PA224 1984

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Business Monitor

Report on the Census of Production

Non-ferrous metals industry

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.

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PA224

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1984

Non-ferrous metals industry

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

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

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

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

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

Employment

		percentage variation
PA1001	Introductory notes	
PA111	Coal extraction and manufacture of solid fuels	
PA120	Coke ovens	
PA130	Extraction of mineral oil and natural gas	
PA140	Mineral oil processing	
PA161	Production and distribution of electricity	
PA162	Public gas supply	
PA170	Water supply industry	20
PA210	Extraction and preparation of metalliferous ores	38
PA221	Iron and steel industry	-1
PA222	Steel tubes	-2
PA223	Drawing, cold rolling and cold forming of steel	-2
PA224 PA231	Non-ferrous metals industry Extraction of stone, clay, sand and gravel	-18
PA231 PA239	Extraction of miscellaneous minerals (including salt)	-6
PA239	Structural clay products	-1
PA241	Cement, lime and plaster	0
PA242	Building products of concrete, cement or plaster	-9
PA245	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 PA327	Mechanical power transmission equipment	14
PAJZ/	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and	4
PA328	dry cleaning machinery Miscellaneous machinery and mechanical equipment	-4
PA329	Ordnance, small arms and ammunition	0
PA330	Manufacture of office machinery and data processing equipment	7
PA341	Insulated wires and cables	2
PA342	Basic electrical equipment	1
PA343	Electrical equipment for industrial use, and batteries and accumulators	3
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	Ũ
	passive electronic components	2
PA345	Miscellaneous electronic equipment	3
PA346	Domestic-type electric appliances	1
PA347	Electric lamps and other electric lighting equipment	13
PA351	Motor vehicles and their engines	0
PA352	Motor vehicle bodies, trailers and caravans	-3

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

Employment percentage variation

PA353	Motor vehicle parts	-2 0
PA361	Shipbuilding and repairing	
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	Optical precision instruments and photographic equipment	1
PA374	Clocks, watches and other timing devices	0
PA411	Organic oils and fats	1
PA412	Slaughtering of animals and production of meat and by-products	
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	Brewing and malting	0
PA428	Soft drinks	-1
PA429	Tobacco industry	0
PA431	Woollen and worsted industry	-2
PA432	Cotton and silk industries	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	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	7
PA467	Wooden and upholstered furniture and shop and office fittings	-1
PA471	Pulp, paper and board	1
PA472	Conversion of paper and board	3
PA475	Printing and publishing	5
PA481	Rubber products	-1
PA483	Processing of plastics	2
PA491	Jewellery and coins	1
PA492	Musical instruments	-5
PA493	Photographic and cinematographic processing laboratories	
PA494	Toys and sports goods	-1
PA495	Miscellaneous manufacturing industries	67 ·
PA500	Construction	
PA1002	Summary tables	e pentie egent

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PA224 NON-FERROUS METALS INDUSTRY

PA224

Page

The information in this report relates to establishments classified to the Non-ferrous metals industry, Group 224 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

2245 Aluminium and aluminium alloys

Primary and secondary aluminium and aluminium alloys unwrought

Refining and smelting primary and secondary aluminium and aluminium alloys. 2. Rolled, drawn, extruded and other semi-manufactured aluminium products

Manufacture of plates, sheets, strip, foil, bars, sections, tubes, wire and wire products, powder and similar semi-manufactured products of aluminium and aluminium alloys. Manufacture of aluminium castings and forgings is classified to Group 311 and 312 respectively.

2246 Copper, brass and other copper alloys

Primary and secondary copper and copper based alloys unwrought

Refining and smelting primary and secondary copper, brass, bronze and other copper based alloys, including blister copper. Rolled, drawn, extruded and other semi-manufactured copper and copper alloy products

Manufacture of sheets, strip, plates, circles, wire and wire products (other than insulated wire), rods, bars, sections, tubes and similar semi-manufactured products of copper and copper based alloys. Manufacture of castings of copper and copper alloys is classified to Group 311 and manufacture of stampings and pressings of copper is classified to Group 312.

