BUSINESS STATISTICS OFFICE

PA256 1986

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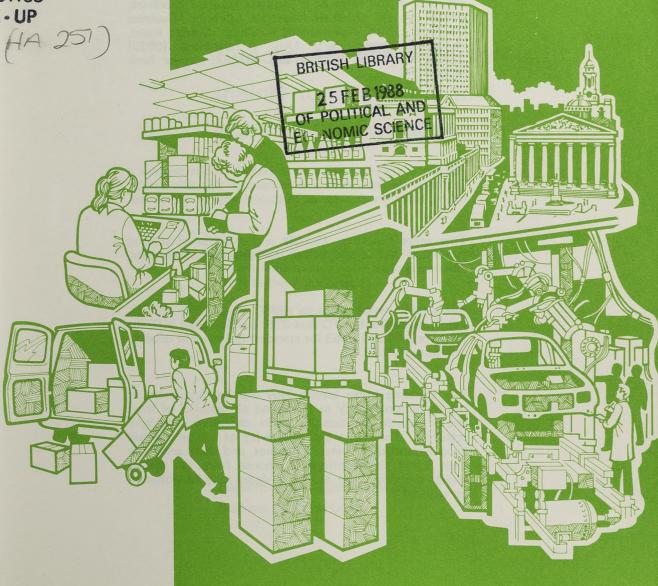
42 (HA 251)

STATISTICS BACK - UP Report on the

Census of Production

Business Monitor

Specialised chemical products mainly for industrial and agricultural purposes



HMSO

A publication of the Government Statistical Service

BUSINESS MONITORS

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

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PA256

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1986

Specialised chemical products mainly for industrial and agricultural purposes

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 Coal extraction and manufacture of solid fuels PA111 PA120 Coke ovens Extraction of mineral oil and natural gas PA130 Mineral oil processing PA140 Production and distribution of electricity PA161 Public gas supply PA162 Water supply industry PA170 Extraction and preparation of metalliferous ores PA210 Iron and steel industry PA221 PA222 Steel tubes Drawing, cold rolling and cold forming of steel PA223 PA224 Non-ferrous metals industry PA231 Extraction of stone, clay, sand and gravel Extraction of miscellaneous minerals (including salt) PA239 PA241 Structural clay products PA242 Cement, lime and plaster Building products of concrete, cement or plaster PA243 PA244 Asbestos goods Working of stone and other non-metallic minerals PA245 PA246 Abrasive products PA247 Glass and glassware Refractory and ceramic goods PA248 PA251 Basic industrial chemicals PA255 Paints, varnishes and printing ink Specialised chemical products mainly for industrial and agricultural purposes PA256 PA257 Pharmaceutical products PA258 Soap and toilet preparations Specialised chemical products mainly for household and office use PA259 PA260 Production of man made fibres PA311 Foundries Forging, pressing and stamping PA312 PA313 Bolts, nuts, etc; springs; non-precision chains; metals treatment PA314 Metal doors, windows etc Hand tools and finished metal goods PA316 PA320 Industrial plant and steelwork PA321 Agricultural machinery and tractors Metal-working machine tools and engineers' tools PA322 PA323 Textile machinery Machinery for the food, chemical and related industries; process engineering contractors PA324 Mining machinery, construction and mechanical handling equipment PA325 PA326 Mechanical power transmission equipment 14 PA327 Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and dry cleaning machinery PA328 Miscellaneous machinery and mechanical equipment PA329 Ordnance, small arms and ammunition PA330 Manufacture of office machinery and data processing equipment PA341 Insulated wires and cables PA342 Basic electrical equipment PA343 Electrical equipment for industrial use, and batteries and accumulators Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components PA345 Miscellaneous electronic equipment PA346 Domestic-type electric appliances

