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# **Business Monitor**

Report on the Census of Production

Extraction of miscellaneous minerals (including salt)

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#### **BUSINESS MONITORS**

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## PA239

## **BUSINESS MONITOR**

A publication of the Government Statistical Service

## Report on the Census of Production 1986

Extraction of miscellaneous minerals (including salt)

Presented by the Secretary of State for Trade and Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Trade and Industry Business Statistics Office

London: Her Majesty's Stationery Office

## BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

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

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

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

Employment

		Employment
		percentage
		variation
PA1001	Introductory notes	
PA111	Coal extraction and manufacture of solid fuels	
PA120	Coke ovens	
PA120	Extraction of mineral oil and natural gas	
	Mineral oil processing	
PA140	Production and distribution of electricity	
PA161		
PA162	Public gas supply	
PA170	Water supply industry	38
PA210	Extraction and preparation of metalliferous ores	-1
PA221	Iron and steel industry	1
PA222	Steel tubes	-2
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	-1
PA242	Cement, lime and plaster	0
PA243	Building products of concrete, cement or plaster	-9
PA244	Asbestos goods	0
PA245	Working of stone and other non-metallic minerals	-2
	Abrasive products	-6
PA246		2
PA247	Glass and glassware	1
PA248	Refractory and ceramic goods	0
PA251	Basic industrial chemicals	1
PA255	Paints, varnishes and printing ink	1
PA256	Specialised chemical products mainly for industrial and agricultural purposes	i
PA257	Pharmaceutical products	0
PA258	Soap and toilet preparations	0
PA259	Specialised chemical products mainly for household and office use	
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
PA323	Machinery for the food, chemical and related industries; process engineering contractors	2
	Mining machinery, construction and mechanical handling equipment	3
PA325	Mechanical power transmission equipment	14
PA326	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and	
PA327		-4
	dry cleaning machinery	0
PA328	Miscellaneous machinery and mechanical equipment	0
PA329	Ordnance, small arms and ammunition	7
PA330	Manufacture of office machinery and data processing equipment	2
PA341	Insulated wires and cables	1
PA342	Basic electrical equipment	
PA343	Electrical equipment for industrial use, and batteries and accumulators	3
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	
	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
PA351	Motor vehicle bodies, trailers and caravans	-3
1 4552		

