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Business Monitor

Report on the Census of Production

Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and dry cleaning machinery

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BUSINESS MONITORS

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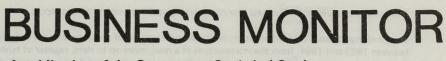
Report on the **Census of Production** 1987

Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and dry cleaning machinery

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



PA346 PA347



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, businesses but also from the reclassification of some small businesses from one industry to another.

Since estimates of census variables, based on register employment, are made for small businesses 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 ation

	Renard on the second	
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	1
PA223	Drawing, cold rolling and cold forming of steel	-2
PA224	Non-ferrous metals industry	
PA231	Extraction of stone, clay, sand and gravel	-18
PA239	Extraction of miscellaneous minerals (including salt)	-6
PA241	Structural clay products	-
PA242	Cement, lime and plaster	(
PA243	Building products of concrete, cement or plaster	-9
PA244	Asbestos goods	
PA245	Working of stone and other non-metallic minerals	
PA246	Abrasive products	-1
PA247	Glass and glassware	
PA248	Refractory and ceramic goods	
PA251	Basic industrial chemicals	
PA255	Paints, varnishes and printing ink	
PA256	Specialised chemical products mainly for industrial and agricultural purposes	
PA257	Pharmaceutical products	
PA258	Soap and toilet preparations	
PA259	Specialised chemical products mainly for household and office use	
PA260	Production of man made fibres	
PA311	Foundries	-
PA312	Forging, pressing and stamping	
PA313	Bolts, nuts, etc; springs; non-precision chains; metals treatment	
PA314	Metal doors, windows etc	:
PA316	Hand tools and finished metal goods	-
PA320	Industrial plant and steelwork	
PA321	Agricultural machinery and tractors	-
PA322	Metal-working machine tools and engineers' tools	-
PA323	Textile machinery	
PA324	Machinery for the food, chemical and related industries; process engineering contractors	
PA325	Mining machinery, construction and mechanical handling equipment	
PA326	Mechanical power transmission equipment	1.
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	;
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	
	passive electronic components	
PA345	Miscellaneous electronic equipment	
PA346	Domestic-type electric appliances	
PA347	Electric lamps and other electric lighting equipment	1:
PA351	Motor vehicles and their engines	(
PA352	Motor vehicle bodies, trailers and caravans	-:

2

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

-	Motor vehicle parts	
PA353	Motor vehicle parts Shiphuilding and repairing	
PA361	Shipbuilding and repairing Railway and tramway vehicles	
PA362 PA363	Cycles and motor cycles	
PA363	Aerospace equipment manufacturing and repairing	
PA304	Miscellaneous vehicles	
PA305	Measuring, checking and precision instruments and apparatus	
PA372	Medical and surgical equipment and orthopaedic appliances	
PA372 PA373	Optical precision instruments and photographic equipment	
PA373	Clocks, watches and other timing devices	
PA374 PA411	Organic oils and fats	
PA411 PA412	Slaughtering of animals and production of meat and by-products	
PA412 PA413	Preparation of milk and milk products	
PA413 PA414	Processing of fruit and vegetables	
PA414 PA415	Fish processing	
PA415 PA416	Grain milling	
PA410 PA419	Bread, biscuits and flour confectionery	
PA420 PA421	Sugar and sugar by-products Ice-cream, cocoa, chocolate and sugar confectionery	
PA421 PA422	Animal feeding stuffs	
PA422 PA423	Starch and miscellaneous foods	
PA423	Spirit distilling and compounding	
PA424	Wines, cider and perry	
PA420	Brewing and malting	
PA427	Soft drinks	
PA420	Tobacco industry	
PA431	Woollen and worsted industry	
PA432	Cotton and silk industries	
PA433	Throwing, texturing, etc. of continuous filament yarn	
PA434	Spinning and weaving of flax, hemp and ramie	
PA435	Jute and polypropylene yarns and fabrics	
PA436	Hosiery and other knitted goods	
PA437	Textile finishing	
PA438	Carpets and other textile floorcoverings	
PA439	Miscellaneous textiles	
PA441	Leather (tanning and dressing) and fellmongery	
PA442	Leather goods	
PA451	Footwear	
PA453	Clothing, hats and gloves	
PA455	Household textiles and other made-up textiles	
PA456	Fur goods	
PA461	Sawmilling, planing, etc. of wood	
PA462	Manufacture of semi-finished wood products and further processin	a and traction of
PA463	Builders carpentry and joinery	y and treatment of w
PA464	Wooden containers	
PA465	Miscellaneous wooden articles	
PA466	Articles of cork and plaiting materials, brushes and brooms	
PA467	Wooden and upholstered furniture and shop and office fittings	
PA471	Pulp, paper and board	
PA472	Conversion of paper and board	
PA475	Printing and publishing	
PA481	Rubber products	
PA483	Processing of plastics	
PA491	Jewellery and coins	
PA492	Musical instruments	
PA493	Photographic and cinematographic processing laboratories	
PA494	Toys and sports goods	
PA495	Miscellaneous manufacturing industries	
PA500	Construction	
PA1002	Summary tables	
11002		