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		percenta
		variation
PA353	Motor vehicle parts	-2
PA361	Shipbuilding and repairing	0
PA362	Railway and tramway vehicles	0
PA363	Cycles and motor cycles	0
PA364	Aerospace equipment manufacturing and repairing	0
PA365	Miscellaneous vehicles	2
PA371	Measuring, checking and precision instruments and apparatus	4
PA372	Medical and surgical equipment and orthopaedic appliances	-8
PA373 PA374	Optical precision instruments and photographic equipment	1
PA374	Clocks, watches and other timing devices Organic oils and fats	0
PA412	Slaughtering of animals and production of meat and by-products	No landon l
PA413	Preparation of milk and milk products	-5
PA414	Processing of fruit and vegetables	0
PA415	Fish processing	-4
PA416	Grain milling	-7
PA419	Bread, biscuits and flour confectionery	14
PA420	Sugar and sugar by-products	0
PA421	Ice-cream, cocoa, chocolate and sugar confectionery	-2
PA422	Animal feeding stuffs	-5
PA423	Starch and miscellaneous foods	2
PA424	Spirit distilling and compounding	0
PA426	Wines, cider and perry	2
PA427 PA428	Brewing and malting Soft drinks	0
PA429	Tobacco industry	-1
PA431	Woollen and worsted industry	0
PA432	Cotton and silk industries	-2 3
PA433	Throwing, texturing, etc. of continuous filament yarn	-3
PA434	Spinning and weaving of flax, hemp and ramie	_3
PA435	Jute and polypropylene yarns and fabrics	0
PA436	Hosiery and other knitted goods	3
PA437	Textile finishing	3
PA438	Carpets and other textile floorcoverings	1
PA439	Miscellaneous textiles	3
PA441	Leather (tanning and dressing) and fellmongery	-5
PA442 PA451	Leather goods Footwear	8
PA453	Clothing, hats and gloves	2
PA455	Household textiles and other made-up textiles	7
PA456	Fur goods	-2
PA461	Sawmilling, planing, etc. of wood	-27 -17
PA462	Manufacture of semi-finished wood products and further processing and treatment of wood	-17 -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	7
PA467	Wooden and upholstered furniture and shop and office fittings	-1
PA471	Pulp, paper and board	1
A472	Conversion of paper and board	3
PA475 PA481	Printing and publishing	5
A483	Rubber products Processing of plantics	-1
A491	Processing of plastics Jewellery and coins	2
A492	Musical instruments	Helb le tolgal
A493	Photographic and cinematographic processing laboratories	-5
A494	Toys and sports goods	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A495	Miscellaneous manufacturing industries	67
A500	Construction	0/
A1002	Summary tables	

PA347

PA351

Electric lamps and other electric lighting equipment

Motor vehicles and their engines

PA352 Motor vehicle bodies, trailers and caravans

13

0

PA256 SPECIALISED CHEMICAL PRODUCTS MAINLY FOR INDUSTRIAL AND AGRICULTURAL PURPOSES

PA256

The information in this report relates to establishments classified to the Specialised chemical products mainly for industrial and agricultural purposes industry, Group 256 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:—

2562 Formulated adhesives and sealants

Manufacture of formulated synthetic resin and natural and synthetic rubber adhesives (i.e. containing solvents, plasticisers, etc.). Unformulated synthetic resin adhesives are classified to Group 251. Manufacture of gelatine, glue, size, gum, paste, etc., including preliminary processing. Manufacture of sealants.

2563 Chemical treatment of oils and fats

Manufacture of primary products of sperm oil (including higher fatty alcohols), stearine and glycerine. Fat splitting and distillation.

Recovery of fat is classified to Group 412.

2564 Essential oils and flavouring materials

Manufacture of essential oils (other than turpentine). Manufacture of natural and artificial flavourings and perfume concentrates.

2565 Explosives

Manufacture of explosives, detonators, fuses (except shell fuses), percussion caps, flares and signal rockets. Manufacture of fireworks and matches. Manufacture of live ammunition is classified to Group 329 and cellulose nitrate to Group 251.

2567 Miscellaneous chemical products for industrial use

Manufacture of industrial gases, products for the treatment of leather and textiles, tanning agents and other chemical products not elsewhere specified for industrial use including waxes and foundry preparations. Chemicals specially prepared for laboratory use are included.

2568 Formulated pesticides

Manufacture of formulated pesticides, sheep dips, weedkillers and other phytosanitary products.

