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PA328 1985

STATISTICS BACK - UP **BUSINESS STATISTICS OFFICE** 

# **Business Monitor**

Report on the Census of Production

Miscellaneous machinery and mechanical equipment



**HMSO** 



A publication of the Government Statistical Service

## **BUSINESS MONITORS**

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# PA328

# **BUSINESS MONITOR**

A publication of the Government Statistical Service

Report on the Census of Production 1985

Miscellaneous machinery and mechanical equipment

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

Department of Trade and Industry
Business Statistics Office

London: Her Majesty's Stationery Office

## BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

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

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

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

Employment percentage variation PA1001 Introductory notes PA111 Coal extraction and manufacture of solid fuels PA120 Coke ovens PA130 Extraction of mineral oil and natural gas PA140 Mineral oil processing Production and distribution of electricity PA161 PA162 Public gas supply PA170 Water supply industry PA210 Extraction and preparation of metalliferous ores PA221 Iron and steel industry PA222 Steel tubes PA223 Drawing, cold rolling and cold forming of steel PA224 Non-ferrous metals industry PA231 Extraction of stone, clay, sand and gravel PA239 Extraction of miscellaneous minerals (including salt) PA241 Structural clay products PA242 Cement, lime and plaster PA243 Building products of concrete, cement or plaster PA244 Asbestos goods Working of stone and other non-metallic minerals PA245 Abrasive products PA246 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 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

Electrical equipment for industrial use, and batteries and accumulators

Telecommunication equipment, electrical measuring equipment, electronic capital goods and

PA342 Basic electrical equipment

PA351 Motor vehicles and their engines

passive electronic components

Miscellaneous electronic equipment

Domestic-type electric appliances PA347 Electric lamps and other electric lighting equipment

PA352 Motor vehicle bodies, trailers and caravans

PA343

PA344

PA345

PA346

## BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		Employme
		percentage variation
		Variation
PA353	Motor vehicle parts	-2
PA361	Shipbuilding and repairing	0
PA362	Railway and tramway vehicles	0
PA363	Cycles and motor cycles	0
PA364	Aerospace equipment manufacturing and repairing	2
PA365	Miscellaneous vehicles	4
PA371	Measuring, checking and precision instruments and apparatus  Medical and surgical equipment and orthopaedic appliances	-8
PA372	Optical precision instruments and photographic equipment	lease to 1 to enu
PA373	Clocks, watches and other timing devices	0
PA374	Organic oils and fats	converse of mary re
PA411 PA412	Slaughtering of animals and production of meat and by-products	
PA412	Preparation of milk and milk products	-5
PA414	Processing of fruit and vegetables	0
PA414	Fish processing	-4
PA416	Grain milling	-7
PA419	Bread, biscuits and flour confectionery	14
PA420	Sugar and sugar by-products	0
PA421	Ice-cream, cocoa, chocolate and sugar confectionery	-2
PA422	Animal feeding stuffs	-5
PA423	Starch and miscellaneous foods	2
PA424	Spirit distilling and compounding	0
PA426	Wines, cider and perry	2
PA427	Brewing and malting	0
PA428	Soft drinks	olaser <del>"</del> 1oeragi
PA429	Tobacco industry	0
PA431	Woollen and worsted industry	-2
PA432	Cotton and silk industries	3
PA433	Throwing, texturing, etc. of continuous filament yarn	-3
PA434	Spinning and weaving of flax, hemp and ramie	-3
PA435	Jute and polypropylene yarns and fabrics	0
PA436	Hosiery and other knitted goods	3
PA437	Textile finishing	pa gelino 3 lb no
PA438	Carpets and other textile floorcoverings	3
PA439	Miscellaneous textiles	<b>–</b> 5
PA441	Leather (tanning and dressing) and fellmongery	-3
PA442	Leather goods	2
PA451	Footwear	7
PA453	Clothing, hats and gloves	-2
PA455	Household textiles and other made-up textiles	-27
PA456	Fur goods prepared completions and class contract to residence principles retire and exception grant	-17
PA461	Sawmilling, planing, etc. of wood  Manufacture of semi-finished wood products and further processing and treatment of wood	-4
PA462		-5
PA463	Bullders carpetiting and joinery	-6
PA464	Wooden containers	4
PA465	Miscellaneous wooden articles Articles of cork and plaiting materials, brushes and brooms	mos has 7 has
PA466	Wooden and upholstered furniture and shop and office fittings	remon been later
PA467		10 11
PA471	Pulp, paper and board  Conversion of paper and board	3
PA472 PA475	Printing and publishing	5
PA481	Rubber products	-1
PA483	Processing of plastics	2
PA491	Jewellery and coins	rito la estrati
PA492	Musical instruments	<b>–</b> 5
PA493	Photographic and cinematographic processing laboratories	
PA494	Toys and sports goods	-1
PA495	Miscellaneous manufacturing industries	67
PA500	Construction	
	2 Summary tables	