Employment percentage variation

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

PA327 MACHINERY FOR THE PRINTING, PAPER, WOOD, LEATHER, RUBBER, GLASS AND RELATED INDUSTRIES; LAUNDRY AND DRY CLEANING MACHINERY

The information in this report relates to businesses classified to the Machinery for the printing, paper, wood, leather, rubber, glass and related industries; laundry and dry cleaning machinery industry, Group 327 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

3275 Machinery for working wood, rubber, plastics, leather and making paper, glass, bricks and similar materials; laundry and dry cleaning machinery

Woodworking machinery 1.

Manufacture of machines for pressing, shaping and sawing wood. Machines for working plywood, chipboard and veneer are included, Portable power tools are classified to Group 328.

Rubber and plastics working machinery 2

Manufacture of machines for mixing, rolling, extruding, pressing and moulding of rubber and plastics. Calenders are included.

Leatherworking and footwear making and repairing machinery 3

Manufacture of machines for tanning and working leather and for boot and shoe making and repairing. Sewing machines are classified to Group 328.

Paper making machinery 4.

Manufacture of machines for preparing paper and board stock and for making paper and board.

Glass and brick making and similar machinery 5.

Manufacture of machines for making and working glass, bricks, tiles, concrete blocks, pottery and other ceramics. Electric lamp making machines are included. Manufacture of moulds and of furnaces and kilns is excluded and classified to Groups 322 and 324 respectively. I aundry and dry cleaning machinery

Manufacture of washing, drying, ironing, folding and dry cleaning machines, including coin operated machines. Domestic electrical laundering machines are classified to Group 346 and machines for textile finishing to Group 323.

3276 Printing, bookbinding and paper goods machinery

Manufacture of typesetting, plate and cylinder production machinery including metal and film typesetting and composing room equipment. Manufacture of printing machinery including sheet, reel or web-fed letterpress, gravure and flexographic printing machines and offset-litho machines but excluding textile printing machines which are classified to Group 323. Manufacture of bookbinding and paper working machinery including bookbinders' sewing machines, ruling machines and machines for making and working cardboard boxes, paper bags, envelopes and other paper goods.

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 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 classific ation 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

From the earliest censuses of production until that for 1986 the reporting unit to the census was the establishment. This was defined as the smallest unit which could provide the full range of data required for an economic census. Establishments were asked, where possible, to exclude from their returns to the census any nonproduction activity.

In 1987, for a number of administrative and statistical 4 reasons, a new system of company-based reporting was introduced. Under the new system the reporting unit to the census is, generally, the company, but there are some exceptions. These arise, for example, for large mixed activity companies which are asked to make separate returns to the census for each of their production activities on an establishment basis. Throughout this monitor this mixture of reporting units are referred to as "businesses". These businesses are no longer asked to exclude non-production activities.