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

Employment

PA353       Motor vehicle parts       -2         PA353       Shipbuilding and repairing       -2         PA353       Creation of the transception instruments and apparatus       -2         PA354       Acrospice explorment manufacturing and repairing       -2         PA355       Motor vehicle instruments and photographic explorment       -2         PA354       Motor vehicle instruments and photographic explorment       -1         PA355       Motor vehicle instruments and photographic explorment       -1         PA354       Clocks, watches and other timing devices       -0         PA314       Clocks, watches and other timing devices       -5         PA414       Processing of fruit and vegetables       -6         PA415       Processing of fruit and vegetables       -2         PA416       Crain milling       -7         PA417       Processing of fruit and vegetables       -2         PA418       Brock biscuits and floar confectionery       -2         PA421       Incertam, cooca, chocalste and sugar confectionery       -2         PA422       Animal feeding stuffs       -3         PA423       Sturt distilling and compounding       -2         PA424 <t< th=""><th></th><th></th><th>percentage</th></t<>			percentage
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PA424Spirit distilling and compounding0PA424Wines, cider and perry2PA427Brewing and malting0PA428Soft drinks-1PA429Tobacco industry0PA431Woollen and worsted industry-2PA432Cotton and silk industries3PA433Throwing, texturing, etc. of continuous filament yarn-3PA434Spinning and weaving of flax, hemp and ramie-3PA435Jute and polypropylene yarns and flabrics0PA436Hosiery and other knitted goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA431Leather (tanning and dressing) and fellmongery-5PA441Leather goods-27PA455Household textiles and other made-up textiles-2PA456Household textiles and other made-up textiles-2PA457Household textiles and other of wood-17PA468Sawmilling, planing, etc. of wood-17PA469Miscellaneous wood products and further processing and treatment of wood-4PA464Wooden containers-6PA464Wooden anticles4PA475Printing and upolstered furniture and shop and office fittings-1PA476Wooden and upholstered furniture and shop and office fittings-1PA477Pulp, paper and board1PA478Rubber products-1 <t< td=""><td></td><td></td><td>-5</td></t<>			-5
PA426Wines, cider and perry2PA427Brewing and malting0PA428Soft drinks-1PA429Tobacco industry0PA431Woollen and worsted industry-2PA432Cotton and sik industries3PA433Throwing, texturing, etc. of continuous filament yarn-3PA434Spinning and weaving of flax, hemp and ramie-3PA435Jute and polypopylene yarns and fabrics0PA436Hosiery and other knitted goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather goods8PA451Footwear2PA454Louschold textiles and gloves7PA455Household textiles and other made-up textiles-2PA456Fur goods-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-17PA463Builders carpentry and joinery-5PA464Articles of cork and plaiting materials, brushes and brooms7PA465Miscellaneous wooden articles-4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden containers-6PA468Articles of cork and plaiting materials, brushes and brooms7PA469Miscellaneous wooden articles-1PA472Conversion of paper and board3PA473			
PA427Brewing and malting0PA428Soft drinks-1PA429Tobacco industry-2PA431Woollen and worsted industry-2PA432Cotton and silk industries3PA433Throwing, texturing, etc. of continuous filament yarn-3PA434Spinning and weaving of flax, hemp and ramie-3PA435Jute and polypropylene yarns and fabrics0PA436Hosiery and other knittel goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA453Clothing, hats and gloves7PA454Footwear2PA455Household textiles and other made-up textiles-2PA461Sawmilling, planing, etc. of wood-17PA462Maufacture of semi-finished wood products and further processing and treatment of wood-4PA464Wooden containers-6PA465Muiscellaneous wooden articles-1PA466Articles of cork and plaiting materials, brushes and brooms7PA467Poersing of plastics-1PA479Puhp, paper and board3PA481Rubber products-1PA483Processing of plastics-1PA464Naicellaneous sooden-1PA465Miscellaneous sooden-1PA466Articles of cork and plaiting materials, brushes an			
PA428Soft drinks-1PA429Tobacco industry0PA431Woollen and worsted industry-2PA432Cotton and silk industries3PA433Throwing, texturing, etc. of continuous filament yarn-3PA434Spinning and weaving of flax, hemp and ramie-3PA435Jute and polypropylene yarns and fabrics0PA436Hosiery and other knitted goads3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA431Leather (tanning and dressing) and fellmongery-6PA441Leather goods8PA453Clothing, hats and gloves7PA454Footwear2PA455Household textiles and other made-up textiles-2PA466Articles of cork and plaiting materials, brushes and brooms-1PA467Miscellaneous wooden articles-6PA468Miscellaneous wooden articles-1PA464Articles of cork and plaiting materials, brushes and brooms7PA467Printing and publishing5PA488Processing of plastics-1PA489Processing of plastics-1PA483Processing of plastics-1PA483Processing of plastics-1PA483Processing of plastics-1PA483Processing of plastics-1PA483Processing of plastics-1PA483Proces			
PA429Tobacco industry0PA431Woollen and worsted industry-2PA432Cotton and silk industries-3PA433Throwing, texturing, etc. of continuous filament yarn-3PA434Spinning and weaving of flax, hemp and ramie-3PA435Jute and polypropylene yarns and fabrics0PA436Hosiery and other knitted goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA442Leather goods8PA451Footwear2PA453Clothing, hats and gloves-2PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA457Fur goods-27PA468Wooden continers-6PA464Mooden continers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA477Pulp, paper and board3PA478Processing of plastics-1PA479Printing and publishing5PA471Pulp, paper and board3PA472Conversion of paper and board1PA473Processing of plastics-1PA483Processing of plastics-1 <t< td=""><td></td><td></td><td></td></t<>			
PA431Woollen and worsted industryPA432Cotton and silk industries3PA433Spinning and weaving of flax, hemp and ramie			
PA432Cotton and silk industries3PA433Throwing, texturing, etc. of continuous filament yarn-3PA434Spinning and weaving of flax, hemp and ramie-3PA435Jute and polypropylene yarns and fabrics0PA436Hosiery and other knitted goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA451Footwear2PA452Leather goods7PA453Clothing, hats and gioves7PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers7PA465Miscellaneous wooden articles4PA471Pulp, paper and board3PA472Conversion of paper and board3PA483Processing of plastics2PA484Puber products-1PA483Processing of plastics2PA484Puber yand coins5PA485Protographic and cinematographic processing laboratories-5PA484Photographic and cinematograp			
PA433Throwing, texturing, etc. of continuous filament yarn			
PA434Spinning and weaving of flax, hemp and ramie			
PA435Jute and polypropylene yarns and fabrics0PA436Hosiery and other knitted goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA442Leather (tanning and dressing) and fellmongery-5PA442Leather (tanning and dressing) and fellmongery-5PA442Leather goods8PA451Footwear2PA453Clothing, hats and gloves-2PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA457Builders carpentry and joinery-5PA468Builders carpentry and joinery-5PA464Wooden containers-6PA456Miscellaneous wooden articles-1PA457Printing and upholstered furniture and shop and office fittings-1PA470Up, paper and board3PA471Pulp, paper and board3PA473Processing of plastics-2PA481Rubber products-1PA482Musical instruments-5PA493Photographic and cinematographic processing laboratories-5PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA494Toys and sports goods-1			