The information in this report relates to establishments classified to the Miscellaneous machinery and mechanical equipment industry, Group 328 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:—

## 3281 Internal combustion engines (except for road vehicles, wheeled tractors primarily for agricultural purposes and aircraft) and other prime movers

## 1. Industrial internal combustion engines

Manufacture of internal combustion reciprocating engines other than for road vehicles, wheeled tractors primarily for agricultural purposes, ships and aircraft. Included are stationary engines for machinery and generators, and engines for mobile equipment such as pumps, compressors, agricultural machinery, construction, earthmoving and mechanical handling equipment, and for rail traction engines

## 2. Marine engines

Manufacture of internal combustion engines and steam and gas turbines for propulsion and other marine uses, including freshwater vessels.

#### 3. Other prime movers

Manufacture of steam and gas turbines and other prime movers for all applications except for road vehicles, ships, aircraft and electricity generation.

## 3283 Compressors and fluid power equipment

## 1. Compressors

Manufacture of air and gas compressors and exhausters other than compressors for commercial refrigeration machinery.

## 2. Oil hydraulic equipment

Manufacture of equipment for operating machinery by hydraulic means including actuators, control valves, hydraulic pumps and motors.

#### 3. Pneumatic control equipment

Manufacture of equipment for operating machinery by pneumatic means including actuators and control valves.

## 3284 Refrigerating machinery, space heating, ventilating and air conditioning equipment

## 1. Refrigerating machinery

Manufacture of refrigerating machinery, commercial refrigerators and commercial refrigerating equipment including deep freeze and quick freeze machinery but excluding domestic type refrigerators and deep freeze units which are classified to Group 346.

## 2. Space heating equipment

Manufacture of warm air generators, central heating boilers, heat emitters and other water, steam and radiant heating equipment but excluding domestic type gas heaters and domestic type electric heaters which are classified to Groups 316 and 346 respectively.

## 3. Fans and other ventilating equipment

Manufacture of fans, ventilators and ventilating units including hoods, cowls and ducting. Fans for industrial purposes are included. Domestic type electric fans are classified to Group 346.

## 4. Air conditioning equipment

Manufacture of air conditioning and dust extraction systems including major components thereof. Air treatment and distribution equipment is included.

## 5. Burners

Manufacture of domestic and industrial oil fuel and other burners.

## 3285 Scales, weighing machinery and portable power tools

## 1. Scales and weighing machinery

Manufacture of scales, spring balances and other weighing machines other than analytical and other precision balances which are classified to Group 371.

## 2. Portable power tools

Manufacture of portable power tools including those used in civil engineering, mining and quarrying. Flexible shaft drive tools are included.

## 3286 Other industrial and commercial machinery

## 1. Industrial and commercial machinery and service equipment

Manufacture of non-electronic testing machines and equipment, coin or token operated automatic slot machines, garage equipment, fire-fighting equipment, hand, power and tractor operated mowers for lawns, parks and sports grounds. Electronic testing equipment is classified to Group 344 and measuring, checking and precision testing instruments and apparatus to Group 371. Hand held fire extinguishers are classified to Group 316 and agricultural mowers to Group 321.

## 2. Machinery for foundries and rolling mills

Manufacture of founding and die-casting equipment and metallurgical rolling mills.

## 3. Manufacture of other machinery and mechanical equipment not elsewhere specified

## 3287 Pump

Manufacture of centrifugal reciprocating, rotary and other pumps for liquids including hand metering and petrol station pumps but excluding pumps for internal combustion engines, which are classified according to the type of engine.

## 3288 Industrial valve

Manufacture of industrial type valves, taps and cocks. Valves for internal combustion engines are excluded and classified according to the type of engine.

## 3289 Mechanical, marine and precision engineering not elsewhere specified 1 Marine engineering

Manufacture of auxiliary marine machinery (other than engines and turbines), diving and underwater engineering equipment not elsewhere specified.

