
1–9	516	501	1.9)							
10–19	159	158	2.2)	7.0	5.5	51.1	7,294	50.3	9,169	
20–49	76.5 111	108	3.7)							
50-99	65	63	4.7)							
100-199	49	46	6.7	3.7	2.9	26.0	6,952	25.8	8,889	
200-299	16	15	3.9	1.5	2.4	10.4	6,899	23.8	9,922	
300-399	8	5	2.9	1.0	1.9	7.4	7,301	18.1	9,565	
400-499	6	6	2.6	1.1	1.6	8.2	7,832	16.9	10,777	
500-749	11	11	6.5	1.2	5.3	8.8	7,137	66.7	12,665	
750-999	5	5	4.2	1.2	2.9	12.0	9,740	33.7	11,555	
1,000-1,999	4	4	6.2	1.4	4.8	14.5	10,408	63.1	13,064	
2,000 plus	3	3	7.8	2.4	5.5	19.7	8,347	66.4	12,155	

Total	953	880	53.3	20.5	32.7	158.2	7,700	364.7	11,148	

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

Total sales and work done	Gross output	Net output		(20)	Gross value added at factor cost		Net capital expenditure	Total stocks and work in progress at
								end of year
		Total	per head	DET CONT	Total	per head		
£ million	£ million	£ million	£	S. Albandon	£ million	£	£ million	£ million
		6.0						
407.0	412.4	223.3	17,833		(d)	(d)	8.9	70.4
223.8	230.1	104.8	15,752		267.8(d)	13,966(d)	6.0	44.1
154.8	158.5	119.3	30,568		103.8	26,594	2.3	22.2
82.7	83.7	43.2	14,876		34.2	11,775	2.3	16.2
103.6	121.4	84.4						
103.0	121.4	04.4	32,243		74.8	28,572	1.8	84.8
232.3	233.6	163.7	25,208		128.3	19,762	8.0	23.6
137.5	135.8	95.1	22,886		75.9	18,277	1.8	12.8
205.3	207.7	173.2	27,821		143.1	22,990	3.0	29.0
339.5	339.5	249.2	31,870		224.6	28,716	6.5	44.9

1,886.6	1,922.6	1,256.1	23,572	1,052.5	19,750	40.7	348.1
0.0	12	0.51	6.3	0.8	<u>y</u>		

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

⁽c) The cost of employers' contributions to the national insurance, pensions and welfare scheme and the running costs of canteens are excluded from the table but were estimated for the industry at £75.4 million. The remuneration of outworkers on returns received — also excluded from the table — was £138 thousand.

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

Percentage analysis of twelve-month periods covered by returns received for the 1984 Census by number of returns and total employment

Accounting y	rear ended	Perce	ntage of total retur	ns received	Percentage of t	Percentage of total employment			
Archy bris	anglaneces.	on (Since	11/000000				strove bee		
1984 6–3	0 April	1.4			0.6				
	May	2.4			0.5				
	June	5.8			0.0				
	June	5.8			2.2				
		proper							
	July	2.4			0.6				
	August	1.4			0.4				
	September	5.8			3.5				
	October	1.9			3.0				
	November	1.4			0.3				
	December	46.9			F0.0				
	December	40.9			59.6				
.005	65	400							
1985	January .	1.9			0.7				
	February	0.5			0.2				
	1 March E April	20.0							
	1 March-5 April	28.0			28.4				

TABLE 6

Operating ratios, 1980–1984

All United Kingdom establishments classified to the industry

	Unit	1980	1981	1982	1983	1984
Gross output per head	£	23,585	26,330	28,305	30,985	36,078
Net output per head	£	15,213	17,645	18,462	21,058	23,572
Gross value added per head	£	13,083	14,790	15,094	17,518	19,750
Gross value added as a percentage of gross output	%	55	56	53	57	55
Ratio of gross output to stocks		5.0	5.3	5.3	5.2	5.5
Wages and salaries as a percentage of gross value added	%	52	52	56	51	50
Ratio of operatives to administrative,			conqueta censo	resurts. Nace e	a of this date for	trose
technical and clerical employees Wages and salaries per operative	£	0.8 5,814	0.7 6,326	6,734	0.7 7,126	0.6 7,700
Nages and salaries per administrative, eechnical and clerical employee	£	7,601	8,810	9,629	10,186	11,148
Net capital expenditure per head	£	376	385	535	479	763
Net capital expenditure as a percentage of gross value added	% .	neskovinus i 3 Mil	3	4	3	4