PA436Hosiery and other knitted goods3PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA442Leather goods8PA451Footwear2PA452Clothing, hats and gloves7PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA457Sawmilling, planing, etc. of wood-117PA468Builders carpentry and joinery-5PA469Builders carpentry and joinery-5PA460Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA467Wooden and upholstered furniture and shop and office fittings-1PA472Conversion of paper and board3PA473Processing of plastics2PA481Rubber products-1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-1PA493Protographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA495 <td>PA435</td> <td></td> <td></td>	PA435		
PA437Textile finishing3PA438Carpets and other textile floorcoverings1PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA442Leather goods8PA451Footwear2PA453Clothing, hats and gloves7PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA481Ruber products-1PA482Processing of plastics-2PA483Processing of plastics-5PA483Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA493Miscellaneous manufacturing industries-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries-6PA496Miscellaneous manufacturing indust	PA436		
PA439Miscellaneous textiles3PA441Leather (tanning and dressing) and fellmongery-5PA442Leather (tanning and dressing) and fellmongery-5PA441Leather (tanning and dressing) and fellmongery-5PA442Leather goods2PA453Clothing, hats and gloves7PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA471Pulp, paper and board3PA472Conversion of paper and board3PA473Printing and publishing5PA483Processing of plastics2PA491Jewellery and coins-1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA490Construction-1	PA437	Textile finishing	
PA441Leather (tanning and dressing) and fellmongery-5PA442Leather goods8PA451Footwear2PA452Clothing, hats and gloves7PA453Clothing, hats and gloves-2PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA481Rubber products-1PA483Processing of plastics-1PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA490Construction67	PA438	Carpets and other textile floorcoverings	1
PA442Leather goods8PA451Footwear2PA453Clothing, hats and gloves7PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles-6PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics-1PA483Processing of plastics-1PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries-6PA500Construction-1			3
PA451Footwear2PA453Clothing, hats and gloves7PA454Household textiles and other made-up textiles-2PA455Household textiles and other made-up textiles-2PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA477Wooden and upholstered furniture and shop and office fittings-1PA477Pulp, paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction67			-5
PA453Clothing, hats and gloves7PA454Household textiles and other made-up textiles-2PA455Fur goods-27PA456Fur goods-17PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries-5PA495Miscellaneous manufacturing industries-6			8
PA455Household taxtiles and other made-up textiles-2PA456Fur goods-27PA451Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA471Pulp, paper and board1PA472Conversion of paper and board3PA475Printing and publishing5PA481Rubber products-1PA493Processing of plastics2PA494Toys and sports goods-5PA495Miscellaneous manufacturing industries-5PA495Miscellaneous manufacturing industries-6PA495Miscellaneous manufacturing industries-6PA495Construction-1			2
PA456Fur goods-27PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA483Processing of plastics-1PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1			
PA461Sawmilling, planing, etc. of wood-17PA462Manufacture of semi-finished wood products and further processing and treatment of wood-4PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA450Construction67			
PA462Manufacture of semi-finished wood products and further processing and treatment of wood-17PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA481Rubber products-1PA492Jewellery and coins1PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction67			
PA463Builders carpentry and joinery-5PA464Wooden containers-6PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA481Rubber products-1PA492Musical instruments2PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA450Construction67			
PA464Wooden containers-5PA465Miscellaneous wooden articles-6PA465Articles of cork and plaiting materials, brushes and brooms7PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA494Jewellery and coins1PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA450Construction67		Builders carpentry and joinery	
PA465Miscellaneous wooden articles4PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA475Printing and publishing5PA481Rubber products-1PA482Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-5PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1			0
PA466Articles of cork and plaiting materials, brushes and brooms7PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1			
PA467Wooden and upholstered furniture and shop and office fittings-1PA471Pulp, paper and board1PA472Conversion of paper and board3PA473Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-1PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1	PA466		
PA471Pulp, paper and board1PA472Conversion of paper and board3PA472Conversion of paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1	PA467	Wooden and upholstered furniture and shop and office fittings	
PA472Conversion of paper and board3PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1	PA471		
PA475Printing and publishing5PA481Rubber products-1PA483Processing of plastics2PA491Jewellery and coins1PA492Musical instruments-5PA493Photographic and cinematographic processing laboratories-1PA494Toys and sports goods-1PA495Miscellaneous manufacturing industries67PA500Construction-1		Conversion of paper and board	
PA483   Processing of plastics   -1     PA491   Jewellery and coins   1     PA492   Musical instruments   -5     PA493   Photographic and cinematographic processing laboratories   -5     PA494   Toys and sports goods   -1     PA495   Miscellaneous manufacturing industries   67     PA500   Construction   -7		Printing and publishing	
PA491   Jewellery and coins   1     PA492   Musical instruments   1     PA493   Photographic and cinematographic processing laboratories   -5     PA494   Toys and sports goods   -1     PA495   Miscellaneous manufacturing industries   67     PA500   Construction   67			-1
PA492   Musical instruments   1     PA493   Photographic and cinematographic processing laboratories   -5     PA494   Toys and sports goods   -1     PA495   Miscellaneous manufacturing industries   67     PA500   Construction   67			2
PA493   Photographic and cinematographic processing laboratories   -5     PA494   Toys and sports goods   -1     PA495   Miscellaneous manufacturing industries   67     PA500   Construction   67			1
PA494   Toys and sports goods   -1     PA495   Miscellaneous manufacturing industries   67     PA500   Construction   67		indical histoments	-5
PA495   Miscellaneous manufacturing industries   –1     PA500   Construction   67			
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### PA239 EXTRACTION OF MISCELLANEOUS MINERALS (INCLUDING SALT)