## 2. Precision components for engines and machinery not elsewhere specified

Manufacture of precision components common to wide ranges of engines and machinery e.g. pistons, gaskets, lubricators.

## 3. Mechanical engineering work not elsewhere specified

Manufacture of gas welding and cutting machines and torches. Electric welding equipment is classified to Group 343. Establishments undertaking general sub-contract or repair work. Establishments manufacturing mechanical engineering products (including machinery parts) not elsewhere specified, or of such a mixed character that they cannot be placed elsewhere in Class 32.

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 7.

## LIST OF CONTENTS

ory notes and definitions		7-9
Output and costs, 1981–1985		10
Capital expenditure 1981—1985		11
Stocks and work in progress, 1981–1985		11
Employment, labour costs, output, net capital expend work in progress by size of total employment, 1985	iture and stocks and	12–1
Percentage analysis of twelve-month periods covered b for the 1985 Census by number of returns and total er	y returns received nployment	14
Operating ratios, 1981–1985		14
Regional distribution of employment, net capital expe and gross value added at factor cost, 1985	enditure, net output	15
Output and costs by activity heading, 1985		16–1
Capital expenditure by activity heading, 1985		18–1
Stocks and work in progress by activity heading, 1985	11/1/11	18–1
Operating ratios by activity heading, 1985		20
	Output and costs, 1981–1985  Capital expenditure 1981–1985  Stocks and work in progress, 1981–1985  Employment, labour costs, output, net capital expend work in progress by size of total employment, 1985  Percentage analysis of twelve-month periods covered b for the 1985 Census by number of returns and total er Operating ratios, 1981–1985  Regional distribution of employment, net capital expendent and gross value added at factor cost, 1985  Output and costs by activity heading, 1985  Capital expenditure by activity heading, 1985  Stocks and work in progress by activity heading, 1985	Output and costs, 1981–1985  Capital expenditure 1981–1985  Stocks and work in progress, 1981–1985  Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1985  Percentage analysis of twelve-month periods covered by returns received for the 1985 Census by number of returns and total employment  Operating ratios, 1981–1985  Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1985  Output and costs by activity heading, 1985  Capital expenditure by activity heading, 1985  Stocks and work in progress by activity heading, 1985

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

#### REPORTING UNIT

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

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

## THE REGISTER

5. A register of production units throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries to the production sector. For each unit the register contains identification particulars and information about that unit's eligibility for inclusion in an inquiry, its relationship with other units in common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 — Analyses of United Kingdom Manufacturing (Local) Units by Employment Size. During 1984, for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs and Excise VAT records

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

## COVERAGE

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

Under the sampling arrangements agreed for the 1985 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. 16,800 forms were despatched to production establishments in the United Kingdom for the 1985 Census.

## PERIOD COVERED

Establishments were asked to make returns for the calendar year 1985 but, where this was not possible, returns for business years ending between 6 April 1985 and 5 April 1986 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year

10. All published Census results include estimates for non-responders, unsatisfactory returns and establishments not selected for the Census. Estimates are also made for items not covered on the shorter form sent to smaller establishments

Within employment size groups in each industry, the 'average per head" is calculated for each census variable by dividing the total returned value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or unselected establishment to yield an estimated value for that establishment. Estimates for items not collected on the shorter form are made in a similar way using returned employment.

12. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on two measures. The first of these is the extent to which establishments making satisfactory returns account for the overall total for any heading. In practice a measure of this is normally taken to be the employment of establishments making satisfactory returns expressed as a percentage of the total estimated employment (this is given in footnote (a) to Table 1). Thus the accuracy of data published in an Industry Report where 95 per cent of the employment in the industry is covered by returns made, will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.

The second measure is the extent to which individual headings in an Industry Report are related to employment. Thus an estimate of total earnings which bears a close relationship to total employment is likely to be more accurate than an estimate of capital expenditure where the relationship to employment is not so clearly marked

## SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

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

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

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

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

## **CHANGES MADE FOR 1985**

16. The 1985 Census was a slimline one with fewer establishments receiving inquiry forms than in 1984, due to the increased use of sampling. The additional questions in the 1984 Census relating to road transport costs, and postal and telecommunications costs were excluded for 1985.

## SYMBOLS USED

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

not available

nil or less than half the final digit shown

figures cannot be shown owing to the risk of disclosing information about individual enterprises

revised

## ROUNDING OF FIGURES

18. Figures in the tables have been rounded to the nearest final digit where necessary and, in these instances, the sum of the constituent items may not always agree exactly with the total shown.