2569 Adhesive film, cloth and foil

Manufacture of adhesive film of plastics and cellulose, adhesive cloth and adhesive foil (other than for medical or surgical purposes for which see Group 257). Non-adhesive film, cloth and foil, when chemically treated for use as an insulating material, are also included. Adhesives paper is classified to Group 472.

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

INTRODUCTION

1. These notes give basic information to help with the interpretation of tables in this Industry Report. More general information about the Census is given in a separate Business Monitor — Report on the Census of Production, Introductory Notes (PA1001).

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

REPORTING UNIT

3. 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.

4. 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.

THE REGISTER

5. 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

6. 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.

COVERAG

7. 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 1986 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 16,200 forms were despatched to production establishments in the United Kingdom for the 1986 Census.

PERIOD COVERED

9. Establishments were asked to make returns for the calendar year 1986 but, where this was not possible, returns for business years ending between 6 April 1986 and 5 April 1987 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 non-responders, 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.

13. 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

14. 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."

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 1986

16. The 1986 Census, like that for 1985, was a slimline one. Additional questions were asked for numbers of computer employees, costs of computer equipment purchased and, for larger establishments only, costs of hiring, leasing or renting computer equipment.

SYMBOLS USE

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

R revised

ROUNDING 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 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. figures include non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or

on LAND AND EXISTING BUILDINGS

This represents the value of freeholds and the value or premium payable or receivable for leaseholds acquired or disposed 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 payable.

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.

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 figures for disposals exclude amounts written off for capital assets which are scrapped

CAPITAL GOODS PRODUCED FOR ESTABLISHMENTS' OWN USE

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 excluded

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 and surveyors other than in collinearing the 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 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

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 **FMPLOYEES**

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.

OPERATIVES

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 commis-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

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

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

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

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

STOCKS

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, 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

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 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

PA256

TABLE 2

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Output and costs, 1982-1986 All United Kingdom establishments classified to the industry (a)

the restau and desirations grown in the letter of their rather to respect derive as to	Unit	1982	1983	1984	1985	1986
Enterprises	Number	621	644	811(b)	829	845
Establishments	and it is the	709	736	916(b)	926	947
Sales of goods produced	£ million	2,292.2	2,495.0	2,967.7	3,066.8	3,094.2
Work done and industrial services rendered		42.0	40.3	47.1	42.3	30.8
Capital goods produced for establishments'own use		5.1	4.1	6.1	7.8	8.7
Non-industrial services rendered		58.9	105.1	111.3	110.1	113.0
Goods merchanted or factored		628.9	774.6	768.4	1,132.8	1,074.0
Total sales and work done		3,027.1	3,419.1	3,900.7	4,359.8	4,320.8
Increase during the year, work in progress and goods on hand for sale		-1.7	29.5	54.8	31.0	-3.0
Gross output		3,025.4	3,448.5	3,955.4	4,390.8	4,317.7
Purchases of materials for use in production, packaging and fuel		1,266.7(c)	1,390.9(c)	1,629.0	1,721.3	1,652.5
Purchases of goods for merchanting or factoring		487.4	602.1	557.4	865.7	796.7
Increase during the year, stocks of materials, stores and fuel		5.8	18.4	25.4	11.5	-2.0
Cost of industrial services received	and Land Park	53.1	52.3	56.6	55.5	68.9
Excise payments etc.(net)	ve withical	(c)	(c)	7.2	10.1	9.1
Net output		1,223.9	1,421.6	1,730.6	1,749.7	1,788.6
Total employment	Thousand	50.6	49.5	51.2(b)	47.0	46.6(d)
Net output per head	f	24,197	28,747	33,801	37,213	38,410
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	16.5	12.3	14.7	15.3	16.6(e)
Rents of industrial and commercial buildings	679#0 c one was	8.9	9.3	11.6	9.9	9.9
Commercial insurance premiums		11.5	12.1	12.7	13.4	18.1
Bank charges	700 - 1000 0	1.2	1.6	1.9	2.0	2.7
Other non-industrial services		152.0	170.8	205.5	212.3	227.9
Licensing of motor vehicles		1.6	1.6	2.2	2.0	2.1
Rates, excluding water rates		18.0	18.6	20.5	19.8	24.0
Gross value added at factor cost	ALC: 001, 505	1,014.2	1,195.3	1,461.5	1,475.1	1,487.4
Gross value added at factor cost per head	£	20,050	24,171	28,544	31,374	31,941

(a) Satisfactory returns accounted for 80 per cent of employment within the industry in 1986.

