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BUSINESS STATISTICS OFFICE

Business Monitor

Report on the Census of Production

Mineral oil processing



HMSO



A 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.

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PA140

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1985

Mineral oil processing

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

		vari
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	38
PA221	Iron and steel industry	-1
PA222	Steel tubes	1
PA223	Drawing, cold rolling and cold forming of steel	-2
PA224	Non-ferrous metals industry	C
PA231	Extraction of stone, clay, sand and gravel	-18
PA239	Extraction of miscellaneous minerals (including salt)	-6
PA241	Structural clay products	-1
PA242	Cement, lime and plaster	0
PA243	Building products of concrete, cement or plaster	-9
PA244	Asbestos goods	0
PA245	Working of stone and other non-metallic minerals	-2
PA246	Abrasive products	-6
PA247	Glass and glassware	2
PA248	Refractory and ceramic goods	1
PA251	Basic industrial chemicals	0
PA255	Paints, varnishes and printing ink	1
PA256	Specialised chemical products mainly for industrial and agricultural purposes	1
PA257	Pharmaceutical products	1
PA258	Soap and toilet preparations	0
PA259	Specialised chemical products mainly for household and office use	0
PA260	Production of man made fibres	0
PA311	Foundries	-4
PA312	Forging, pressing and stamping	0
PA313	Bolts, nuts, etc; springs; non-precision chains; metals treatment	0
PA314	Metal doors, windows etc	2
PA316	Hand tools and finished metal goods	-1
PA320	Industrial plant and steelwork	4
PA321	Agricultural machinery and tractors	-1
PA322	Metal-working machine tools and engineers' tools	-1
PA323	Textile machinery	0
PA324	Machinery for the food, chemical and related industries; process engineering contractors	2
PA325	Mining machinery, construction and mechanical handling equipment	3
PA326	Mechanical power transmission equipment	14
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and dry cleaning machinery	-4
PA328	Miscellaneous machinery and mechanical equipment	0
A329	Ordnance, small arms and ammunition	0
A330	Manufacture of office machinery and data processing equipment	7
A341	Insulated wires and cables	2
A342	Basic electrical equipment	1
A343	Electrical equipment for industrial use, and batteries and accumulators	3
A344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	
	passive electronic components	2
A345	Miscellaneous electronic equipment	3
A346	Domestic-type electric appliances	1
A347	Electric lamps and other electric lighting equipment	13
A351	Motor vehicles and their engines	0

PA352 Motor vehicle bodies, trailers and caravans

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

Employment

		percentage variation
PA353	Motor vehicle parts	_2 _2
PA361	Shipbuilding and repairing	country for the emission of the east of the
PA362	Railway and tramway vehicles	
PA363	Cycles and motor cycles	0
PA364	Aerospace equipment manufacturing and repairing	0
PA365	Miscellaneous vehicles	a deserve benerillanyous 2
PA371	Measuring, checking and precision instruments and apparatus	4
PA372	Medical and surgical equipment and orthopaedic appliances	is specifically as -8 to 3%
PA373	Optical precision instruments and photographic equipment	Net wife see that entrees the 1
PA374	Clocks, watches and other timing devices	Americal Comments
PA411	Organic oils and fats	
PA412	Slaughtering of animals and production of meat and by-products	to conference of the contract
PA413	Preparation of milk and milk products	-5
PA414	Processing of fruit and vegetables	
PA415	Fish processing	a sense of the service—4
PA416	Grain milling	—7 14
PA419	Bread, biscuits and flour confectionery	0
PA420	Sugar and sugar by-products	-2
PA421	Ice-cream, cocoa, chocolate and sugar confectionery	—2 —5
PA422	Animal feeding stuffs	2
PA423	Starch and miscellaneous foods	0
PA424	Spirit distilling and compounding	2
PA426	Wines, cider and perry	0
PA427	Brewing and malting	-1
PA428	Soft drinks	0
PA429	Tobacco industry	-2
PA431	Woollen and worsted industry	3
PA432	Cotton and silk industries Throwing, texturing, etc. of continuous filament yarn	16 46 19 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19
PA433	Spinning and weaving of flax, hemp and ramie	-3
PA434	Jute and polypropylene yarns and fabrics	0
PA435 PA436	Hosiery and other knitted goods	3
PA430	Textile finishing	assembly under the ference of 123
PA437	Carpets and other textile floorcoverings	1
PA439	Miscellaneous textiles	3
PA441	Leather (tanning and dressing) and fellmongery	−5
PA442	Leather goods	8
PA451	Footwear	2
PA453	Clothing, hats and gloves	7
PA455	Household textiles and other made-up textiles	-2
PA456	Fur goods	–27
PA461	Sawmilling, planing, etc. of wood	_17
PA462	Manufacture of semi-finished wood products and further processing and	treatment of wood -4
PA463	Builders carpentry and joinery	—5
PA464	Wooden containers	−6
PA465	Miscellaneous wooden articles	4
PA466	Articles of cork and plaiting materials, brushes and brooms	The state of the s
PA467	Wooden and upholstered furniture and shop and office fittings	in gather configuration and the -1 Tel
PA471	Pulp, paper and board	ut sp. 1 coars, 1981 - 1985
PA472	Conversion of paper and board	3
PA475	Printing and publishing	successful minimum forms than 1 5
PA481	Rubber products	
PA483	Processing of plastics .	2
PA491	Jewellery and coins	oyoten, toppost costs; cumput, ner to
PA492	Musical instruments	consideration to extend on the -5, at
PA493	Photographic and cinematographic processing laboratories	
PA494	Toys and sports goods	area dinementaria la sieva =1
PA495	Miscellaneous manufacturing industries	67
PA500	Construction	
PA 100	Cummany tables	