5. In practice, since most businesses, both before and after the change, reported for the company as a whole, little difference to the main economic series has resulted from the change

For most businesses, the returned data are appropriate to a single activity heading of SIC(80) and fall within a single geographical region. Where information covers a mixture of activities, the business is classified according to the main activity. Where the business operates at a number of different addresses then, in order to enable regional data to be compiled, separate information on employment and capital expenditure is sought for each address.

THE REGISTER

A register of businesses throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries. For each business the register contains identification particulars and information about its eligibility for inclusion in an inquiry, its relationship with other businesses 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 -Size analyses of United Kingdom businesses. 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 businesses 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 businesses 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 businesses engaged in industrial production, ie mining and quarrying, manufacturing, construction, and gas, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Businesses in the Channel Islands and the Isle of Man are excluded

10. Under the sampling arrangements agreed for the 1987 Census, forms were despatched to all businesses with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for businesses in the 20 to 49 and 50 to 99 employment size bands. It was necessary to increase the sample in those industries where there were few business in the sample size band or where response in earlier years was poor. About 16,200 forms were despatched in the United Kingdom for the 1987 Census.

PERIOD COVERED

ESTIMATION

13. 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 non-selected business to yield an estimated value for that business. Estimates for items not collected on the shorter form are made in a similar way using returned employment

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 businesses 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 businesses 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.

clearly marked.

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states 16. that:

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."

17.

CHANGES MADE FOR 1987 18.

SYMBOLS USED **Business Monitors:**

11. Businesses were asked to make returns for the calendar year 1987 but, where this was not possible, returns for business years ending between 6 April 1987 and 5 April 1988 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

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

15. 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

"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 -

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

The 1987 Census, like that for 1986, was a slimline one. The questions relating to computers, included in the 1986 Census, were discontinued.

19. The following symbols are used throughout the PA series of

not available

nil or less than half the final digit shown information suppressed to avoid disclosure revised

ROUNDING OF FIGURES

Figures in the tables have been rounded to the nearest final 20 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 21 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 22. with any other amounts which ranked as capital items for taxation purposes during the year to which each 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 USE WITHIN THE BUSINESS by its 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 а.

23. 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 fees. The figures for disposals are net of any such professional fees pavable.

on NEW BUILDING WORK b.

24. 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 25. 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 USE WITHIN THE BUSINESS

26. This represents the value of all work of a capital nature carried out during the year by the staff of, and for use in, the businesses covered by the returns.

COST OF INDUSTRIAL SERVICES RECEIVED

This includes amounts payable to other organisations for 27 work done on materials supplied by the business 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 28. 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 and on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 29. 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

30. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES on the payroll and the number of WORKING PROPRIETORS employed during the year of return. Full-time and part-time employees are included but outworkers (ie people who worked in their own homes on materials supplied by the business) and casual employees such as jobbers are excluded. The average number of employees returned by individual businesses 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

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

h OPERATIVES

32. 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 included.

WORKING PROPRIETORS C.

33. 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.

ENTERPRISE

34. This is defined as one or more businesses under common ownership or control.

GROSS OUTPUT

This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes during the year of WORK IN PROGRESS and GOODS ON HAND FOR SALE.

GROSS VALUE ADDED AT FACTOR COST

36. 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

37. 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 38 WORK acquisitions less disposals of LAND AND EXISTING BUILDINGS, VEHICLES and PLANT AND MACHINERY.

NET OUTPUT

39. This is calculated by deducting from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCT-ION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST OF INDUST RIAL 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

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

NON-INDUSTRIAL SERVICES RENDERED

 This includes amounts charged for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the right to use patents, trade marks, copyrights etc., for manufacturing and quarrying rights, for technical know-how and for the provision of transport to other organisations. It also includes revenue from staff facilities such as canteens.