(b) 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 1% 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.

(c) Excise payments, etc., (net) included in purchases of materials for use in production, packaging and fuel.

(d) Returned figures gave a total of 431 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

(e) Returned figures gave a total of £1,476 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

Capital expenditure, 1982-1986
All United Kingdom establishments classified to the industry

					emenderidures La	
	1982	1983	1984	1985	1986	
Colores Constitution Constitution		Feet				
and and buildings						
New building work	12.0	16.8	14.5	23.6	•	
Land and existing buildings						
Acquisitions	5.1	6.1	5.1	10.9	•	
Disposals	2.6	2.4	5.2	1.3	2.4	
Net	14.5	20.5	14.4	33.2	23.4	
lant and machinery						
Acquisitions	82.7	89.1	141.9	164.7	155.0(a)	
Disposals	2.9	7.8	5.1	3.7	9.5	
Net	79.8	81.3	136.8	161.0	145.5	
'ehicles						
Acquisitions	12.8	16.2	17.6	21.1	18.9	
Disposals	3.9	4.5	5.1	6.2	4.5	697 - 697
Net	8.9	11.7	12.5	14.8	14.4	
Total net capital expenditure	103.2	113.5	163.7	209.1	183.3	

(a) Returned figures gave a total of £5,736 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

TABLE 3

Stocks and work in progress, 1982-1986
All United Kingdom establishments classified to the industry

						£ million
	1982	1983	1984	1985	1986	Value at end of 1986
		In	crease during y	ear		
Materials, stores and fuel	5.8	18.4	25.4	11.5	-2.0	233.1
Work in progress	-2.8	0.5	10.2	1.7	0.4	81.7
Goods on hand for sale	an what success telepones Be	29.0	44.5	29.3	-3.5	320.7
Total Inortings Allow by	eza bas eldelieve zatemil	47.8	80.1	42.6	-5.1	635.5
						no to sound od) (d)

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1986

All United Kingdom establishments classified to the industry (a)

Size group	Estab-	Enter- prises	Employmen	nt		Wages and	salaries (c)		
Emarina	ments	(b)							
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	9.7 3 ₁	Administra technical a clerical	
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	f
1-9	571	549	1.9)						
10-19	130	126	1.8)	5.3	5.8	46.5	8,819	66.6	11,520
20-49	101	97	3.4)						zulalde
50-99	56	51	4.1)						
100-199	35	34	4.9	2.5	2.4	21.8	8,762	26.6	10,940
200-299	18	17	4.4	2.2	2.2	23.8	10,650	25.6	11,847
300-399	13	13	4.7	2.3	2.4	22.3	9,596	30.2	12,812
400-499	10	10	4.5	2.5	2.0	20.4	8,143	23.8	12,048
500-749	5	5	3.0	1.6	1.4	17.9	11,370	20.5	14,424
750-1,499	4	4	4.4	2.6	1.8	23.7	9,217	20.0	10,971
1,500-Plus	4	4	9.5	6.3	3.3	64.4	10,270	46.3	14,162

Total	947	845	46.6	25.2	21.2	240.8	9,540	259.6	12,234

⁽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	Gross	Net output		Gross value added at		Net capital expenditure	Total stocks and work in
done	1.0	nonploy/b		factor cost			progress at end of year
		Total	per	Total	per		
			head		head		
£ million	£ million	£ million	£	£ million	£	£ million	£ million
1,095.5	1,092.8	382.8	34,321	(d)	(d)	47.9	148.8
460.9	460.5	161.1	32,748	420.5(d)	26,118(d)	12.5	61.4
663.4	662.3	194.9	44,288	150.9	34,283	26.8	77.2
456.2	455.5	224.7	47,980	190.6	40,691	19.7	77.8
609.2	605.7	276.8	61,738	251.1	56,007	10.7	126.5
270.1	268.7	124.2	41,514	99.3	33,198	21.4	38.8
236.6	241.8	119.0	27,089	102.0	23,213	10.4	38.5
528.9	530.4	305.2	31,976	273.0	28,606	34.0	66.6

4,320.8

4,317.7

1,788.6

38.410

1.487.4

31.941

⁽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 £81.6 million.