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1984 All United Kingdom establishments classified to the industry

Area	Total employment (a)	Net capital expenditure (b)	Net output (c)	Gross value added at
		253		factor cost (c)

	12.11.19		V.800				
Thousands	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	f £ million	per cent of United Kingdom
1.8	3.4	1.1	2.7	54.5	4.3	47.5	4.5
3.2	6.0	2.0	4.9	43.4	3.4	35.0	3.3
2.6	4.8	0.9	2.3	50.7	4.0	43.8	4.2
4.3	8.0	7.7	19.0	101.5	8.1	87.3	8.3
26.5	49.8	17.9	44.1	751.2	59.8	627.8	59.6
1.7	3.1	1.5	3.6	22.3	1.8	18.1	1.7
4.6	8.6	4.2	10.4	73.1	5.8	58.1	5.5
6.0	11.3	3.4	8.3	118.3	9.4	102.3	9.7
50.6	95.0	38.8	95.3	1,215.0	96.7	1,019.8	96.9
0.7	1.3	0.4	1.0	12.3	1.0	9.6	0.9
1.4	2.7	1.1	2.6	20.6	1.6	16.2	7/1.5 cique lete
52.8	99.0	40.2	98.9	1,247.8	99.3	1,045.5	99.3
0.5	1.0	0.4	1.1	8.3	0.7	7.0	0.7
53.3	100.0	40.7	100.0	1,256.1	100.0	1,052.5	100.0
	1.8 3.2 2.6 4.3 26.5 1.7 4.6 6.0 50.6 0.7 1.4 52.8 0.5	United Kingdom 1.8 3.4 3.2 6.0 2.6 4.8 4.3 8.0 26.5 49.8 1.7 3.1 4.6 8.6 6.0 11.3 50.6 95.0 0.7 1.3 1.4 2.7 52.8 99.0 0.5 1.0	United Kingdom 1.8 3.4 1.1 3.2 6.0 2.0 2.6 4.8 0.9 4.3 8.0 7.7 26.5 49.8 17.9 1.7 3.1 1.5 4.6 8.6 4.2 6.0 11.3 3.4 50.6 95.0 38.8 0.7 1.3 0.4 1.4 2.7 1.1 52.8 99.0 40.2 0.5 1.0 0.4	United Kingdom 1.8 3.4 1.1 2.7 3.2 6.0 2.0 4.9 2.6 4.8 0.9 2.3 4.3 8.0 7.7 19.0 26.5 49.8 17.9 44.1 1.7 3.1 1.5 3.6 4.6 8.6 4.2 10.4 6.0 11.3 3.4 8.3 50.6 95.0 38.8 95.3 0.7 1.3 0.4 1.0 1.4 2.7 1.1 2.6 52.8 99.0 40.2 98.9 0.5 1.0 0.4 1.1	United Kingdom 1.8 3.4 1.1 2.7 54.5 3.2 6.0 2.0 4.9 43.4 2.6 4.8 0.9 2.3 50.7 4.3 8.0 7.7 19.0 101.5 26.5 49.8 17.9 44.1 751.2 1.7 3.1 1.5 3.6 22.3 4.6 8.6 4.2 10.4 73.1 6.0 11.3 3.4 8.3 118.3 50.6 95.0 38.8 95.3 1,215.0 0.7 1.3 0.4 1.0 12.3 1.4 2.7 1.1 2.6 20.6 52.8 99.0 40.2 98.9 1,247.8 0.5 1.0 0.4 1.1 8.3	United Kingdom 1.8 3.4 1.1 2.7 54.5 4.3 3.2 6.0 2.0 4.9 4.3.4 3.4 2.6 4.8 0.9 2.3 50.7 4.0 4.3 8.0 7.7 19.0 101.5 8.1 26.5 49.8 17.9 44.1 751.2 59.8 1.7 3.1 1.5 3.6 22.3 1.8 4.6 8.6 4.2 10.4 73.1 5.8 6.0 11.3 3.4 8.3 118.3 9.4 50.6 95.0 38.8 95.3 1,215.0 96.7 0.7 1.3 0.4 1.0 12.3 1.0 1.4 2.7 1.1 2.6 20.6 1.6 52.8 99.0 40.2 98.9 1,247.8 99.3 0.5	United Kingdom 1.8 3.4 1.1 2.7 54.5 4.3 47.5 3.2 6.0 2.0 4.9 43.4 3.4 35.0 2.6 4.8 0.9 2.3 50.7 4.0 43.8 4.3 8.0 7.7 19.0 101.5 8.1 87.3 26.5 49.8 17.9 44.1 751.2 59.8 627.8 1.7 3.1 1.5 3.6 22.3 1.8 18.1 4.6 8.6 4.2 10.4 73.1 5.8 58.1 6.0 11.3 3.4 8.3 118.3 9.4 102.3 50.6 95.0 38.8 95.3 1,215.0 96.7 1,019.8 0.7 1.3 0.4 1.0 12.3 1.0 9.6 1.4 2.7 1.1 2.6 20.6 1.6 16.2 52.8 99.0 40.2 98.9 1,247.8 99.3 1,045.5 0.5 1.0 0.4 1.1 8.3 0.7 7.0