OPERATING BATIOS

These ratios are calculated using industry totals, ie including the estimates for businesses 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-43 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 business or given out to others, for the production of machinery or other capital items used in the business, and materials used when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPEND-ITURE, and amounts payable to transport firms or credited to the business's 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 from other departments of the business 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, ie people who do work in their own homes generally on a piece-work basis, whose names appear on the payroll. Amounts paid to outworkers by subcontractors are included in the COST OF INDUSTRIAL SERVICES RECEIVED. Estimates are not made for remuneration of outworkers for businesses not completing Census

SALES OF GOODS PRODUCED

This represents sales of goods during the year, irrespective of whether or not they were produced in the year of the return. It also includes sales of goods made from materials given out to other firms or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', ie 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 includes duty if the goods are sold 'duty-paid', but excludes it if they 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 a business to departments not covered by the return (including other businesses in the same enterprise group) are treated as sales, valued as if sold to an independent purchaser.

STOCKS

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

WAGES AND SALARIES

47. 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

48 This includes amounts charged for work carried out including that done by sub-contractors on customers' materials and amounts charged for materials supplied in the course of such work. Industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations is also included. 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

49. 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

Output and costs, 1983-1987 All United Kingdom businesses classified to the industry (a)

in a lance and there and a set an encoded the test of the lance and there is graphic as a set of the lance is the result of the set of the set of the	Unit	1983	1984	1985	1986	1987
Enterprises	Number	959	811(b)	822	821	816
Businesses		1,098	934(b)	941	927	910
Sales of goods produced	£ million	745.2	771.0	877.4	951.5	1,073.6
Nork done and industrial services rendered	n New York States New York States	45.6	49.4	44.0	61.8	77.7
Capital goods produced for use within he business	"	1.0	0.6	0.8	0.8	0.6
Non-industrial services rendered	н	3.8	4.9	4.4	9.9	10.7
Goods merchanted or factored	н	86.8	112.1	89.5	121.8	112.9
Total sales and work done	0.000	882.5	938.1	1,016.1	1,145.9	1,275.5
ncrease during the year, work in rogress and goods on hand for sale	n	-1.2	8.9	27.7	-0.4	12.8
Gross output	н	881.2	947.0	1,043.9	1,145.5	1,288.4
urchases of materials for use in pro- uction, packaging and fuel		347.0	373.8	421.9	429.3	521.4
urchases of goods for merchanting or actoring	ding and arise reconcerned	62.9	79.2	64.3	93.2	81.7
ncrease during the year, stocks of naterials, stores and fuel		-2.7	4.7	6.8	2.2	8.8
ost of industrial services aceived	u na cales	24.7	26.2	25.8	37.6	38.6
Net output	н	443.9	472.5	538.7	587.6	655.4
otal employment	Thousand	32.4	28.9(b)	28.4	28.2	29.2
Net output per head	f	13,709	16,363	18,942	20,825	22,484
ost of non-industrial services aceived						
Hire of vehicles, plant and machinery	£ million	6.5	6.1	7.6	10.4	10.5
Rents of industrial and commercial buildings		5.7	7.6	5.3	7.5	6.9
Commercial insurance premiums		4.7	4.6	4.5	6.5	8.7
Bank charges	10 A	1.2	1.2	1.2	1.5	1.8
Other non-industrial services		63.9	68.5	71.6	74.7	94.3
censing of motor vehicles	Several House States	0.4	0.3	0.4	0.4	0.4
ates, excluding water rates	and III and the	10.2	9.3	8.9	10.6	11.2
Gross value added at factor cost		351.4	374.8	439.1	476.1	521.6
Gross value added at factor cost per head	£	10,852	12,981	15,441	16,872	17,892

(a) Satisfactory returns accounted for 60 per cent of employment within the industry in 1987.

(b) Use of a new register of businesses for 1984 has affected the number of enterprises and businesses. This has led to the estimated total employment being decreased by 4% 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.