## EXPLANATION OF TERMS USED IN THE CENSUS REPORT

19. The notes and definitions given in this section are based on the instructions given to respondents as to the way in which returns were to be completed.

## CAPITAL EXPENDITURE

20. This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation purposes during the year to which each establishment's return related. The value is inclusive of any amounts received or expected to be received in grants and/or allowances from government sources, statutory bodies or local authorities. Where expenditure is spread over more than one Census year, payments are included in the years in which they were made. Capital expenditure during the year in respect of production units where production had not started before the end of the year and the value of CAPITAL GOODS 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.

## a. on LAND AND EXISTING BUILDINGS

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

#### h on NEW BUILDING WORK

22. This represents the value of new building and other constructional work such as the extension and reconstruction of old buildings, and the value of any newly constructed buildings acquired. The figures include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees.

## 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

24. This represents the value of all work of a capital nature carried out during the year by the establishments' own staff for use in the businesses covered by the returns.

## COST OF INDUSTRIAL SERVICES RECEIVED

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

## COST OF NON-INDUSTRIAL SERVICES RECEIVED

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

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

#### EMPLOYMENT

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.

## a. ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES

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

## b. 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 commission. Part-time directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

## **GROSS OUTPUT**

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

## GROSS VALUE ADDED AT FACTOR COST

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

GROSS VALUE ADDED AT FACTOR COST PER HEAD

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

## NET CAPITAL EXPENDITURE

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

## NET OUTPUT

36. This is a traditional census measure calculated by deducting from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST OF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS OF MATERIALS, STORES AND FUEL.

## NET OUTPUT PER HEAD

37. This is calculated by dividing NET OUTPUT by total

## 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**

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

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

These include the cost of raw materials, components, semimanufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, 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

This represents deliveries on sale of goods produced by 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 , trade discounts, agents' commissions, etc. and allowances on returned goods. Where products attract Excise duty, the value is inclusive of duty if goods are sold 'duty-paid' and exclusive of duty if goods are sold in bond or exported. The cost of packaging materials less allowances for returnable containers is included. Sales of fixed assets and exceptional receipts are excluded. Transfers of goods produced by an establishment to departments not covered by the return (including other establishments in the same enterprise group) are treated as sales, valued as if sold to an independent

## STOCKS

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

## WAGES AND SALARIES

44. This represents amounts paid during the year to ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed for this purpose from government sources, are included. No deduction is made for income tax or employees' national insurance contributions etc. Payments to WORKING PROPRIETORS, payments in kind, travelling expenses, lodging allowances etc. and EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. are excluded.

## WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

## WORK IN PROGRESS

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.

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TABLE 2

Capital expenditure, 1981-1985
All United Kingdom establishments classified to the industry

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£ million

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mercut (p) satisfies	1981	1982	1983	1984	1985	orational and and around a least one
Land and buildings						
New building work	28.7	17.8	17.9	18.0	30.6	
Land and existing buildings						
Acquisitions	15.8	16.9	16.7	16.8	19.5	
Disposals	7.2	14.4	12.3	16.4	26.1	
Net	37.3	20.3	22.3	18.4	24.0	
Plant and machinery						
Acquisitions	155.5	168.2	163.7	193.4	242.0	
Disposals	12.6	12.0	19.8	14.8	20.5	
Net	142.9	156.2	143.9	178.6	221.5	
Vehicles						
Acquisitions	26.3	31.4	31.5	34.2	36.1	
Disposals	9.8	10.9	12.1	11.9	11.6	
Net Olean	16.5	20.5	19.4	22.3	24.5	
Total net capital expenditure	196.7	197.0	185.6	219.3	269.9	4000 1000

TABLE 3

Stocks and work in progress, 1981-1985
All United Kingdom establishments classified to the industry

						£ million
	1981	1982	1983	1984	1985	Value at end of 1985
			Increase duri	ng year		
Materials, stores and fuel	-15.4	3.6	-16.0	18.8	49.0	597.6
Work in progress	42.4	50.9	120.0	116.9	-26.4	1,141.5
Goods on hand for sale	-14.0	67.7	-22.0	18.0	3.4	454.8
Total nombre disk teles	13.0	122.1	82.0	153.7	26.0	2,194.0