2247 Other non-ferrous metals and their alloys

Other base non-ferrous metals Refining and smelting base non-ferrous metals and their alloys, other than copper and aluminium. Manufacture of ferro-alloys other than in blast furnaces is included. Manufacture of rolled, drawn or extruded products in these metals. Production of castings is classified to Group 311; production of forgings, stampings and pressings is classified to Group 312.

Precious metals 2.

Refining, smelting and alloying gold, silver, platinum and other precious metals, including the production of bullion.

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 interpret-ation of tables in this Industry Report. More general information about the Census is given in a separate Business Monitor - Report on the Census of Production, Introductory Notes (PA1001).

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

REPORTING UNIT

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

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

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.

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

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.

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

PERIOD COVERED

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

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 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.

Figures which would be likely to disclose particulars relating 15 to an individual undertaking are not published unless the contributor has given written consent for their publication.

CHANGES MADE FOR 1984

The 1984 Census was a benchmark one with a larger number 16 of establishments receiving inquiry forms than had been the case with the previous 4 Censuses. Additional questions, for larger establishments only, asked for information on road transport costs, and postal and telecommunications costs. Coverage of the Census was extended to include, for the first time, establishments classified to activity headings 4121 (slaughterhouses), 4126 (animal by-product processing) and 4930 (photographic and cinematographic processing laboratories).

SYMBOLS USED

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

- 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 shown.

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

20. This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation purposes during the year to which each establishment's return related. The value is inclusive of any amounts received or expected to be received in grants and/or allowances from government sources, statutory bodies or local authorities. Where expenditure is spread over more than one Census year, payments are included in the years in which they were made. Capital expenditure during the year in respect of production units where production had not started before the end of the year and the value of CAPITAL GOODS PRO-DUCED FOR ESTABLISHMENTS' OWN USE by establishments' own staff are included. The value of any assets acquired in taking over an existing business are excluded. The figures include non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

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 The figures for acquisitions include architects' and surveyors' of. fees, legal fees, stamp duties, agents' commissions and Land Registry The figures for disposals are net of any such professional fees fees. pavable.

on NEW BUILDING WORK b.

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

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

CAPITAL GOODS PRODUCED FOR ESTABLISHMENTS' OWN USE

This represents the value of all work of a capital nature 24 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 25. 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

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

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 27. This includes employers' national insurance contributions. including the national insurance surcharge, under the Social Security Pensions Act 1975, commercial insurance premiums for policies providing pensions, superannuation or other retirement benefits. sickness benefits, personal accident benefits, disability benefits or death benefits for employees, including former employees, or their dependents. Also included are contributions to canteens, social centres, children's and holiday homes etc. and the cost of supplying luncheon vouchers

EMPLOYMENT

28. This is the average number of ADMINISTRATIVE, TECH. NICAL 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 employ. ees 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 EMPLOYEES

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

OPERATIVES b.

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 C.

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

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 estim ate of gross value added approaches more closely than NET OUT-PUT the definition of net output or value added in national accounts statistics.

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

NET CAPITAL EXPENDITURE

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

NET OUTPUT

This is a traditional census measure calculated by deducting 36 Form GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTOR-ING, 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 manu facturing and guarrying rights, for technical 'know-how' and for the provision of transport to other organisations. It also includes revenue from staff facilities such as canteens.

OPERATING RATIOS

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

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

These include the cost of raw materials, components, semimanufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to establishments' own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks, rebates etc. Imported goods are included at their full delivered cost. f 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 INDUS-TRIAL 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 estab-42 lishments 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.