⁽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 of 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.

PA324

TABLE 9

Output and costs, 1984

All United Kingdom establishments classified to each activity heading within the industry

	Unit	3244		3245	rotal en vu	3246
Enterprises (a)	Number	322	utitions (s	505	empleym	69
Establishments		353		528		72
Sales of goods produced	£ million	572.1		335.6		7.6
Work done and industrial services rendered	.,	26.3		49.0		766.5
Capital goods produced for establishments' own use	perink) (.4 mologisk	0.5		0.4		-
Non-industrial services rendered	"	1.6		1.3		to enoig s t brat
Goods merchanted or factored	"	97.2		28.5		_ bno
Total sales and work done	2.43	697.6		414.8		774.2
Increase during the year, work in progress and goods on hand for sale	AE OUBAEA	12.6		23.4		Yorkshire and Humberside
Gross output	66.7	710.2		438.2		774.2
Purchases of materials for use in pro- duction, and packaging and fuel	1.8 8.101 8.60 0.181	242.7		198.7		14.4
Purchases of goods for merchanting or		272.7		130.7		736.1767502
factoring	"	75.9		22.4		
Increase during the year, stocks of	73.1 6.8	10,4		8.8		
materials, stores and fuel	NB" EBIT	8.8.2		2.1		North West
Cost of industrial services received	7,216.0 96.7	18.2		11.4		93.2
Net output	12.3 "1.0	381.7		207.9		666.6
Total employment	Thousand	23.9		12.1		17.3
Net output per head	E OF B. VAS/	15,983		17,203		38,471
Cost of non-industrial services received						
Hire of vehicles, plant and			40.7			
machinery	£ million	6.2		2.9		10.8
Rents of industrial and commercial buildings	ipiokoss and working pro- 22 dinas, vehicles and pisnt r	5.0		2.0		24.4
Commercial insurance premiums	divise further ranged strains	3.1		2.5		3.8
Bank charges	ate of each region was off a cost was treated similar	1.0		0.5		0.3
Other non-industrial services	"	36.0		28.6		52.2
icensing of motor vehicles	"	0.3		0.2		0.1
Rates, excluding water rates		6.7		3.6		13.6
Gross value added at factor cost		323.5	52	167.6		561.4
Gross value added at factor cost per head	£	13,547		13,870		32,400