London: Her Majesty's Stationary Office

The information in this report relates to establishments classified to the Mineral oil processing industry, Group 140 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

1401 Mineral oil refining

Refining crude and process oils or shale oil for the derivation of refined or partly refined petroleum products by distillation, redistillation or unfinished petroleum products, cracking or other processes.

1402 Other treatment of petroleum products (excluding petrochemicals manufacture)

Processing, blending and compounding of mineral, animal and vegetable oils and greases other than at petroleum refineries.

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

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

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EXPLANATORY NOTES AND DEFINITIONS

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.

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

COVERAGE

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

8. Under the sampling arrangements agreed for the 1985 Census, forms were despatched to all establishments with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for establishments in the 20 to 49 and 50 to 99 employment size bands. For industries where there were few units in the sample size band or where response in earlier years was poor, it was necessary to increase the sample. About 16,800 forms were despatched to production establishments in the United Kingdom for the 1985 Census.

PERIOD COVERED

Establishments were asked to make returns for the calendar year 1985 but, where this was not possible, returns for business years ending between 6 April 1985 and 5 April 1986 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

ESTIMATION

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 clearly marked.

SUPPRESSION OF INFORMATION RELATING TO

INDIVIDUAL UNDERTAKINGS

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."

15. 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 1985

16. The 1985 Census was a slimline one with fewer establishments receiving inquiry forms than in 1984, due to the increased use of sampling. The additional questions in the 1984 Census relating to road transport costs, and postal and telecommunications costs

SYMBOLS USED

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

not available

nil or less than half the final digit shown

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

BOUNDING OF FIGURES

Figures in the tables have been rounded to the nearest final digit where necessary and, in these instances, the sum of the constituent items may not always agree exactly with the total

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

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

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. allowance is made for depreciation, amortisation

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 The figures for disposals are net of any such professional fees

on NEW BUILDING WORK

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

on PLANT AND MACHINERY, VEHICLES

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

CAPITAL GOODS PRODUCED FOR ESTABLISHMENTS' OWN LISE

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

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

COST OF NON-INDUSTRIAL SERVICES RECEIVED

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

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 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

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.

ADMINISTRATIVE, TECHNICAL AND CLERICAL

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

OPERATIVES

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

WORKING PROPRIETORS

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

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.

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

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. PUR MERCHANTING OR FACTORING PURCHASES OF GOODS FOR

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

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

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

WAGES AND SALARIES

44. This represents amounts paid during the year to ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed for this purpose from government sources, are included. No deduction is made for income tax or employees' national insurance contributions etc. Payments to WORKING PROPRIETORS, payments in kind, travelling expenses, lodging allowances etc. and EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. are excluded.

WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

WORK IN PROGRESS

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

PA140

Output and costs, 1981 1985 All United Kingdom establishments classified to the industry (a)

	Unit	1981	1982	1983	1984	1985	
Enterprises	Number	158	147	148	139(b)	147	
Establishments		189	175	175	166(b)	175	
Sales of goods produced	£ million	11,853.1	12,769.8	12,641.9	16,252.3(c)	14,072.3	
Work done and industrial services rendered		64.7	147.7	238.0	254.3	251.6	
Capital goods produced for establishments' own use		4.8	5.6	7.3	7.6	6.1	
Non-industrial services rendered		16.2	37.8	39.9	36.3	38.9	
Goods merchanted or factored	"	830.2	1,022.0	1,459.7	(c)	1,496.1	
`Total sales and work done		12,769.0	13,983.0	14,386.7	16,550.5	15,864.9	
Increase during the year, work in progress and goods on hand for sale		105.5	-133.4	-68.4	169.3	-143.5	
Gross output	"	12,874.5	13,849.5	14,318.3	16,719.8	15,721.4	
Purchases of materials for use in production, packaging and fuel		10,053.4	11,004.1	10,903.8	12,886.7	12,506.5	
Purchases of goods for merchanting or factoring		810.7	1,000.7	1,454.5	transio ka anii maddir Josef Sein (d. €660) Mindirik Zalaci (d. 6	1,461.0	
Increase during the year, stocks of materials, stores and fuel		-18.5	-116.2	-59.7	1.9	-38.1	
Cost of industrial services received		84.4	124.3	139.6		193.4	
Excise payments etc.(net)		1.6	6.6	2.9	4.9	3.7	
Net output		1,905.8	1,597.7	1,757.8	1,458.6	1,518.7	
Total employment	Thousand	23.4	20.8	19.4	17.5	15.8	
Net output per head	£	81,303	76,695	90,836	83,507	96,306	
Cost of non-industrial services received							
Hire of vehicles, plant and machinery	£ million	11.5	53.4	57.6	51.6	54.4	
Rents of industrial and commercial buildings		2.1	2.8	3.9	6.2	5.6	
Commercial insurance premiums		13.7	16.9	13.0	12.1	12.9	
Bank charges		0.1	0.2	0.4	0.2	0.3	
Other non-industrial services		72.3	83.7	95.6	100.3	95.3	
Licensing of motor vehicles		0.8	1.1	1.3	1.1	1.2	
Rates, excluding water rates	•	33.6	38.7	37.9	35.0	36.4	
Gross value added at factor cost		1,771.8	1,400.9	1,547.9	1,252.0	1,312.5	
Gross value added at factor cost per head	£	75,584	67,248	79,989	71,680	83,229	

⁽a) Satisfactory returns accounted for 92 per cent of employment within the industry in 1985.

TABLE 2

Capital expenditure, 1981-1985
All United Kingdom establishments classified to the industry

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						£ million
vices surcess of	1981	1982	1983	19	1985	COLUMN COLUMN TO THE
and and buildings						
New building work	20.1	8.5	6.8	Jeroř 6	8.0	
Land and existing buildings						
Acquisitions	0.8	1.0	1.2	2	2.2 1.3	
Disposals	0.1	1.2	1.2	ive and c	1.0	
Net	20.8	8.3	6.8	7	7.7 8.3	
Plant and machinery						
Acquisitions	389.1	228.6	189.7	(8.0) 179	9.0 252.0	
Disposals	2.1	1.5	1,1	(E.O. 1	1.9 0.7	
Net	387.0	227.1	188.6	177	7.1 251.3	
Vehicles		4.4				
Acquisitions	5.3	4.5	4.5	8-24-115019	4.6 5.2	
Disposals	0.9	0.8	1.4	*	0.7 0.9	
Net	4.4	3.7	3.2	1024 Nas	3.8 4.3	
Total net capital expenditure	412.2	239.1	198.6	188	3.6 263.9	

TABLE 3

Stocks and work in progress, 1981-1985 All United Kingdom establishments classified to the industry

						£ million
	1981	1982	1983	1984	1985	Value at end of 1985
			Increase during	year		
Materials, stores and fuel	-18.5	-116.2	-59.7	1.9	-38.1	656.5
Work in progress	85.9	-73.5	-41.4	65.0	-52.8	347.9
Goods on hand for sale	19.6	-59.9	-27.0	104.2	-90.7	573.0
Total	87.0	-249.6	-128.0	171.2	-181.6	1,577.3

⁽b) Use of a new register of businesses for 1984 has affected the number of enterprises and establishments. Further information is given on page 2.

⁽c) Goods merchanted or factored included in sales of goods produced.