8

TABLE 2

PA327

Capital expenditure, 1983-1987 All United Kingdom businesses classified to the industry

iges and skining (o) stantio	1983	1984	1985
Land and buildings			
New building work	1.3	4.0	3.3
Land and existing buildings			
Acquisitions	0.5	0.8	6.4
Disposals	2.3	1.5	2.2
Net	-0.5	3.3	7.6
Plant and machinery			
Acquisitions	18.1	24.1	24.9
Disposals	2.1	2.0	1.8
Net	16.0	22.1	23.1
Vehicles			
Acquisitions	4.4	6.4	6.4
Disposals	2.4	2.7	1.8
Net	2.0	3.7	4.6
Total net capital expenditure	17.5	29.2 ·	35.3
1969 1 10.232 PCI 13.9 1.92	23.p./p	8 M S	107.7

TABLE 3

Stocks and work in progress, 1983-1987 All United Kingdom businesses classified to the industry

		£ million
1986	1987	Value at end of 1987
g year		
2.2	8.8	73.9
-4.4	3.3	136.6
4.0	9.6	54.4
1.8	21.7	264.9
	1.8	1.8 21.7

counts may exceed the total for the industry

o the national insurance, pensions and wailare schemes and the running he table but were estimated for the industry at £40.1 million. The s received - also excluded from the table - was £33 thousand.

series amployed to series

1986	1987	- 101/L
and the second		
3.5	5.1	
1.4	1.5	
2.2	2.6	
2.7	3.9	
28.1	36.8	
2.0	2.3	
26.1	34.5	
	1.87	
4.7	6.6	
1.9	2.7	
2.8	3.9	
31.6	42.3	

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1987

All United Kingdom businesses classified to the industry (a)

Size group	Busin- esses	Enter- prises (b)	Employmen	t 5881		Wages and	salaries (c)		
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	- 927 zemblin 61R	Administrat technical an clerical	ive,
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	f
1-9	515	451	2.0)						
10-19	161	150	2.3)	7.4	3.9	69.7	9,418	45.8	11,687
20-49	131	130	4.1)	7.4	0.0	00.7	0,410	.0.0	11,007
50-99	45	43	3.2)						
100-199	31	30	4.3	2.6	1.7	23.8	9,136	20.0	11,781
200-299	12	12	2.8	1.7	1.1	17.9	10,260	12.0	11,356
300-399	4	4	1.4	0.7	0.7	7.3	9,894	8.3	12, 111
400-749	5	5	2.6	1.4	1.2	14.8	10,628	12.1	9,751
750-999	3	3	2.7	1.6	1.1	16.3	10,232	13.9	12,224
1, 000-Plus	3	3	3.8	1.6	2.2	20.4	12,754	32.8	15, 157
Total	910	816	29.2	17.1	11.9	170.1	9,969	145.0	12,176

(a) Businesses employing fewer than 20 persons are not required to complete census returns. Because of this, data for these businesses 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 businesses shown in each size group. Because an enterprise may own businesses 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 £40.1 million. The remuneration of outworkers on returns received - also excluded from the table - was £33 thousand.

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

					bebne teey enitalies			
Total sales and work done	Gross output	Net output	ital Italoymant	Gross value added at factor cost	8301 101	Net capital expenditure	Total stocks and work in progress at end of year	
							end of year	
			1 inited	number 30	044			
		Total	per head	Total	per head			
L. Lidbid.			neau		neau			
£ million	£ million	£ million	f	£ million	£	£ million	£ million	
1.1.1								
	400.0	007.0	10 700		(1)	10.0		
416.9	423.6	227.2	19,760	(d)	(d)	13.0	81.7	
Courtes								
178.7	179.4	91.7	21,294	257.5(d)	16, 195(d)	4.0	38.0	
128.0	127.8	63.1	22,506	51.5	18,380	3.6	26.2	
54.6	58.3	25.9	18,195	20.1	14,094	0.8	20.6	
118.3	121.5	54.8	20,814	40.3	15,324	3.2	25.6	
136.1	134.1	73.9	27,073	61.5	22,533	7.2	29.8	
242.9	243.6	118.9	31,620	90.7	24, 112	10.5	43.1	
	10.0		0.5	50.7	24,112	10.5	43.1	

1,275.5	1,288.4	655.4	22,484	521	.6	17,892	
						rases logato	

PA327

42.3

264.9

Percentage analysis of twelve-month periods covered by returns received for the 1987 Census by number of returns and total employment