PA239

Page

The information in this report relates to establishments classified to the Extraction of miscellaneous minerals (including salt) industry, Groups 233 and 239 in the Standard Industrial Classification Revised 1980. The industry Groups cover the following Activity Headings:-

#### Salt extraction and refining 2330

Extraction and refining of salt. Processing, packaging, etc. of salt for culinary purposes at other establishments is classified to Group 423

#### Extraction of miscellaneous minerals not elsewhere specified 2396

Mining and quarrying potassium salts, barytes, fluorspar, silica stone, etc; and peat cutting. Ores and compounds with a metallic content but which are not normally used for the production of metal e.g. iron pyrites are included in this heading and not in Group 210.

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.

### LIST OF CONTENTS

Explanatory	notes and definitions		5-7
Table 1	Output and costs, 1982–1986		8
Table 2	Capital expenditure, 1982–1986		9
Table 3	Stocks, 1982–1986		9
Table 4	Employment, labour costs, output, net capital expenditure and stocks by size of total employment, 1986	footbal and upholosisted <sup>®</sup> Minibula vib., bisov anktiloard	10-11
Table 5	Percentage analysis of twelve-month periods covered by returns received for the 1986 Census by number of returns and total employment		12
Table 6	Operating ratios, 1982–1986		12
Table 7	Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1986		13
Table 8	Output and costs by activity heading, 1986		14
Table 9	Capital expenditure by activity heading, 1986		15
Table 10	Stocks by activity heading, 1986		15
Table 11	Operating ratios by activity heading, 1986		16

4

### 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 ocation (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 common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 - Analyses of United Kingdom Manufacturing (Local) Units by Employment Size. During 1984, for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs and Excise VAT records.

The annual Census and other inquiries provide a major source of information for updating and checking the register. For establishments on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on 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

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

Establishments were asked to make returns for the calendar 9 1986 but, where this was not possible, returns for business vear years ending between 6 April 1986 and 5 April 1987 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

#### ESTIMATION

10. All published Census results include estimates for 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 BELATING TO

INDIVIDUAL UNDERTAKINGS

Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states that.