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1985

All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish- ments	Enter- prises (b)	Employment			Wages and sa	laries (c)		
	mome	(0)							
			Total, including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	tendings	Administration technical and clerical	
						Total	per head	Total	per head
	5 <u>8</u>		<u> </u>		Thousand	£ million	£	£ million	£
	Number	Number	Thousand	Thousand	Inousand	1 mmon	-	L IIIIIIOII	Miles
1-9	84	80	0.3)						
10-19	23	23	0.3)	1.2	1.2	12.2	10,067	12.7	10,210
20-49	19	18	0.5)	1.2	1.2	12.12	10,00	19.6	16W *
50-99	18	16	1.3)						
100-199	11	11	1.6	0.9	0.7	9.7	11,168	8.4	11,966
200-299	8	8	2.1	1.0	1,1	11.4	11,309	12.3	11,550
300-749	7	7	3.7	2.2	1.5	26.8	12,333	23.0	15,288
750-Plus	5	4	6.0	4.1	1.8	64.5	15,551	34.2	18,631

Total	175	147	15.8	9.4	6.3	124.6	13,241	90.5	14,267

(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.

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

(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running costs of canteens are excluded from the table but were estimated for the industry at £42.4 million.

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

Total sales and work done	Gross output	Net output		Gross value added at factor cost		Net capita expenditui	
		Total	per head	Total	per head		
£ million	£ million	£ million	£	£ million	£	£ million	£ million
1,057.2	1,057.9	111.2	45,136	(d)	(d)	5.9	
			126.4				
1,185.4	1,176.3	240.6	152,553	299.4(d)	74,850(d) 13.7	7 112.3
1,365.4	1,349.2	93.9	45,276	59.4	28,628	5.9	135.5
4,670.1	4,668.7	554.7	150,857	494.5	134,488	104.6	6 417.1
7,586.9	7,469.4	518.4	86,703	459.3	76,819	133.8	796.9

TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1985 Census by number of returns and total employment

Accounti	ng year ended	Perce recei	entage of tot	al returns	entage of total loyment	Fotal sates
1985	April 6-30		2800 (68)	Delg.	-	enció
	May		3.7		0.4	
	June		-		- postate postate	
	July		1.9		0.2	
	August		- 10		per - June	
	September		3.7		0.7	
	October		3.7		0.7	
	November		-		-	
	December		72.2		89.0	
1986	January		297		1.000000.1	
	February		-		-	
	1 March - 5 April		14.8		9.1	

TABLE 6

Operating ratios, 1981-1985

All United Kingdom establishments classified to the industry

	Unit	1981	1982	1983	1984	1985
					-	-
Gross output per head	£	549,229	664,820	739,928	957,222	996,918
Net output per head	£	81,303	76,695	90,836	83,507	96,306
Gross value added per head	£	75,584	67,248	79,989	71,680	83,229
Gross value added as a percentage of gross output	x	14	10	11	7	8
Ratio of gross output to stocks		6.5	7.8	8.6	9.1	10.0
Wages and salaries as a percentage of gross value added	x	12	15	14	17	16
Ratio of operatives to administrative, echnical and clerical employees		1.7	1.7	1.5	1.5	1.5
Wages and salaries per operative	£	8,143	9,353	10,233	11,559	13,241
Wages and salaries per administrative, technical and clerical employee	£	9,710	10,879	12,082	13,022	14,267
Net capital expenditure per head	£	17,583	11,476	10,261	10,800	16,733
Net capital expenditure as a percentage of gross value added	*	23	17	13	15	20

Regional distribution of employment,net capital expenditure,net output and gross value added at factor cost,1985 All United Kingdom establishments classified to the industry

Area		Total employme (a)	nt OF	Net capital expenditure (b)		Net outpo (c)	ıt	Gross val added at factor cos (c)	lue st s)zanatgren
or and a realism buildings	8-, SE	Thousand	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	of United Kingdom
Standard regions of England									
North		0.2	1.5	1.7	0.6	25.0	1.6 06	22.2	1.7
Yorkshire and Humberside		2.3	14.6	68.4	25.9	244.8	16.1	204.8	15.6
East Midlands		0.3	2.2	0.6	0.2	8.1	0.5	6.3	0.5
East Anglia			\$.8			•	elsa val b	ned on choc	ig time a cortpi
South East		4.0	25.4	107.8	40.8	398.3	26.2	361.6	27.5
South West			• .8	* 12.05	• "		E3G 61 820	aternals for ung sind fund	on to second packag
West Midlands		1.2	7.7	5.6	2.1	55.3	3.6	45.1	3.4
North West		3.4	21.8	30.9	11.7	340.1	22.4	290.7	22.1
the state and the second			9. V	247.6	00.5	1 002 2	71.2	934.4	71.2
England		12.0	75.9	217.6	82.5	1,082.2	71.3		
Wales		1.8	11.6	28.7	10.9	363.7	23.9	325.8	24.8
Scotland		•	V. 68	1. 32	•	•	•	•	kogran tsi
Great Britain			7.0		Sweet Street 5			1200	javyslgani lis
Northern Ireland		86	202	123		•	291	bead ustas leatin	ng mgan m n of non-indu
United Kingdom		15.8	100.0	263.9	100.0	1,518.7	100.0	1,312.5	100.0