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

Capital expenditure, 1984
All United Kingdom establishments classified to each activity heading within the industry

				£ million
BAG.	38335	3244	3245	3246
44,878		29,5/43		
and and buildings				
New building work		2.3	1.0	0.2
New Ballating Work		73.567	1.0	Gross value added per head
Land and existing building				
				Grost valus added as a perdentage of
Acquisitions		BA 1.1	1.8	0.6
Disposals		0.8	1.8	adopte of hugger 0.1
Net		2.6		0.7
Plant and machinery				
Plant and machinery				
Acquisitions		16.9	8.1	2007/010/110 (2017/2019)
Disposals		TEN 1.1	0.3	evidenego reg as in 1.2 mil agrillo
Net		15.9	7.8	wurmishimbs 190 san 8.1 bmg san W
OVS.E4		ser, e		esvolame issinsta bas issindas
/ehicles				
698		824	4	Net cepital expenditure per head
Acquisitions		3.2	2.9	2.0
Disposals		8 1.9	0.9	0.8
Net		1.2	2.0	1.3
Total net capital expen	diture	19.7	10.8	10.2

PA324

TABLE 10

Stocks and work in progress, 1984
All United Kingdom establishments classified to each activity heading within the industry

			£ million
	3244	3245	3246
10a. Increase during year			
Materials, stores and fuel	8.2	2.1	<u>-</u>
Work in progress	8.3	24.6	_
Goods on hand for sale	4.3	-1.2	
Total	20.9	25,5	-
10b. Value at end of year			
Materials, stores and fuel	52.9	29.6	
Work in progress	104.9	108.3	_
Goods on hand for sale	43.8	8.7	_
Total	201.5	146.5	_

TABLE 11

Operating ratios, 1984 All United Kingdom establishments classified to each activity heading within the industry

Manual Control of the	Unit	3244	3245	3246
	BASE	3244	1	
Gross output per head	£	29,743	36,266	44,678
Net output per head	£	15,983	17,203	38,471
Gross value added per head	£	13,547	13,870	32,400
Gross value added as a percentage of gross output	H. %	46	38	and the 173
Ratio of gross output to stocks		8.00 3.5	3.0	C - possis
Wages and salaries as a percentage of gross value added	%	61	56	41
Ratio of operatives to administrative, technical and clerical employees		037.1.1	1,1	0.1
Wages and salaries per operative	8.0 £	7,431	7,138	11,936
Wages and salaries per administrative, technical and clerical employee	£	9,128	8,504	13,570
Net capital expenditure per head	£	824	893	589
Net capital expenditure as a percentage of gross value added	6.0 %	6.1 6	6	4 2 gal Q
	0.0			Net

PA324

Printed by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 736740 C5 Cdf 41 6/86



HMSO publications are available from:

HMSO Publications Centre

(Mail and telephone orders only)
PO Box 276, London SW8 5DT
Telephone orders (01) 622 3316 (queuing system in operation)
General enquiries (01) 211 5656 (queuing system in operation)

HMSO Bookshops

49 High Holborn, London, WC1V 6HB (01) 211 5656 (Counter service only) 258 Broad Street, Birmingham, B1 2HE (021) 643 3757 Southey House, 33 Wine Street, Bristol, BS1 2BQ (0272) 24306/24307 9—21 Princess Street, Manchester, M60 8AS (061) 834 7201 80 Chichester Street, Belfast, BT1 4JY (0232) 234488 13a Castle Street, Edinburgh, EH2 3AR (031) 225 6333

HMSO's Accredited Agents (see Yellow Pages)

And through good booksellers

'Brief extracts from this publication may be reproduced provided the source is fully acknowledged. Proposals for reproduction of larger extracts should be addressed to the Librarian, Business Statistics Office, Government Buildings, Cardiff Road, Newport, Gwent NP9 1XG.'

© Crown copyright 1986 First published 1986

£5.85 net ISBN 0 11 513890 0