Output and costs, 1981-1985
All United Kingdom establishments classified to the industry (a)

	Unit	1981	1982	1983	1984	1985
Enterprises	Number	7,292	5,954	5,957	8,081(b)	8,434
Establishments		7,927	6,421	6,421	8,483(b)	8,865
Sales of goods produced	£ million	4,965.4	5,330.9	5,321.8	5,640.0	6,460.5
Work done and industrial services rendered		353.4	338.1	402.4	452.1	489.6
Capital goods produced for establishments' own use	п	7.3	7.3	6.6	6.8	7.2
Non-industrial services rendered		26.9	32.9	39.9	40.2	43.4
Goods merchanted or factored	n .	435.8	498.7	486.1	550.8	620.8
Total sales and work done		5,788.9	6,207.9	6,256.8	6,690.0	7,621.5
Increase during the year, work in progress and goods on hand for sale		28.4	118.6	98.0	134.9	-22.9
Gross output	n 38	5,817.3	6,326.4	6,354.8	6,824.8	7,598.5
Purchases of materials for use in production, packaging and fuel	D	2,313.7	2,548.5	2,572.4	2,796.8	3,128.6
Purchases of goods for merchanting or factoring		309.1	359.8	352.7	404.4	450.8
Increase during the year, stocks of materials, stores and fuel	n .	-15.4	3.6	-16.0	18.8	49.0
Cost of industrial services received		130.7	158.4	183.7	198.8	218.6
Net output	0	3,048.4	3,263.4	3,229.9	3,443.6	3,849.6
Total employment	Thousand	266.4	244.0	231.1	218.8	217.0
Net output per head	f	11,442	13,375	13,978	15,737	17,740
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	36.0	40.0	44.6	46.0	53.0
Rents of industrial and commercial buildings		35.5	37.3	39.4	39.3	43.3
Commercial insurance premiums		36.6	34.8	42.4	31.6	36.9
Bank charges		4.3	4.3	4.6	5.3	5.9
Other non-industrial services	er tra	296.6	365.3	402.3	430.5	458.9
Licensing of motor vehicles	n .	2.5	2.4	2.5	2.6	2.7
Rates, excluding water rates		54.3	58.9	61.3	62.4	67.8
Gross value added at factor cost		2,582.7	2,720.2	2,632.8	2,825.9	3,181.1
Gross value added at factor cost per head	f	9,694	11,149	11,394	12,914	14,660

(a) Satisfactory returns accounted for 69 per cent of employment within the industry in 1985.

(b) Use of a new register of businesses for 1984 has affected the number of enterprises and establishments. Further information is given on page 2.

## TABLE 4

Total

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1985

All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish-	Enter- prises	Employmen	tegay		Wages and s	alaries (c)		
	ments	(b)							
			Total, including working proprietors	Opera- tives	Administrative, technical and clerical	Operatives	april d	Administrati technical and clerical	
			8.0			Total	per	Total	per
						Total	head	210	head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
1-9	6,433	6,335	20.4)						
10-19	1,077	1,060	14.8)						
20-49	682	663	22.3)	`50.7	24.5	397.8	7,842	234.1	9,561
50-99	298	289	21.1)						
100-199	161	154	22.3	13.9	8.3	110.6	7,936	80.1	9,592
200-299	79	72	19.4	11.7	7.7	89.2	7,634	72.8	9,442
300-399	34	32	11.7	6.7	5.0	57.1	8,528	48.0	9,524
400-499	24	23	10.6	6.1	4.5	49.6	8,113	45.1	10,072
500-749	42	35	25.2	14.0	11.3	111.8	8,002	108.7	9,648
750-999	13	13	11.5	6.9	4.7	55.1	8,042	45.9	9,820
1,000-1,499	14	12	16.5	9.6	6.9	75.9	7,941	66.7	9,682
1,500-1,999	3	3	5.4	3.4	2.1	28.3	8,360	24.1	11,690
2,000-Plus	5	5	15.7	9.7	6.0	77.7	8,051	65.3	10,819

(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.

132.6

81.0

1,053.3

7,944

790.7 9,764

(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 £270.3 million. The remuneration of outworkers on returns received - also excluded from the table - was £234 thousand.