STOCKS

This represents the value of goods on hand for sale, including 43. 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

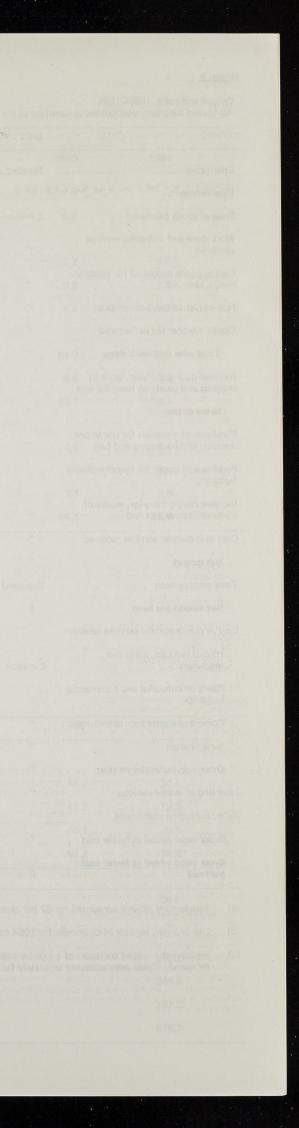
44. This represents amounts paid during the year to ADMINIS-TRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed for this purpose from government sources, are included. No deduction is 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 type-setting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries, and includes erection, installation and repair and jobbing work.

WORK IN PROGRESS 46

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



TABLE

Output and costs, 1980–1984 All United Kingdom establishments classified to the industry (a)

1981 1980 1982 1983 1984 Unit 597 614 581 Enterprises 591 696(b) Number ... 698 704 Establishments 676 693 785(b) 3,641.8 2,931.3 2,935.2 3,251.6 Sales of goods produced £ million 3,580.7 Work done and industrial services rendered 41.6 51.2 46.5 41.8 59.0 Capital goods produced for establishments' own use 3.4 3.7 4.1 4.5 6.0 Non-industrial services rendered 5.4 5.9 10.4 9.4 12.2 Goods merchanted or factored " 338.1 279.4 295.7 321.1 285.1 .. Total sales and work done 4,030.3 3,271.6 3 291.9 3,628.5 3 943 0 Increase during the year, work in .. -31.3-38.5 46.5 progress and goods on hand for sale -51.1 21.8 ,, Gross output 3,999.0 3,233.2 3,240.8 3,675.0 3,964.7 Purchases of materials for use in pro-,, duction, and packaging and fuel 2,677.2 2,169.3 2,132.3 2,375.1 2,668.5 Purchases of goods for merchanting or .. 318.8 factoring 254.1 287.4 306.0 280.4 Increase during the year, stocks of .. -7.6 -3.3 materials, stores and fuel -36.8 45.7 30.5 77.5 .. Cost of industrial services received 70.0 61.9 63.1 72.5 ,, 917.9 Net output 736.5 722.4 976.5 973.8 Total employment Thousand 75.5 65.5 58.0 50.8 48.4 Net output per head £ 12,153 11,241 12,465 19,207 20,110 Cost of non-industrial services received Hire of vehicles, plant and machinery £ million 12.0 11.5 12.9 18.1 21.7 Rents of industrial and commercial buildings .. 4.5 4.6 3.7 4.4 4.4 .. Commercial insurance premiums 13.2 12.1 10.0 9.8 10.3 .. Bank charges 0.8 0.7 0.9 1.1 1.2 Other non-industrial services 89.4 84.0 92.6 97.5 110.4(c) Licensing of motor vehicles ii 0.6 0.5 0.6 0.6 0.6 Rates, excluding water rates .. 19.8 22.4 23.0 23.7 235 ,, Gross value added at factor cost 777.7 600.5 578.7 821.6 801.5 Gross value added at factor cost per head £ 10,297 9,166 9,985 16,159 16,553

(a) Satisfactory returns accounted for 87 per cent of employment within the industry in 1984.

(b) Use of a new register of businesses for 1984 has affected the number of enterprises and establishments.

(c) Includes the cost of transport of goods by road (within the UK) of £24,933 thousand and postal and telecommunication costs of £7,054 thousand. These were collected separately for 1984 but not for the other years shown in the table.