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

PA256

TABLE 7

PA256

Percentage analysis of twelve-month periods covered by returns received for the 1986 Census by number of returns and total employment

Accour	nting year ended	Perce	entage of total re ived	eturns	ntage of total syment	nalez lete
1986	April 6-30		0.8		 0.1	and the second
	May		0.8		0.6	
	June		4.5		2.7	
	July		0.8		0.1	
	August		1.5		1.1	
	September		10.6		14.5	
	October		2.3		3.3	
	November		6.1		3.7	
	December		59.1		64.9	
1987	January		2.3		1.1	
	February		0.8		1.2	
	1 March - 5 April		10.6		6.9	

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
				<u> </u>		
Gross output per head	£	59,812	69,735	77,254	93,384	92,721
Net output per head	£	24,197	28,747	33,801	37,213	38,410
Gross value added per head	£	20,050	24,171	28,544	31,374	31,941
Gross value added as a percentage of gross output	ejis x	34	35	37	34	34
Ratio of gross output to stocks		6.5	6.7	6.6	7.0	6.8
Wages and salaries as a percentage of gross value added	x	39	35	32	32	34
Ratio of operatives to administrative, technical and clerical employees		1.2	1.2	1.1	1.2	1.2
Wages and salaries per operative	£	7,168	7,674	8,070R	8,926	9,540
Wages and salaries per administrative, technical and clerical employee	£	8,697	9,605	10,435R	11,301	12,234
Net capital expenditure per head	£	2,041	2,294	3,196	4,447	3,937
Net capital expenditure as a percentage of gross value added	x	10	9	11	14	12

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1986 All United Kingdom establishments classified to the industry

Area		Total		Net cap	ital	Net outp	ut	Gross v	alue
AI Ca		employme	nt	expendi		(c)		added a	t
		(a)		(b)				factor c	ost
18	es		214					(c)	atoliciosis
212.3			0.266		noilles 3	C	nor cont	anillo in alto	per cent
		Thousand	per cent of	£ million	per cent of	£ million	per cent of	£ million	
			United		United		United	lucistit.	United
			Kıngdom		Kıngdom	1	Kingdom		Kingdon
Standard regions of Er	ngland								
North		2.0	4.3			63.3	3.5	50.1	3.4
MOLTH		2.0	7.5			00.0	0.5	30	
Yorkshire and									
Humberside		2,00	385.6			101.2	9/10/	a show bear a	of we Take T
East Midlands		3.1	6.7	8.1	4.4	88.2	4.9	64.7	4.3
C - A A G -			2.9	9.6	5.2	116.4	6.5	106.3	7.1
East Anglia		1.4		9.0	3.2	110.4	0.5	100.5	
South East			287.4			•	•		
South West		3.3	7.0	8.9	4.8	75.9	4.2	58.8	4.0
West Midlands		2.3	4.9			74.6	4.2	56.3	3.8
North West		9.6	20.7	37.0	20.2	371.8	20.8	302.3	20.3
	-2.7		- r.o				, de	ar has 2010	e selections
England		38.3	82.3	152.7	83.3	1,544.6	86.4	1,278.7	86.0
Wales		2.3	4.9	20.3	11.1	111.7	6.2	95.6	6.4
Scotland		5.5	11.9	9.3	5.1	117.0	6.5	99.5	6.7
	3,85		170.2						DATES SAN
Great Britain		46.1	99.1	182.4	99.5	1,773.3	99.1	1,473.8	99.1
Northern Ireland		0.4	. 0.9	1.0	0.5	15.3	0.9	13.5	0.9
							20500	oz lavilenkiu	mon to to
United Kingdom		46.6	100.0	183.3	100.0	1,788.6	100.0	1,487.4	100.0