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

217.0

8,865 8,434

otal sales nd work one	Gross output	Net output		Gross value added at factor cost		Net capital expenditure	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
million	£ million 8	£ million	f	£ million	£	£ million	£ million
2,354.6	2,376.9	1,277.4	16,248	(a)	(d)	93.0	408.4
798.5	803.4	401.5	18,008	1,390.3(d)	13,779(d)	31.6	165.0
686.0	683.1	336.6	17,352	272.1	14,026	22.1	141.7
418.8	423.3	218.3	18,590	177.6	15,120	14.2	98.4
449.8	440.3	227.3	21,468	194.4	18,360	10.5	149.9
870.8	863.5	446.0	17,670	363.8	14,413	31.9	242.5
443.7	445.9	232.9	20,217	199.7	17,338	16.0	113.6
668.5	609.3	269.0	16,353	227.7	13,842	19.7	553.9
313.7	326.5	166.1	30,480	114.4	21,000	12.1	93.5
617.1	626.4	274.5	17,489	241.1	15,365	18.7	227.1

7,621.5

7,598.5

3,849.6

17,740

3,181.1

14,660

2,194.0

TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1985 Census by number of returns and total employment

Accour	nting year ended	Percentage of total re received	eturns	entage of total loyment	Assus to
1985	10.00	2.4		1.2	806
	April 6-30				
	May	1.4		0.6	
	June	6.5		5.7	
	July	3.2		2.1	
	August	2.6		1.0	
	September	8.1		6.7	
	October	3.5		3.1	
	November	3.3		3.1	
	December	40.7		45.5	
1986	January	2.6		6.3	
	February	1.7		0.7	
	1 March - 5 April	24.0		23.8	

TABLE 6

Operating ratios: 1981-1985

All United Kingdom establishments classified to the industry

	Unit	1981	1982	1983	1984	1985	
Gross output per head	£	21,835	25,929	27,500	31,189	35,017	
Net output per head	£	11,442	13,375	13,978	15,737	17,740	
Gross value added per head	£	9,694	11,149	11,394	12,914	14,660	
Gross value added as a percentage of gross output	%	44	43	41	41	42	
Ratio of gross output to stocks		3.3	3.2	3.1	3.2	3.5	
Wages and salaries as a percentage of gross value added	%	61	60	63	61	58	
Ratio of operatives to administrative, technical and clerical employees		1.8	1.7	1.7	1.7	1.6	
Wages and salaries per operative	£	5,667	6,309	6,684	7,313	7,944	
Wages and salaries per administrative, technical and clerical employee	£	6,758	7,655	8,282	8,959	9,764	
Net capital expenditure per head	ε	738	807	803	1,002	1,244	
Net capital expenditure as a percentage of gross value added	%	8	7	7	8	9	

Regional distribution of employment,net capital expenditure,net output and gross value added at factor cost,1985 All United Kingdom establishments classified to the industry

Area	Total employme (a)	ent -	Net capital expenditure (b)		Net outpu (c)	n 3 2243	Gross valuadded at factor cost (c)	(s)ener
	(1962)							
F8640 8:X0X,F	Thousand	per cent of United	£ million	per cent of United	f million	per cent of United	f million	per cent of United
		Kingdom		Kingdom		Kingdom		Kingdom
Standard regions of England								
North	14.8	6.8	18.4	6.8	249.7	6.5	197.6	6.2
Yorkshire and Humberside	19.5	9.0	27.6	10.2	323.8	8.4	266.0	8.4
East Midlands	16.8	7.7	19.2	7.1	325.0	8.4	274.2	8.6
East Anglia	12.7	5.8	18.2	6.8	235.2	6.1	204.7	6.4
South East	59.2	27.3	76.2	28.2	1,109.1	28.8	907.3	28.5
South West	18.7	8.6	18.6	6.9	316.0	8.2	264.6	8.3
West Midlands	29.4	13.6	28.7	10.6	483.0	12.5	397.6	12.5
North West	23.4	10.8	29.9	11.1	402.7	10.5	328.2	10.3
England	194.6	89.7	236.8	87.7	3,444.4	89.5	2,840.3	89.3
Wales	•						890*139	e barate <b>y</b> br
Scotland	0.5629	٠	6.50 6.50			***	•	*
Great Britain	214.5	98.8	265.7	98.4	3,808.5	98.9	3,145.0	98.9
Northern Ireland	2.5	1.2	4.2	1.6	41.0	1.1	36.1	1.1 1.1
United Kingdom	217.0	100.0	269.9	100.0	3,849.6	100.0	3,181.1	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.