8

TABLE 2

PA224

Capital expenditure, 1980–1984 All United Kingdom establishments classified to the industry

					£ million
1980	1981	1982	1983	1984	
and the second sec					
12.8	17.1	7.9	6.9	3.7	
3.4	6.6	2.5	2.2	3.5	
3.3	1.6	2.7	0.8	2.2	
12.9	22.1	7.7	8.3	5.0	
93.4	76.7	68.8	51.9	60.8	
6.6	4.8	5.5	6.9	5.5	
86.8	71.9	63.3	45.1	55.3	
6.3	5.5	4.4	4.4	5.4	
1.9	2.0	1.8	1.7	1.8	
4.4	3.5	2.6	2.7	3.6	
104.1	97.4	73.6	56.1	63.8	
	12.8 3.4 3.3 12.9 93.4 6.6 86.8 6.3 1.9 4.4	12.8 17.1 3.4 6.6 3.3 1.6 12.9 22.1 93.4 76.7 6.6 4.8 86.8 71.9 6.3 5.5 1.9 2.0 4.4 3.5	12.8 17.1 7.9 3.4 6.6 2.5 3.3 1.6 2.7 12.9 22.1 7.7 93.4 76.7 68.8 6.6 4.8 5.5 86.8 71.9 63.3 6.3 5.5 4.4 1.9 2.0 1.8 4.4 3.5 2.6	12.8 17.1 7.9 6.9 3.4 6.6 2.5 2.2 3.3 1.6 2.7 0.8 12.9 22.1 7.7 8.3 93.4 76.7 68.8 51.9 6.6 4.8 5.5 6.9 86.8 71.9 63.3 45.1 6.3 5.5 4.4 4.4 1.9 2.0 1.8 1.7 4.4 3.5 2.6 2.7	12.8 17.1 7.9 6.9 3.7 3.4 6.6 2.5 2.2 3.5 3.3 1.6 2.7 0.8 2.2 12.9 22.1 7.7 8.3 5.0 93.4 76.7 68.8 51.9 60.8 6.6 4.8 5.5 6.9 5.5 86.8 71.9 63.3 45.1 55.3 6.3 5.5 4.4 4.4 5.4 1.9 2.0 1.8 1.7 1.8 4.4 3.5 2.6 2.7 3.6

TABLE 3

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

£ million 1980 1981 1982 1983 1984 3a. Increase during year Materials, stores and fuel -7.6 45.7 30.5 -3.3 -36.8 Work in progress 47.2 -133-28.4 -31.7 -26.9 Goods on hand for sale -3.0 -6.8 -24.2 -0.7 35.1 Total -38.9 -41.8 -87.9 92.2 52.2 1984 3b. Value at end of year Materials, stores and fuel 248.2 Work in progress 246.6 Goods on hand for sale 181.0 Total 675.7

9

PA224

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1984 All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish- ments	Enter- prises (b)	Employmen	t		Wages and s	alaries (c)		
			Total, including working proprietors	Opera- tives	Admin- istrative, technical and clerical	Operatives		Administra technical ar	
						Total	per head	Total	per head
in the second	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
1—9	423	414	1.4)						
10–19	125	123	1.8)			10.5	7 007		0.001
20-49	91	84	2.9)	6.8	2.7	49.5	7,287	24.8	9,301
50-99	47	45	3.4)						
100–199	31	26	4.5	3.1	1.4	25.3	8,108	13.0	9,612
200–299	22	17	5.2	3.7	1.5	29.6	8,063	14.0	9,091
300399	18	15	6.5	4.7	1.8	36.7	7,759	18.9	10,425
400-499	7	7	3.2	2.2	1.0	17.8	8,185	10.0	9,709
500749	6	6	3.9	2.8	1.1	24.5	8,651	10.7	10,108
750-999	8	7	7.0	5.2	1.8	46.1	8,888	19.1	10,467
1,000 plus	7	6	8.6	5.8	2.8	48.4	8,365	27.7	9,830

Total sales and work done	Gross output	Net output		Gross value added at factor cost		Net capital expenditure	Total stocks and work in progress at
							end of year
		Total	per head	Total	per head		
£ million	£ million	£ million	£	£ million	£	£ million	£ million
668.0	676.2	183.5	19,335	(d)	(d)	16.7	90.5
529.8	539.0	93.5	20,867	212.6(d)	15,186(d)	8.3	61.1
336.5	338.0	96.4	18,500	74.0	14,201	4.9	40.4
499.9	507.7	136.8	20,927	114.6	17,530	6.1	71.5
246.9	248.3	71.1	22,210	60.9	19,014	3.7	34.4
503.5	524.2	97.1	24,991	86.2	22,178	8.9	110.8
601.3	607.2	127.6	18,207	109.3	15,603	8.3	156.7
557.1	524.1	167.7	19,488	144.0	16,732	6.9	110.4