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

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

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

#### CHANGES MADE FOR 1986

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

#### SYMBOLS USED

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

R

- 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 18 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 19 The notes and definitions given in this section are based on the instructions given to respondents as to the viay 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. No allowance is made for depreciation, amortisation or obsolescence.

#### on LAND AND EXISTING BUILDINGS a.

21. This represents the value of freeholds and the value or premium payable or receivable for leaseholds acquired or disposed of. The figures for acquisitions include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees The figures for disposals are net of any such professional fees payable.

#### 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.

#### c. 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 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 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

h

28. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES on the payroll and the number of WORKING PROPRIETORS employed during the year of return. Full-time and part-time employees are included but outworkers (i.e. people who worked in their own homes on materials supplied by establishments) and casual employees such as jobbers are excluded. The average number of employees returned by individual establishments may have been calculated by, for example, the average of the number of employees on the payroll for the last week of each calendar month.

#### ADMINISTRATIVE, TECHNICAL AND CLERICAL 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

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.

#### c. WORKING PROPRIETORS

31. These are people who are regarded as self-employed for national insurance purposes, members of their families who worked in the business without receiving a definite wage or salary for at least half the normal working hours and directors who worked in the business but did not receive a definite wage, salary or commis-Part-time directors paid by fee only and directors who sion received a definite wage, salary or commission are excluded.

#### GROSS OUTPUT

This is calculated by increasing (or decreasing) the value of 32. 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

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

GROSS VALUE ADDED AT FACTOR COST PER HEAD 34. This is calculated by dividing GROSS VALUE ADDED AT FACTOR COST by total EMPLOYMENT.

#### NET CAPITAL EXPENDITURE

This is calculated by adding to the value of NEW BUILDING 35. 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. from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST OF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS OF MATERIALS, STORES AND FUEL.

#### NET OUTPUT PER HEAD

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

#### NON-INDUSTRIAL SERVICES RENDERED

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

#### OPERATING RATIOS

These ratios are calculated using industry totals, i.e. including 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. PUF MERCHANTING OR FACTORING PURCHASES OF GOODS FOR

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 nurchaser

#### 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

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 and EMPLOYERS' NATIONAL INSURANCE allowances etc. CONTRIBUTIONS ETC. are excluded.

#### WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

#### WORK IN PROGRESS

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

#### TABLE 1

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

The net and withing a plan is	Unit	1982	1983	1984	1985	1986
Enterprises	 Number	139	143	·	149	217
Establishments		186	190	189(b)	188	260
Sales of goods produced	£ million	227.5	235.9	233.2	244.8	250.9
Work done and industrial services rendered		0.7	0.9	0.9	1.2	1.8
Capital goods produced for establish- ments' own use		0.7	0.3	0.3	0.2	0.2
Non-industrial services rendered	"	0.8	1.9	2.1	0.6	0.7
Goods merchanted or factored		0.8	2.2	4.1	8.1	4.9
Total sales and work done		230.4	241.2	240.5	254.9	258.6
Value of outward transport on goods sold :- by establishments' own staff		17.3	14.9	17.9	16.6	18.7
by other organisations		28.1	28.2	28.5	31.6	29.9
Increase during the year, goods on hand for sale		-2.4	-2.2	-0.8	4.0	2.3
Gross output		273.4	282.2	286.1	307.1	309.5
Purchases of materials for use in pro- duction, packaging and fuel		76.4	69.9	86.1	89.1	88.9
Purchases of goods for merchanting or factoring		0.6	1.8	3.3	7.0	3.8
Increase during the year, stocks of materials, stores and fuel		0.4	3.2	1.5	0.8	-3.8
Cost of industrial services received	MY, • CHICL.5	9.1	9.5	11.9	13.5	14.8
Net output		187.7	204.2	186.3	198.4	198.2
Total employment	Thousand	5.0	4.4	4.2(b)	4.2	4.2(c)
Net output per head	£	37,870	46,208	44,439	46,858	46,993
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	3.3	3.4	1.3	1.8	1.4
Rents of industrial and commercial buildings		0.2	0.1	0.1	0.1	0.1
Commercial insurance premiums		1.2	1.1	1.1	1.3	1.6
Bank charges			REMANDINGER	Contrato a consegue dana	0.1	0.1
Other non-industrial services	"	31.5	32.9	34.0	37.2	37.2
Licensing of motor vehicles		0.8	0.8	1.0	1.1	1.2
Rates, excluding water rates		2.1	2.3	2.3	2.6	3.1
Gross value added at factor cost		148.5	163.5	146.4	154.2	153.5
Gross value added at factor cost per head	£	29,953	36,995	34,934	36,419	36,405

