

BUSINESS MONITORS

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PA221

A publication of the Government Statistical Service

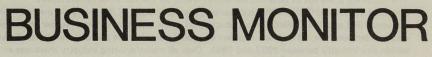
Report on the **Census of Production** 1986

Iron and steel 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

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.

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 38 Extraction and preparation of metalliferous ores PA210 -1 PA221 Iron and steel industry PA222 Steel tubes Drawing, cold rolling and cold forming of steel -2 PA223 0 PA224 Non-ferrous metals industry -18 PA231 Extraction of stone, clay, sand and gravel Extraction of miscellaneous minerals (including salt) -6 PA239 -1 PA241 Structural clay products PA242 Cement, lime and plaster 0 -9 Building products of concrete, cement or plaster PA243 0 PA244 Asbestos goods -2 Working of stone and other non-metallic minerals PA245 -6 PA246 Abrasive products 2 PA247 Glass and glassware PA248 Refractory and ceramic goods PA251 Basic industrial chemicals Paints, varnishes and printing ink PA255 Specialised chemical products mainly for industrial and agricultural purposes PA256 PA257 Pharmaceutical products PA258 Soap and toilet preparations 0 Specialised chemical products mainly for household and office use 0 PA259 0 PA260 Production of man made fibres -4 PA311 Foundries 0 PA312 Forging, pressing and stamping 0 PA313 Bolts, nuts, etc; springs; non-precision chains; metals treatment 2 PA314 Metal doors, windows etc -1 PA316 Hand tools and finished metal goods 4 PA320 Industrial plant and steelwork -1 PA321 Agricultural machinery and tractors PA322 Metal-working machine tools and engineers' tools -1 0 PA323 Textile machinery Machinery for the food, chemical and related industries; process engineering contractors 2 PA324 PA325 Mining machinery, construction and mechanical handling equipment 3 14 Mechanical power transmission equipment PA326 PA327 Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and -4 dry cleaning machinery Miscellaneous machinery and mechanical equipment 0 PA328 0 PA329 Ordnance small arms and ammunition PA330 Manufacture of office machinery and data processing equipment 2 PA341 Insulated wires and cables PA342 Basic electrical equipment Electrical equipment for industrial use, and batteries and accumulators 3 PA343 Telecommunication equipment, electrical measuring equipment, electronic capital goods and PA344 2 passive electronic components 3 PA345 Miscellaneous electronic equipment PA346 Domestic-type electric appliances 1 13 PA347 Electric lamps and other electric lighting equipment 0 PA351 Motor vehicles and their engines

PA352 Motor vehicle bodies, trailers and caravans

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BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

P

Employment

percentage

-3

A353	Motor vehicle parts
A361	Shipbuilding and repairing
A362	Railway and tramway vehicles
A363	Cycles and motor cycles
A364	Aerospace equipment manufacturing and repairing
A365	Miscellaneous vehicles
A371	Measuring, checking and precision instruments and apparatus
A372	Medical and surgical equipment and orthopaedic appliances
A373	Optical precision instruments and photographic equipment
A374	Clocks, watches and other timing devices
A411	Organic oils and fats
A412	Slaughtering of animals and production of meat and by-products
A413	Preparation of milk and milk products
A414	Processing of fruit and vegetables
A415	Fish processing
A416	Grain milling
A419	Bread, biscuits and flour confectionery
A420	Sugar and sugar by-products
A421	Ice-cream, cocoa, chocolate and sugar confectionery Animal feeding stuffs
A422	Starch and miscellaneous foods
A423	Spirit distilling and compounding
A424	Wines, cider and perry
A427	Brewing and malting
A428	Soft drinks
A429	Tobacco industry
A431	Woollen and worsted industry
A432	Cotton and silk industries
A433	Throwing, texturing, etc. of continuous filament yarn
A434	Spinning and weaving of flax, hemp and ramie
A435	Jute and polypropylene yarns and fabrics
PA436	Hosiery and other knitted goods
PA437	Textile finishing
A438	Carpets and other textile floorcoverings
A439	Miscellaneous textiles
PA441	Leather (tanning and dressing) and fellmongery
PA442 PA451	Leather goods Footwear
A451	Clothing, hats and gloves
A455	Household textiles and other made-up textiles
A456	Fur goods
A461	Sawmilling, planing, etc. of wood
A462	Manufacture of semi-finished wood products and further processing
A463	Builders carpentry and joinery
A464	Wooden containers
A465	Miscellaneous wooden articles
A466	Articles of cork and plaiting materials, brushes and brooms
A467	Wooden and upholstered furniture and shop and office fittings
PA471	Pulp, paper and board
A472	Conversion of paper and board
A475	Printing and publishing
A481	Rubber products
A483	Processing of plastics
A491	Jewellery and coins
A492 A493	Musical instruments
A493 A494	Photographic and cinematographic processing laboratories Toys and sports goods
A494	Miscellaneous manufacturing industries
A500	Construction
A1002	Summary tables
	Summary Lables