Accounting year ended				Percentage of total returns received			Percentage of total employment			
1987	April 6-30	(b)	CONCER-		2.8			0.8	later	
	May				3.8			1.2		
	June				3.8			3.0		
	July				5.7			5.6		
	August				2.8			1.2		
	September				9.4			9.4		
	October				8.5			10.7		
	November				4.7			1.9		
	December				34.0			35.7		
1988	January				6.6			11.4		
	February				0.9			0.1		
	1 March - 5	April			17.0			19.0		
2060	inie:	0.8.6	12	000.0013	8.19.	28,999	· A pea	10, 2000-127 12	W. T. W. M. Con	
TABLE 6										

Operating ratios, 1983-1987

All United Kingdom businesses classified to the industry

	Unit	1983	1984	1985	1986	1987
Gross output per head	£	27,213	32,795	36,705	40,597	44, 194
Net output per head	£	13,709	16,363	18,942	20,825	22,484
Gross value added per head	£	10,852	12,981	15,441	16,872	17,892
Gross value added as a percentage of gross output	%	40	40	42	42	41
Ratio of gross output to stocks		3.6	3.9	4.1	4.3	4.9
Nages and salaries as a percentage of gross value added	%	70	64	59	60	60
Ratio of operatives to administrative, echnical and clerical employees		1.3	1.4	1.4	1.3	1.4
Wages and salaries per operative	£	6,916	7,659	8,239	9,250	9,969
Nages and salaries per administrative, echnical and clerical employee	£	8,487	9,219	10,518	11,304	12,176
Net capital expenditure per head	£	541	1,011	1,240	1, 121	1,451
Net capital expenditure as a percentage of gross value added	%	5	8	8	7	8

TABLE 7

PA327

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1987 All United Kingdom businesses classified to the industry

Area		Total employme (a)	ent	Net cap expendi (b)	ture	Net out (c)	out	Gross v added a factor c	it
		(a)		(0)				(c)	ost
The Londing work					1.1				<u>a 1999 de destre a 18</u>
		Thousand	per cent of United	£ million	per cent of United	£ million	per cent of United	£ million	per cent of United
			Kingdom		Kingdom		Kingdom		Kingdom
Standard regions of England	d								
North		0.8	2.6	1.7	3.9	17.0	2.6	14.1	2.7
Yorkshire and Humberside		3.7	12.6	9.7	22.9	94.8	14.5	75.6	14.5
East Midlands		3.0	10.3	2.8	6.6	62.3	9.5	50.8	9.7
East Anglia		2.1	7.2	4.7	11.0	69.5	10.6	55.0	10.5
South East		8.7	29.9	10.7	25.4	201.8	30.8	155.2	29.8
South West		2.2	7.6	1.9	4.4	43.4	6.6	34.3	6.6
West Midlands		1.8	6.0	1.3	3.0	33.3	5.1	26.5	5.1
North West	5.22	5.8	19.9	8.0	18.8	108.7	16.6	89.6	17.2
England	dart	28.0	96.1	40.6	96.1	630.7	96.2	501.1	96.1
Vales		0.6	1.9	0.8	1.9	12.9	2.0	10.7	2.1
Scotland		0.5	1.9	0.8	2.0	11.0	1.7	9.1	1.8
Great Britain	14.5	29.1	99.9	42.3	99.9	654.7	99.9	521.0	99.9
Northern Ireland		-	0.1	-	0.1	0.7	0.1	0.6	0.1

(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.

Output and costs, 1987 All United Kingdom businesses classified to each Activity Heading within the industry