(a) Satisfactory returns accounted for 71 per cent of the 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 employed being decreased by 6% 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

(c) Returned figures gave a total of 11 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

### TABLE 2

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

harves (a) control	1982	1983	1984	1985	1986	
	notions		- http://		en de ser la companya de la companya	
Land and buildings						
New building work	0.7	1.0	1.2	0.8	0.1	
Land and existing buildings						
Acquisitions	0.3	0.6	0.7	2.5	0.2	
Disposals	0.3	1.3	tonat -	0.2	0.2	
Net	0.7	0.3	1.9	3.1	0.1	
Plant and machinery						
Acquisitions	8.8	9.4	7.1	9.4	11.7(a)	
Disposals	0.2	0.2	0.2	0.2	0.3	
Net	8.6	9.2	6.9	9.1	11.4	
Vehicles						
Acquisitions	3.0	5.6	3.7	3.7	3.1	
Disposals	0.4	3.5	0.4	0.3	0.3	
Net	2.6	2.1	3.3	3.4	2.7	
Total net capital expenditure	12.0	11.7	12.0	15.6	14.3	

(a) Returned figures gave a total of £48 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

#### TABLE 3

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

						£ million
	1982	1983	1984	1985	1986	Value at end of 1986
		Inc	crease during y	ear		
Materials, stores and fuel	0.4	3.2	1.5	0.8	-3.8	9.3
Goods on hand for sale	-2.4	-2.2	-0.8	4.0	2.3	11.3
Total	-2.0	or be 1.1	0.8	4.9	-1.4	20.6

9

PA239

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

#### All United Kingdom establishments classified to the industry (a)

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	group I	Estab- lish ments	Enter- prises (b)	Employment	- 139		Wa	ges and sa			
head       head       head         Number       Number       Thousand       Thousand       Thousand       £ million       £       £ million       £         1-9       197       178       0.6)       1.4       0.4       15.1       10,567       3.6       10,00         20-49       9       6       0.33       1.4       0.4       15.1       10,567       3.6       10,00         30-299       5       3       0.7       0.6       0.2       6.6       11,848       2.1       11,65         300-Plus       3       3       1.6       1.3       0.3       17.1       12,869       4.4       15.3				including working		ative,tech- nical and	Ope	eratives	130	technica	
1-9     197     178     0.63     1.4     0.4     15.1     10.567     3.6     10.00       20-49     9     6     0.33     3     1.4     0.4     15.1     10.567     3.6     10.00       50-99     4     4     0.43     0.6     0.2     6.6     11.848     2.1     11.63       100-299     5     3     0.7     0.6     0.2     6.6     11.848     2.1     11.63       300-Plus     3     3     1.6     1.3     0.3     17.1     12.869     4.4     15.34							Tot	al		Total	
1-9     197     178     0.6)       10-19     42     36     0.6)       20-49     9     6     0.3)       50-99     4     4     0.4)       100-299     5     3     0.7     0.6     0.2     6.6     11,848     2.1     11,65       300-Plus     3     3     1.6     1.3     0.3     17.1     12,869     4.4     15.3	And the second s	Number	Number	Thousand	Thousand	Thousand	£ n	nillion	£	£ million	n E
10-19     42     36     0.6     1.4     0.4     15.1     10,567     3.6     10,06       20-49     9     6     0.3     3     0.7     0.6     0.2     6.6     11,848     2.1     11,63       100-299     5     3     0.7     0.6     0.2     6.6     11,848     2.1     11,63       300-Plus     3     3     1.6     1.3     0.3     17.1     12,869     4.4     15.3											
20-49     9     6     0.3)     1.4     0.4     15.1     10,567     3.6     10,00       50-99     4     4     0.4)     100-299     5     3     0.7     0.6     0.2     6.6     11,848     2.1     11,653       300-Plus     3     3     1.6     1.3     0.3     17.1     12,869     4.4     15,30	1-9	197	178	0.6)							
20-49 9 6 0.3) 50-99 4 4 0.4) 100-299 5 3 0.7 0.6 0.2 6.6 11,848 2.1 11,65 300-Plus 3 3 1.6 1.3 0.3 17.1 12,869 4.4 15,30	10-19	42	36	0.6)		0.4		15 1	10 567	3.6	10 097
100-299       5       3       0.7       0.6       0.2       6.6       11.848       2.1       11.63         300-Plus       3       3       1.6       1.3       0.3       17.1       12,869       4.4       15.38	20-49	9	6	0.3)	1.4	0.4		13.1	10,507	0.0	10,007
300-Plus 3 3 1.6 1.3 0.3 17.1 12.869 4.4 15.30	50-99	4	4	) 0.4)							
	100-299	5	3	0.7	0.6	0.2		6.6	11,848	2.1	
	300-P1us	3	3	1.6	1.3	0.3		17.1	12,869	4.4	15,300