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

TABLE 8

Output and costs, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

	Unit	2562		2563	2564
Enterprises(a)	Number	200	erapleymu	20	55
Establishments	0.33	214		20	57
Sales of goods produced	£ million	355.0		84.1	212.3
Work done and industrial services rendered bounds	of Olmida Kasadom	0.2		-	1.3
Capital goods produced for establishments' own use	30_6	0.1		0.2	0.4
Non-industrial services rendered		1.7			0.6
Goods merchanted or factored		28.8			32.4
Total sales and work done		385.8		98.8	247.0
Increase during the year, work in progress and goods on hand for sale	4.4	1.6		0.9	2000 Middlands
Gross output		387.4		99.7	250.0
Purchases of materials for use in production, packaging and fuel	10 e o	192.7		54.7	119.2
Purchases of goods for merchanting or factoring	, oc	21.0			25.2
Increase during the year, stocks of materials, stores and fuel		0.1		-2.7	0.3
Cost of industrial services received	E.E8 "	3.6		2.7	3.3
Excise payments etc.(net)		0.3			0.6
Net output	14	170.2		25.5	102.2
Total employment	Thousand	6.4		0.6	3.1
Net output per head	ſ	26,510		40,075	32,599
Cost of non-industrial services					
Hire of vehicles, plant and machinery	£ million	0.00r 2.4		0.1	mohgan Kasarom
Rents of industrial and commercial buildings					mun approprié le
Commercial insurance premiums	iblian" graphs	1.8 21		0.4	embland 1.0
Bank charges		0.2		-	0.2
Other non-industrial services	s, de estimat	35.7		6.2	23.7
Licensing of motor vehicles	of takenbb	0.3		thanges ye	0 4
Rates, excluding water rates		3.4		0.3	1.7
Gross value added at factor cost		123.9		18.5	74.1
Gross value added at factor cost per head	ť	19,302		28,981	23,622

⁽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.

2569	2568		2567	2565
80	80		399	37
eposition in the bits	81		454	40
105.5	539.5		1,579.2	218.6
Acquisitions	•			0.1
0.3	2.2		5.0	0.5
žuV!			6,8,8	0.81.8
Violentium to • loc!	617.5		343.1	10.0
134.5	1,161.2		2,062.5	231.0
Drapasans	1.0		-5.4	-0.8
-1.3	-1.0		2,057.1	230.2
133.1	1,160.2		2,057.1	230.2
51.9	305.8		850.3	77.8
Disposals road	446.7		269.2	6.7
			140.5	
-2.3	5.9		-1.3	-2.0
2. The solitonistics of contraction was a serious	10.8		38.5	•
	-		-0.6	
63.3	402.7		898.4	126.3
2.0	4.0		22.3	7.5
31,515	100,856		39,254	16,871
0.4	2.0		9.8	
0.3	0.8	5,805	4.8	keept.
0.4	1.8		9.4	3.2
0.1	0.3		1.7	0.1
8.2	13.3		128.4	12.3
Work in group ess			1.6	0.1
of a selection break of photos	2.2		12.1	3.6
53.3	382.3		730.5	104.9
26,537	95,746		31,919	14,004

Capital expenditure, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

	Territoria de la Carta de la C	2562		2563	2564
Land and buildings	00 North		300 000	20	186
New building work		0.8		0.9	2.1
Land and existing buildings					
Acquisitions		0.5		-	0.9
Disposals		-		-	0.6
Net		1.3		0.9	3.0
Plant and machinery					
Acquisitions		10.0		1.8	6.0
Disposals		0.5		-	8.0
Net		9.6		1.8	6.0
/ehicles					
Acquisitions		3.0		0.2	0.9
Disposals		1.0		-	0.2
Net		2.0		0.1	0.7
Total net capital expenditure		12.9		2.8	9.6

TABLE 10

Stocks and work in progress, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