3

Employment percentage variation

-2 0 0 0 0 1 -8 0 -5 0 --4 -7 14 0 -2 -5 2 0 2 0 -1 0 -2 3 -3 -3 0 3 3 1 3 -5 8 2 -2 -27 -17-4 -5 -6 7 3 -1 2 -5 -1 67

and treatment of wood

PA221 IRON AND STEEL INDUSTRY

PA221

The information in this report relates to establishments classified to the Iron and steel industry, Group 221 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Heading:-

2210 Iron and steel industry

(Note: Iron and steel industry as defined by the European Coal and Steel Community in the Treaty of Paris, 1951.) Units producing iron and steel moustly as defined by the colopean coan and steer community in the freaty of rais, 1951.7 onits producing iron and steel products described in Annex 1 to the Treaty. This includes the manufacture of pig iron, spiegeleisen, high-carbon ferromanganese, primary liquid steel for casting, steel ingots for remelting and forging, semi-finished products such as blooms, billets, slabs and bars, hot rolled wide coils other than finished products, hot finished products such as rails, sleepers, sole-plates, joists, heavy sections 80 mm and over, sheet piling, bars and sections of less than 80 mm and flats of less than 150 mm, wire rod, tube rounds and squares, hot-rolled hoop and strip, hot-rolled sheets under 3 mm, plates and sheets of 3 mm thickness and over, and universal plates of 150 mm and over. The manufacture of coated products e.g. tinplate, terneplate, blackplate and galvanised sheets is also included as well a colled child a bart under 3 mm. as well as cold rolled sheet under 3 mm, electrical sheet and strip for tinplate. Subsequent work on the same site such as tube making, other cold forming, casting and forging should be separately identified and classified to Groups 222, 223, 311 or 312 as appropriate.

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

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

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

REPORTING UNIT

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

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

THE REGISTER

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 inform-ation 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

Page

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

ESTIMATION

11 returned employment.

12.

clearly marked.

14 that:

16. Additional equipment.

SYMBOLS USED **Business Monitors**

5

Establishments were asked to make returns for the calendar 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.

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.

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

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

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states

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

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

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

CHANGES MADE FOR 1986

The 1986 Census, like that for 1985, was a slimline one. 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

The following symbols are used throughout the PA series of

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

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

on LAND AND EXISTING BUILDINGS

This represents the value of freeholds and the value or 21. 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 payable.

on NEW BUILDING WORK h

This represents the value of new building and other construc-22. tional work such as the extension and reconstruction of old buildings, and the value of any newly constructed buildings The figures include architects' and surveyors' fees, legal acquired. 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

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

COST OF NON-INDUSTRIAL SERVICES RECEIVED

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

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

EMPLOYMENT

28. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES 28 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 EMPLOYEES

This includes directors who received a definite wage, salary or 29 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 30. 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.

These are people who are regarded as self-employed for 31 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

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

GROSS VALUE ADDED AT FACTOR COST

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

GROSS VALUE ADDED AT FACTOR COST PER HEAD 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

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

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 39 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, semi-40. manufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to establishments' own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks. rebates etc. Imported goods are included at their full delivered cost. If the transport from docks or airport of imported goods is not included in the cost of goods purchased, the cost is entered at cif plus duty, if applicable. Transfers of goods to an establishment from other departments of the organisation not covered by the return are included at the estimated selling value recorded by the other departments

REMUNERATION PAID TO OUTWORKERS

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

SALES OF GOODS PRODUCED

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

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.

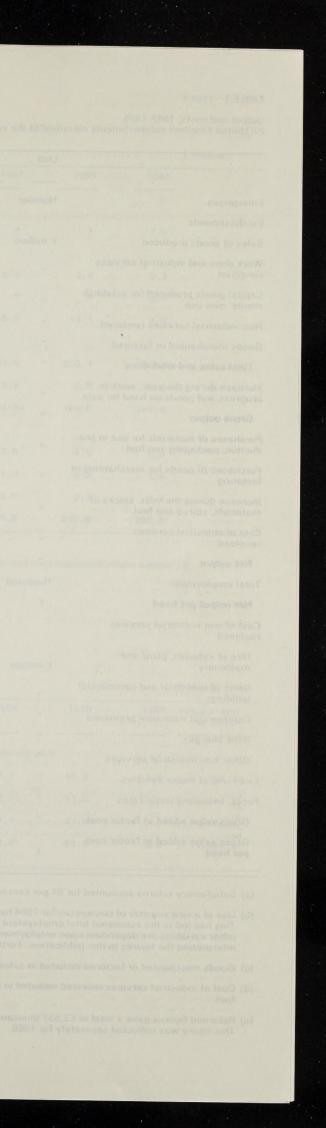
WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