(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 £7.2 million.

10

(d) Gross value data relates to establishments employing 1 299.

Total sales and work done	Gross output	Net output		Gross value added at factor cost	No con	Net capital expenditure	year
		Total	per head	Total	per head		
million	£ million	£ million	£	£ million	£	£ million	£ million
94.1	119.7	72.2	38,708	(d)	(d)	6.6	5.1
42.9	53.3	36.9	50,219	84.0(d)	32,308(d)	3.5	1.7
121.5	136.5	89.1	55,072	69.5	42,938	4.1	13.7

258.6	309.5	198.2	46,993	153.5	1110 20	36,405		20.6
						Today Lond 10	ja affettañ alt e se si gen reginer, outre r	Colleg bas hadew

11

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#### TABLE 5

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

Account	ting year ended		entage of total	returns		centage of tota	al
		recei	ved		em	ployment	
1986	April 6-30		TO DODDE			-	21943
	Мау		-			-	
	June		4.8			3.0	
	July		-			-	
	August		- lidol			1-221	
	September		4.8			1.1	
	October		Considered P			conthe Telling	
	November		14.3			3.1	
	December		71.4			85.1	
1987	January		- 0 ) 9				
	February		-			-	
	1 March - 5 April		4.8			7.7	

TABLE 6

#### Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
Gross output per head	£	55,157	63,852	68,252	72,535	73,396
let output per head	£	37,870	46,208	44,439	46,858	46,993
Gross value added per head	£	29,953	36,995	34,934	36,419	36,405
Gross value added as a percentage of ross output	x	54	58	51	50	50
atio of gross output to stocks		13.7	12.8	16.2	13.4	15.0
lages and salaries as a percentage of ross value added	x	21	24	27R	29	32
atio of operatives to administrative, chnical and clerical employees		3.5	3.5	4.1	4.1	4.0
lages and salaries per operative	£	7,966	8,931	9,598R	10,520	11,704
ages and salaries per administrative, echnical and clerical employee	£	8,641	8,674	9,976	11,012	12,270
et capital expenditure per head	£	2,412	2,638	2,870	3,688	3,384
et capital expenditure as a percentage f gross value added	x	8	7	8	10	9

12

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

Area		Total employn	6885	Net cap		Net out	put	Gross v	
		(a)	ient	expend (b)	iture	(c)		added a factor c (c)	
Company And State State St.			dis.					(0)	
		Thousan	d per cent of	£ million	per cent of	£ million	per cent of	£ million	per cent of
			United Kingdom		United Kingdom		United Kingdom		United Kingdom
Standard regions of England									
North		*			•		• emdecad		
Yorkshire and Humberside		0.3	6.4	0.6	4.4	9.0	4.5	7.3	4.7
East Midlands		0.2	4.1	0.6	4.4	6.7	3.4	5.1	3.3
East Anglia		0.2	5.4	1.4	9.5	8.3	4.2	5.6	3.6
South East		0.6	14.6	1.5	10.2	27.0	13.6	20.6	13.4
South West			•	*				•	•
West Midlands		0.2	4.3	0.6	4.1	6.9	3.5	5.2	3.4
North West	2.175	1.0	24.0	5.2	36.4	78.4	39.6	62.7	40.8
England		3.8	89.9	12.0	84.2	183.4	92.5	142.0	92.5
Wales		0.1	1.8	0.3	2.0	3.0	1.5	2.3	1.5
Scotland		0.2	5.4	1.0	6.9	7.2	3.6	5.4	3.5
Great Britain		4.1	97.1	13.3	93.1	193.6	97.7	149.8	97.5
Northern Ireland	e. 11 b. rer	0.1	2.9	1.0	6.9	4.6	2.3	3.8	2.5
United Kingdom		4.2	100.0	14.3	100.0	198.2	100.0	153.5	100.0

(a) Average number employed during the year, including full and part-time employees and working proprietors.