	Unit	3275		3276	
Enterprises(a)	Number	537	employme (a)	281	
Businesses	н	625		285	
Sales of goods produced	£ million	463.7		609.9	
Work done and industrial services rendered	loc. u	49.2		28.5	
Capital goods produced for use within the business		0.4		0.3	
Non-industrial services rendered	п.	9.2		1.5	
Goods merchanted or factored		36.9		76.0	
Total sales and work done	n 34 350	559.4		716.2	
Increase during the year, work in progress and goods on hand for sale		9.4		3.4	
Gross output		568.8		719.6	
Purchases of materials for use in pro- duction, packaging and fuel	1. P	227.3		294.2	
Purchases of goods for merchanting or		20.0		F2 7	
factoring	ö.87	28.0		53.7	
Increase during the year, stocks of materials, stores and fuel		3.7		5.1	
Cost of industrial services received	n. (19.1		19.5	
Net output	. C	298.1		357.3	
Total employment	Thousand	14.6		14.5	
Net output per head	f	20,366		24,620	
Cost of non-industrial services received					
Hire of vehicles, plant and machinery	£ million	3.4		7.1	
Rents of industrial and commercial	L minor	5.4		11.1	
buildings	n Nyalana amin'nya	1.8		5.1	
Commercial insurance premiums	n Listing benefitien	4.8		3.9	
Bank charges		1.1		0.7	machinory.
Other non-industrial services	0 0 1 2 m 0	35.1		59.2	
Licensing of motor vehicles		0.2		0.2	
Rates, excluding water rates	п	5.8		5.4	
Gross value added at factor cost	п	245.9		275.7	
Gross value added at factor cost per head	£	16,800		18,994	

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

TABLE 9

PA327

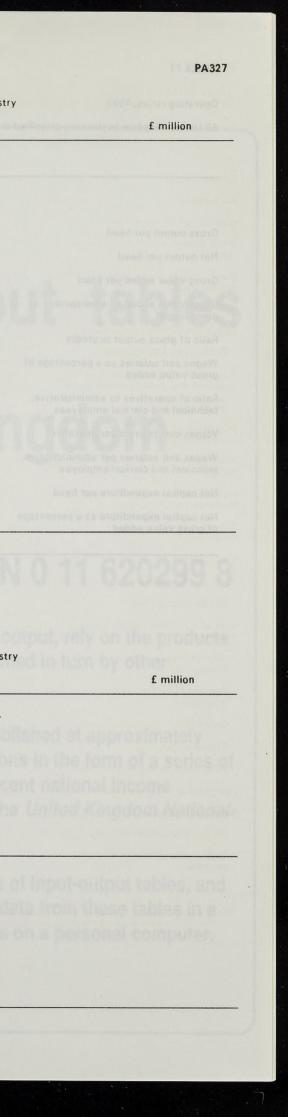
Capital expenditure, 1987 All United Kingdom businesses classified to each Activity Heading within the industry

	3275	_	3276
Land and buildings New building work	2.5		2.6
Land and existing buildings			
Acquisitions	0.8		0.7
Disposals	1.8		0.9
Net	1.5		2.4
Plant and machinery			
Acquisitions	11.0		25.8
Disposals	1.7		0.6
Net	9.3		25.2
Vehicles			
Acquisitions	3.2		3.4
Disposals	1.3		1.4
Net	1.9		2.0
Total net capital expenditure	12.7		29.6

TABLE 10

Stocks and work in progress, 1987 All United Kingdom businesses classified to each Activity Heading within the industry

	3275	3276
10a Increase during year	ol a series of an	alyses pu
Materials, stores and fuel	3.7	5.1
Work in progress	5.8	-2.5
Goods on hand for sale	3.7	5.9
Total	13.1	8.5
10b Value at end of year	er explaining the	principles
Materials, stores and fuel	28.0	45.9
Work in progress	64.4	72.3
Goods on hand for sale	22.9	31.5
Total	115.3	149.6



PA327

Operating ratios, 1987

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

a huganan	2.6	Unit	3275	3276	and buildings
Gross output per head		f	38,854	49,581	
Net output per head		£	20,366	24,620	
Gross value added per head		£	16,800	18,994	
Gross value added as a percentage of gross output		%	43	38	
Ratio of gross output to stocks			4.9	4.8	
Wages and salaries as a percentage of gross value added		%	60	60	
Ratio of operatives to administrative, technical and clerical employees			1.7	1.2	
Wages and salaries per operative		£	9,456	10,551	
Wages and salaries per administrative, technical and clerical employee		£	11,540	12,711	
Net capital expenditure per head		£	865	2,041	
Net capital expenditure as a percentage of gross value added		%	5	11	

	sheetings, stores and fuel

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