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

6



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

	Unit	1982	1983	1984	1985	1986
nterprises	Number	251	269	 148(b)	135	137
stablishments		335	343	186(b)	175	171
ales of goods produced	£ million	4,255.0	4,553.2	4,969.7(c)	5,457.1	5,243.7
Vork done and industrial services endered		56.0	57.5	64.2	47.0	46.7
apital goods produced for establish- nents' own use		5.1	5.5	3.5	4.1	3.5
on-industrial services rendered		5.7	4.6	4.3	5.3	10.7
oods merchanted or factored	"	17.9	16.1	(c)	24.4	27.4
Total sales and work done		4,339.7	4,637.0	5,041.7	5,537.9	5,332.0
ncrease during the year, work in rogress and goods on hand for sale	suitones 	-57.9	49.0	50.2	74.8	-57.8
Gross output		4,281.8	4,686.0	5,092.0	5,612.8	5,274.2
urchases of materials for use in pro- uction, packaging and fuel		2,916.8	3,095.6	3,395.3	3,875.7(d)	3,217.1
urchases of goods for merchanting or actoring	•	16.3	14.2	23.7	22.1	24.1
crease during the year, stocks of laterials, stores and fuel		-97.5	30.0	51.7	16.2	51.6
ost of industrial services sceived		157.2	167.5	172.2	(b)	230.5
Net output		1,094.1	1,438.7	1,552.5	1,731.2	1,854.1
otal employment	Thousand	92.9	78.6	69.7(b)	67.3	64.0
Net output per head	£	11,772	18,292	22,258	25,718	28,989
ost of non-industrial services ceived						
Hire of vehicles, plant and machinery	£ million	41.7	47.6	55.2	28.8	31.9(e)
Rents of industrial and commercial buildings		3.1	3.3	3.5	3.0	2.6
Commercial insurance premiums		6.8	6.9	7.2	9.5	11.5
Bank charges	"	0.9	1.0	1.0	1.2	1.2
Other non-industrial services		179.5	186.4	234.1	255.7	234.9
censing of motor vehicles		0.6	0.8	0.6	0.6	0.5
ites, excluding water rates		70.1	68.3	68.9	67.6	75.9
Gross value added at factor cost		791.5	1,124.4	1,181.9	1,364.8	1,495.5
Gross value added at factor cost per head	£	8,517	14,296	16,945	20,275	23,383

(a) Satisfactory returns accounted for 94 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 decreased 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) Goods merchanted or factored included in sales of goods produced.

(d) Cost of industrial services received included in purchases of materials for use in production, packaging and fuel.

(e) Returned figures gave a total of £3,537 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

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TABLE 2

PA221

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

					and all the test of the	million
This called - Groce (a) solvate	1982	1983	1984	1985	1986	Toyal tocologic
Land and buildings	or (Jac)		autor cost		(6) 618509	
New building work	3.6				7.9	
Land and existing buildings						
Acquisitions	1.8	 denoal 	5.2	2.4	3.2	
Disposals	6.5	5.4	•	*	2.1	
Net	-1.1	4.4	9.6	13.1	9.0	
Plant and machinery						
Acquisitions	132.0	169.0	163.0	200.1	288.4(a)	
Disposals	8.1	5.7	3.7	3.9	5.6	
Net	123.9	163.2	159.3	196.3	282.8	
Vehicles						
Acquisitions	4.1	4.0	3.8	4.5	5.9	
Disposals	1.4	1.4	1.3	1.3	1.6	
Net	2.7	2.7	2.5	3.2	4.2	
Total net capital expenditure	125.5	170.3	171.2	212.6	296.0	

(a) Returned figures gave a total of £5,965 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

1982				and the second	
	1983	1984	1985	1986	Value at end of 1986
	In	crease during y	ear		
-97.5	30.0	51.7	16.2	51.6	499.3
-46.1	31.0	32.9	51.0	-66.6	314.1
-11.8	18.0	17.4	23.8	8.7	220.8
-155.4	79.0	102.0	91.1	-6.3	1,034.2
	-46.1 -11.8	-97.5 30.0 -46.1 31.0 -11.8 18.0	-97.5 30.0 51.7 -46.1 31.0 32.9 -11.8 18.0 17.4	-46.1 31.0 32.9 51.0 -11.8 18.0 17.4 23.8	-97.5 30.0 51.7 16.2 51.6 -46.1 31.0 32.9 51.0 -66.6 -11.8 18.0 17.4 23.8 8.7