- (a) Average number employed during the year, including full and part-time employees and working proprietors.
- (b) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
- (c) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

PA140

TABLE 9

Capital expenditure, 1985
All United Kingdom establishments classified to each Activity Heading within the industry

•	1	21	n:	_	

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		1401	1402	
Land and buildings				
New building work		4.1	3.9	
Land and existing b	uildings			
Acquisitions		0.4	0.9	
Disposals		008.0.2	0.8	
Net		4.2	4.0	
Plant and machinery				
Acquisitions		242.2	9.8	
Disposals		0.7	-	
Net		241.5	9.8	
Vehicles				
Acquisitions		2.4	2.8	
Disposals		0.3	0.6	
Net		839 2.1	2.2	
Total net capital	expenditure	247.8	16.0	

TABLE 10

Stocks and work in progress, 1985 All United Kingdom establishments classified to each Activity Heading within the industry

-					'n	-		
E		¥	٦		4	п	0	
_	۰		ш	۰			u	и

	1401		1402
10a Increase during year		Serdiff Road	
Materials, stores and fuel	-37.9		-0.2
Work in progress	-53.1		0.3
Goods on hand for sale	-95.1		4.3
Total	-186.1		4.5
10b Value at end of year			
Materials, stores and fuel	601.9		54.6
Work in progress	347.2		0.7
Goods on hand for sale	519.3		53.7
Total	1,468.4		109.0

Output and costs, 1985
All United Kingdom establishments classified to each Activity Heading within the industry

	Unit	1401	1402	
Enterprises(a)	Number		mamyolama	
Establishments	76	49	126	
Sales of goods produced	£ million	13,438.9	633.4	
Work done and industrial services rendered	majant nated nadem		4.4	
Capital goods produced for establishments' own use		5.9	0.2	
Non-industrial services rendered	9.88 - "0.0	38.4	0.5	
Goods merchanted or factored		1,458.5	37.6	
Total sales and work done	8.000 .6.8	15,188.9	676.0	
Increase during the year, work in			€./4	
progress and goods on hand for sale	± " ±	-148.2	4.6	
Gross output	E.89C 9.0	15,040.8	680.6	
Purchases of materials for use in pro- duction, packaging and fuel	а не	12,058.3	448.2	
Purchases of goods for merchanting or	0.23	1 426 2	24.8	
factoring	1.23 349.1	1,436.2		
Increase during the year, stocks of materials, stores and fuel		-37.9	-0.2	
Cost of industrial services received	s.sep.re.s	187.6	5.8	
Excise payments etc.(net)	v.ease.o	11. <u>6</u> 28.7 1	8.7	
Net output		1,320.7	9 198.1	
Total employment	Thousa	and 10.7	5.1	
Net output per head	£	123,985	38,699	
Cost of non-industrial services				
received				
Hire of vehicles, plant and machinery	£ milli	on 50.8	3.7	
Rents of industrial and commercial buildings	u han maataniharis	4.6	1.0	725 200 0 9 8 Azerage sumber employe
		11.9	95, 935 (1.1	
Bank charges	n mana kanana	0.1	0.2	To produce the
Other non-industrial services	on wit for stallstan	70.5	24.8	Where a cansus review of
Licensing of motor vehicles	entryologene of elast entryologene of elast	0.7	0.5	asm case asompt may or a red benigate, saw notes.
Rates, excluding water rates		33.2	better the telegraph	cast is bobbs pulse entitle
Gross value added at factor cost		1,148.9	163.6	
Gross value added at factor cost per head	£	107,860	31,964	7 2.5

⁽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.

Operating ratios, 1985

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

	Unit		1401	1402		
				9.50		
Gross output per head		£	1,412,015	132,985		
Net output per head		£	123,985	38,699		
Gross value added per head		£	107,860	31,964		
Gross value added as a percentage of gross output		%	8	24		
Ratio of gross output to stocks			10.2	6.2		
Wages and salaries as a percentage of gross value added		%	14	32		
Ratio of operatives to administrative, technical and clerical employees			1.8	1.0		
Wages and salaries per operative		£	14,525	9,870		
Wages and salaries per administrative, technical and clerical employee		£	16,779	10,421		
Net capital expenditure per head		£	23,268	3,132		
Net capital expenditure as a percentage of gross value added		%	22	10		

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