Iotal	785	696	48.4	34.3	14.1	2/7.9	8,103	138.2	9,799
Contraction of the second second		MANER COLOR			No. Support March	State State State		HUL ANT STAND	

(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 £67.5 million. The remuneration of outworkers on returns received – also excluded from the table – was £56 thousand.

10

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

3,943.0 3,964.7 973.8 20,110 801.5 16,553 63.8 675.7

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PA224

PA224

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

Accounting year ended		Percent	age of total retu	Irns received	Percentage of t	otal employment	and the second
1984 6–30	April	2.9	michel at batter com		0.9		A Merer I.
	May	1.2		Actorio Con	0.1		
	June	2.9			1.8		
	July	2.3			2.0		
	August	1.7			0.8		
	September	6.9			4.0		
	October	0.6			0.2		
	November	2.3			1.2		
	December	67.8			81.6		
1985	January	0.6		÷	0.1		
	February	0.6			0.1		
ACA STA-SSO	I March–5 April	10.3			7.2		
(10)		3 2 2 A	22.00	10 arese 17	a Again	19.8hs	and a state

TABLE 6

Operating ratios, 1980–1984

All United Kingdom establishments classified to the industry

	Unit	1980	1981	1982	1983	1984
Crean autout and head	£	52,947	49,350	55,915	72,282	81,879
Gross output per head	L	52,947	49,350	55,915	12,202	01,078
Net output per head	£	12,153	11,241	12,465	19,207	20,110
Gross value added per head	£	10,297	9,166	9,985	16,159	16,553
Gross value added as a percentage of		10	10	10	22	
pross output	. %	19	19	18	22	20
Ratio of gross output to stocks		4.7	4.2	4.8	5.1	5.9
Vages and salaries as a percentage of						
ross value added	%	59	73	72	48	52
Ratio of operatives to administrative,						
echnical and clerical employees		2.5	2.4	2.4	2.5	2.4
Vages and salaries per operative	£	.5,815	6,337	6,831	7,437	8,103
Vages and salaries per administrative,						
echnical and clerical employee	£	6,840	7,735	8,252	8,775	9,799
let capital expenditure per head	£	1,378	1,487	1,270	1,103	1,318
Net capital expenditure as a percentage	Summer to the	arminia - Alles				
of gross value added	%	13	16	13	7	8

12

TABLE 7

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

Area	Total employme	nt (a)	Net capita expenditu		Net output (c)	2248 mult	Gross value added at factor cost	
						3	Name:	En Linix andb Ank
14 15 To 10 March 10	Thousands	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom
Standard regions of England								
North	3.1	6.5	4.8	7.5	85.6	8.8	76.2	9.5
Yorkshire and Humberside	3.7	7.6	7.3	11.4	73.4	7.5	61.4	7.7
East Midlands	1.5	3.1	3.3	5.2	30.4	3.1	21.4	2.7
East Anglia	0.3	0.6	0.2	0.2	4.6	0.5	3.7	0.5
South East	7.6	15.8	7.7	12.0	162.4	16.7	119.6	14.9
South West	2.1	4.4	4.2	6.6	63.2	6.5	55.4	6.9
West Midlands	16.0	33.0	16.4	25.7	263.1	27.0	218.3	27.2
North West	5.5	11.3	8.0	12.5	101.3	10.4	82.5	10.3
England	39.8	82.2	51.9	81.4	784.0	80.5	638.4	79.6
Wales	6.5	13.5	10.0	15.6	139.1	14.3	119.4	14.9
Scotland	2.0	4.1	1.8	2.9	49.3	5.1	42.7	5.3
Great Britain	48.3	99.8	63.7	99.8	972.4	99.8	800.5	99.9
Northern Ireland	0.1	0.2	0.1	0.2	1.4	0.2	1.1	0.1
United Kingdom	48.4	100.0	63.8	100.0	973.8	100.0	801.5	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 of each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