PA221

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- lish-	Enter- prises	Employmen	Employment			alaries (c)		
9.00	ments	(b)							
									111
			Total including	Opera- tives	Administr- ative,tech	Operatives	ti (1967-1 egeski	Administra technical a	
			working proprietors		nical and clerical			clerical	
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	f
1-19	14	14	0.2)						
20-49	60	60) 2.1)	3.3	1.4	27.6	8,275	13.9	10,010
50-99	36	35	2.4)						
100-199	26	21	3.7	2.7	1.0	25.8	9,684	11.4	11,034
200-299	6	6	1.4	1.0	0.4	9.0	9,031	4.0	10,656
300-Plus	29	15	54.2	38.2	16.0	439.8	11,515	201.5	12,618

	hered to experimental			
Total sales and work done	Gross output	Net output	18(5)1	Gross value added at factor cost
		Total	per head	Total
£ million	£ million	£ million	£	£ million
249.2	249.8	96.7	20,443	(d)
297.3	310.8	86.1	23,278	147.7(d)
63.1	62.5	28.0	20,423	22.8
4,722.4	4,651.0	1,643.4	30,342	1,325.0

5,332.0

5.274.2

1,854.1

28,989

1,495.5

(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 £135.2 million.

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

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Net capital expenditure

Total stocks and work in progress at end of year

per head

f	£ million	£ million
(d)	9.1	40.4
17,583(d)	34.5	58.8
16,676	2.0	12.1
24,463	250.5	922.9

23,383

296.0

1,034.2

TABLE 5

by number of returns and total employment

PA221

TABLE 7

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

Accounti	ng year ended	Percentage of total r	eturns		entage of tot	al
	a terot internegenistin	received		emt	oloyment	
1986	April 6-30	2.2		Pageas	0.3	tine
	Мау	1.1			-	
	June	2.2			0.6	
	July	2.2			0.4	
	August	1.1 16107			0.3	
	September	8.9			1.2	
	October	2.2			0.2	
	November	1.1			0.1	
	December	46.7			28.4	
1987	January	(b) 1.1			0.3	
	February	(b)(80,767 (b)X 767			97 H.DYG 23	
	1 March - 5 April	31.1			68.2	

Percentage analysis of twelve month periods covered by returns received for the 1986 Census

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
Gross output per head	£	46,073	59,581	73,004	83,378	82,462
Net output per head	£	11,772	18,292	22,258	25,718	28,989
Gross value added per head	£	8,517	14,296	16,945	20,275	23,383
Gross value added as a percentage of gross output	x	18	24	23	24	28
Ratio of gross output to stocks		4.8	5.0	5.2	5.2	5.1
Nages and salaries as a percentage of gross value added	x	96	64	57	53	49
latio of operatives to administrative, echnical and clerical employees		2.5	2.4	2.4	2.5	2.4
Nages and salaries per operative	£	7,861	8,811	9,428	10,318	11,114
Nages and salaries per administrative, echnical and clerical employee	£	8,875	9,807	10,389	11,573	12,300
Net capital expenditure per head	£	1,350	2,165	2,455	3,158	4,628
Net capital expenditure as a percentage of gross value added	x	16	15	14	16	20

Area	Total employment (a)		Net capital expenditure (b)		Net output (c)		Gross value added at factor cost (c)	
	Thousan	d per cent of United Kingdom	f million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdon
Standard regions of England								
North	10.1	15.7	•		225.3	12.2	166.8	11.2
Yorkshire and								
Humberside	22.9	35.8	69.1	23.3	599.4	32.3	492.5	32.9
East Midlands	0.6	0.9	0.8	0.3	9.7	0.5	7.4	0.5
East Anglia	0.1	0.2			2.3	0.1	1.8	0.1
South East	1.7	2.7	4.0	1.3	49.8	2.7	39.7	2.1
South West	0.4	0.6	0.7	0.2	8.8	0.5	7.5	0.5
West Midlands	3.2	5.1	7.6	2.6	70.3	3.8	56.5	3.8
North West	0.5	0.7	0.9	0.3	9.5	0.5	7.7	0.5
ingland	39.5	61.7	135.8	45.9	975.0	52.6	779.8	52.1
Vales	neral oli to	·		•		- 5. (
cotland	5.1	7.9	23.8	8.0	130.6	1.0	90.1	6.0
ireat Britain	peturale.g	y protocia				*		
lorthern Ireland		-2.2.9	ular	18.Y) en	t sir	
nited Kingdom	the second of	5	2.2.2.2.20		and the second second	1 Carlos		

(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.

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