(b) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(c) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

13

i) The count of celeromises shown in each control represents the number of enterprises owning the establishments, shown of each activity heading. Because an enterprise may own establishments in more than one activity heading. The counts may exceed the total for the industry.

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

	Unit		2330	- tutot	2396	
Enterprises(a)	Number	expend (b)	5	myorqme (*)	213	
Establishments			5		255	
Sales of goods produced	£ million		84.4		166.5	
Work done and industrial services rendered	ol Linked Kingdom		0.9		1.0	
Capital goods produced for establish- ments' own use	. 4.0		0.2		-	
Non-industrial services rendered			0.4		0.2	
Goods merchanted or factored			2.2		2.7	
Total sales and work done			88.1		170.4	
Value of outward transport on goods sold :-	2.0		1.3		17.4	
by establishments' own staff	5.01				21.2	
by other organisations			8.7		21.2	
Increase during the year, goods on hand for sale	"r_#		0.1		2.2	
Gross output	"a.ac		98.2		211.3	
Purchases of materials for use in pro- duction, packaging and fuel	"s. 145		26.8		62.1	
Purchases of goods for merchanting or factoring			1.7		2.1	
Increase during the year, stocks of materials, stores and fuel	ø.a 		-0.2		-3.6	
Cost of industrial services received	to the address of		3.0		11.9	
Net output	.e.ə 		66.5		131.6	
Total employment	Thousand		0.8		3.4	
Net output per head	f		85,101		38,317	
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million		0.4		0.9	
Rents of industrial and commercial buildings	a another he a		nan 10 gella		0.1	
Commercial insurance premiums	date so: in angle date so: in source		0.4		1.2	
Bank charges					2.210 -	
Other non-industrial services			12.2		25.0	
Licensing of motor vehicles			0.1		1.1	
Rates, excluding water rates			0.8		2.4	
Gross value added at factor cost			52.7		100.9	
Gross value added at factor cost per head	ſ		67,329		29,365	

(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.

14

## TABLE 9

PA239

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

		2330	2396	
Land and buildings				
New building work		0.1	-	
Land and existing bu	ildings			
Acquisitions		ror, ca =	0.2	
Disposals		0.1	0.1	
Net		0.1	0.1	
Plant and machinery				
Acquisitions		3.6	8.1	
Disposals		-	0.3	
Net		3.6	7.8	
/ehicles				
Acquisitions		1.0	2.1	
Disposals		0.1	0.2	
Net		0.9	1.9	
Total net capital e	xpenditure	4.5	9.7	

#### TABLE 10

Stocks 1986 All United Kingdom establishments classified to each Activity Heading within the industry

2330	2396	opiomentar/ tables "
-0.2	-3.6	
0.1	2.2	
-0.1	-1.4	
The Library		
0.5	8.7	
2.3	9.0	
2.9	17.7	
	0.1 -0.1 0.5 2.3	0.1 2.2 -0.1 -1.4 0.5 8.7 2.3 9.0

PA239

#### Operating ratios, 1986

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

uarge too Single	1	Unit	2330	2396	and and building work
Gross output per head		£	125,619	61,507	
Net output per head		£	85,101	38,317	
Gross value added per head		£	67,329	29,365	
Gross value added as a percentage of					
gross output		%	54	48	
Ratio of gross output to stocks			34.3	11.9	
Wages and salaries as a percentage of gross value added		%	19	39	
Ratio of operatives to administrative,					
technical and clerical employees			3.5	4.2	
Wages and salaries per operative		£	12,075	11,621	
Wages and salaries per administrative,				2.2	
technical and clerical employee		£	15,181	11,500	
Net capital expenditure per head		£	5,794	2,836	
and users of maneralis for oversidiary					
Net capital expenditure as a percentage of gross value added		%	9	10	

		-	
closes, which added at Realist goal, you know?			

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