		2562		2563	2564
			8-6		8.8
10a Increase during year					
Materials, stores and fuel		0.1		-2.7	0.3
Work in progress		0.4	0.1	0.7	2.0
Goods on hand for sale		1.2		0.1	1.1
Total		1.7		-1.8	3.4
Greates, as added at temper some	95,746		910,1		\$00,51
Ob Value at end of year					
Materials, stores and fuel		21.5		5.1	22.9
Nork in progress		4.7		3.4	5.5
Goods on hand for sale		24.8		4.6	13.3
Total		51.1		13.1	41.7

-	H	ч	u	è	u	ч	L	U	ч	ļ
	_	=	-	_	_	_		_		

69	2569	2568	2567		2565
		29,62	2563	PARE	285
	0.1	60,342	10.7		195.00
Cross value Gosco 65 & Deriverto gross output	to santin	•	1.4		
elsale of the consequence to make	-	0.5	1.4		
.1 respinate to complete this repair		1.7	13.6		2.9
bobbs sulay arou			10		
Ratio of op tratego in admension technical and glorida employe8.		_{8.9} 25.7	101.5		7.3
Wages and salaries per operateur	s1=16	SEA. 8 0.7	7.8200.01		0.5
Wages and salacies per admin y. teolorical and clerical employue	2.7	25.0	93.7		6.8
. No season of the season of .	0.10	0.6	13.4		0.7
babbs salsy zeotg to	0.1	0.3	2.6		0.4
.1	0.1	0.3	10.9		0.3
9	2.9	27.0	118.3		10.0

£ million

2565	2567	2568	2569
	818,18 08,001	n ox.00	et output per head
	25, 726, 537, 26, 537		tross value added per head
-2.0	-1.3	5.9	-2.3 Fugues 220
1.1	€.8 -0.1 _{€.8}	a.s -3.0	-0.7 stoots or sugrou arong to bins
-1.9	-5.3	2.0	Vagor and salaries as parce 3.0-, of 1
-2.8	broof-6.8	ing all 4.9 Bust	atio of operatives revolutions of 3.6-3.6
	Megwallabla.e	containin a	Vages and salaries per operative
13.1 The	97.6	66.6	Vages and estances per administrative, scholes and serious employee estances and sterious employee estances are serious expenditure per freue.
21.6	22.4	21.3	ouen 2.7 og o za omnomenza ferigas rei
17.6	123.2	130.2	7.0
	243.1	218.1	

TABLE 11

PA256

Operating ratios, 1986

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

	Unit	2562	2563	2564	2565
Gross output per head	£	60,342	156,442	79,748	30,741
Net output per head	£	26,510	40,075	32,599	16,871
Gross value added per head	£	19,302	28,981	23,622	14,004
Gross value added as a percentage of gross output	%	32	19	30	46
Ratio of gross output to stocks		7.6	7.6	6.0	4.4
Wages and salaries as a percentage of gross value added	%	52	40	52	69
Ratio of operatives to administrative, technical and clerical employees		0.9	2.2	0.5	3.0
Wages and salaries per operative	£	8,633	10,902	11,097	8,730
Wages and salaries per administrative, technical and clerical employee	£	11,399	12,859	12,744	12,676
Net capital expenditure per head	£	2,007	4,372	3,068	1,330
Net capital expenditure as a percentage of gross value added	%	10	15	13	10

TABLE 11

Operating ratios, 1986

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

	Unit	2567	2568	2569	
Gross output per head	£	89,885	290,567	66,303	
Net output per head	£	39,254	100,856	31,515	
Gross value added per head	£	31,919	95,746	26,537	
Gross value added as a percentage of gross output	%	36	33	40	
Ratio of gross output to stocks		8.5	5.3	8.3	
Nages and salaries as a percentage of gross value added	%	35	11	34	
Ratio of operatives to administrative, echnical and clerical employees		1.0	1.3	1.7	
Vages and salaries per operative	£	10,190	9,044	8,498	
Vages and salaries per administrative, echnical and clerical employee	£	12,464	11,811	10,685	
Net capital expenditure per head	f	5,167	6,751	1,438	
let capital expenditure as a percentage					
of gross value added	%	16	7	5	



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