Output and costs, 1984 All United Kingdom establishments classified to each activity heading within the industry

	Unit	2245		2246	Constanting	2247
Enterprises (a)	Number	285	THE SQUE	222	volame	205
Establishments	"	313		242		230
Sales of goods produced	£ million	1,320.0		966.9		1,293.8
Work done and industrial services rendered		12.2		4.6		42.2
Capital goods produced for establish- ments' own use		0.6		4.5		0.8
Non-industrial services rendered	"	4.0		5.9		2.3
Goods merchanted or factored	"	76.4		67.9		140.7
Total sales and work done	"	1,413.3		1,049.8		1,479.9
ncrease during the year, work in rogress and goods on hand for sale		16.6		16.4		-11.2
Gross output	"	1,429.9		1,066.2		1,468.7
Purchases of materials for use in pro- luction, and packaging and fuel		972.8		717.9		977.8
urchases of goods for merchanting or actoring	.a.a	74.8		67.4		138.3
ncrease during the year, stocks of						
naterials, stores and fuel	a.o. "	5.4		2.0		23.0
ost of industrial services received		36.5		14.4		21.6
Net output	E.M. "	351.3		268.5		354.0
otal employment	Thousand	17.6		16.0		14.8
Net output per head	£	19,976		16,731		23,936
ost of non-industrial services aceived						
Hire of vehicles, plant and						
machinery	£ million	4.9		2.8		14.0
Rents of industrial and commercial buildings	ulo te" establer a	1.2		1.3		1.9
Commercial insurance premiums		3.6		2.8		3.9
Bank charges	"	0.4		0.4		0.4
Other non-industrial services	"	41.0		25.6		43.8
censing of motor vehicles	"	0.3		0.2		0.1
ates, excluding water rates	"	10.0		6.3		7.5
Gross value added at factor cost	"	290.0		229.0		282.5
Gross value added at factor cost						

(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.

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TABLE 9

PA224

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

CALLS.	2249
	2245
	68,912
Land and buildings	
New building work	1.7
Land and existing buildings	
Acquisitions	0.8
Disposals	0.5
Net	2.0
Plant and machinery	
Acquisitions	20.8
Disposals	2.5
Net	18.3
Vehicles	
Acquisitions	2.3
Disposals	0.9
Net	1.4
Total net capital expenditure	21.7

TABLE 10

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

	2245
10a. Increase during year	in the second second
Materials, stores and fuel	5.4
Work in progress	8.3
Goods on hand for sale	. 8.2
Total	22.0

Total	233.7
Goods on hand for sale	51.2
Work in progress	74.9
Materials, stores and fuel	107.6
10b. Value at end of year	

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PA224
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		£ million
2246	2247	
	baert veg ruc	THE PERIO
1.0	0.9	
0.6	2.1	
0.3	1.4	
1.3	1.6	
17.4	22.7	
0.8	2.2	
16.6	20.5	
1.5	1.6	
0.3	0.6	
1.2	1.0	
19.1	23.0	

£ million

2246	2247
2.0	23.0
7.7	-29.4
8.7	18.2
18.4	11.9
	a sea a s
43.2	97.4
63.9	107.8
51.7	78.0
158.8	283.2

PA224

Operating ratios, 1984

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

	Unit	2245	2246	2247
Gross output per head	£	81,312	66,441	99,302
Net output per head	£	19,976	16,731	23,936
Gross value added per head	£	16,490	14,273	19,102
Gross value added as a percentage of ross output	%	20	21	19
Ratio of gross output to stocks		6.1	6.7	5.2
Vages and salaries as a percentage of ross value added	%	55	56	46
atio of operatives to administrative, chnical and clerical employees		2.8	2.8	1.8
ages and salaries per operative	£	8,641	7,462	8,164
ages and salaries per administrative, chnical and clerical employee	£	10,157 -	9,454	9,766
et capital expenditure per head	£	1,236	1,190	1,556
et capital expenditure as a percentage gross value added	%	7	8	8

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