Output and costs, 1985 All United Kingdom establishments classified to each Activity Heading within the industry

	Unit	3281	3283	3284
Enterprises(a)	Number	249	516	936
Establishments		265	540	981
Sales of goods produced	£ million	879.8	792.9	1,207.5
Work done and industrial services rendered	bandi • aritgaa	57.1	25.0	88.3
Capital goods produced for establishments' own use		2.0	0.4	handpad to enough b
Non-industrial services rendered	* 1000 H. 181	11.2	10.5	
Goods merchanted or factored		84.7	120.5	6.6
Total sales and work done	0.856. " F. 8	1,034.8	949.4	86.2 1,389.3
Increase during the year, work in progress and goods on hand for sale	1 801 . 8 8	24.4	-0.2	Anglia
Gross output	*.05/ *.80	1,059.2		2.3
Purchases of materials for use in pro-		1,009.2	949.2	1,391.6
duction, packaging and fuel		500.3	362.8	598.0
Purchases of goods for merchanting or factoring		72.3	79.5	63.2
Increase during the year, stocks of materials, stores and fuel	* 1844 . T. 10.10	15.0	1.0	7.1
Cost of industrial services received		32.4	34.8	
Net output		469.1		36.0
Total employment	Thousand		473.0	701.5
Net output per head	f	27.7	24.5	39.4
Cost of non-industrial services received	0 26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16,964	19,320	17,814
Hire of vehicles, plant and machinery	£ million	6.8	5.7	8.5
Rents of industrial and commercial				
buildings	non bus call charge and	0.8	5.0	11.4
Commercial insurance premiums	eniacion allestera par	5.2	3.7	6.0
Bank charges		0.6	0.7	1.0
Other non-industrial services	vanita ye komo of a penceh	29.8	59.1	96.5
Licensing of motor vehicles	ni de di ci ba <mark>n</mark> non kani ni	0.2	0.2	0.7
Rates, excluding water rates		7.8	7.7	11.8
Gross value added at factor cost	•	417.8	390.9	565.6
Gross value added at factor cost per head	ť	15,111	15,965	14,363

<sup>(</sup>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.

					E BURBUS
3285	3286	3287	320	88	3289
82	377	309	2-	42	5,887
94	444	320	2	55	5,966
275.2	946.1	514.9	506	.6	1,337.4
8.4	38.6	35.1	16	.2	220.9
2 40.4	5-8-8	0.4	0	.6	2.2
•	•	7.3	1	.2	3.2
81.9	63.6	75.6	59	.4	48.9
365.9	1,052.2	633.3	584	.0	1,612.7
1.7	-76.4	2.8	13	.1	9.5
367.5	975.7	636.1	597	.1	1,622.2
112.4	458.3	249.0	236	5.9	610.9
8.9	175.1	8.0			
52.7	41.7	58.6	43	3.7	39.0
2.7	3.5	4.3	34.49	5.8 sumbneiges	asique 154-0.4
5.0	29.5	8.9	15	5.7	56.2
200.2	449.8	323.8	316	3.6	915.6
8.7	21.4	18.1	16	6.5	60.8
23,090	21,034	17,859	19,2	230	15,051
2.7	6.9	n an mutiw embeatly my 5.1		4.1	13.2
2.0	4.4	3.6		2.8	13.2
1.4	3.9	3.1		2.8	10.8
0.3	0.8	0.5	20.00	0.7	1.3
48.8	60.7	40.0	4	6.5	77.5
0.1	0.3	0.3		0.1	0.6
2.8	8.2	5.6		4.6	19.3
142.0	364.6	265.5		5.0	779.8
16,379	17,049	14,643	15,	486	12,818

TABLE 9

Capital expenditure, 1985
All United Kingdom establishments classified to each Activity Heading within the industry

esse	\$8/A/B	3281	3283	3284
		EGC	536 258 ·	\$879
and and buildings			0.03 540	4.3
New building work		2.7	6.3	
Land and existing building	9.808 IS			
Acquisitions		0.4	5.1	4.7
Disposals		2.0	3.1	5.7
Net		1.2	8.2	3.3
Plant and machinery				8918
Acquisitions		34.2	31.3	31.1
Disposals		5.4	1.8	2.3
Net		28.8	29.5	28.9
/ehicles				
Acquisitions		2.0	3.6	10.1
Disposals		0.5	1.7	3.0
Dishosais		3.62	4.16.	7.1
Net		1.6	1.9	
Total net capital expen	diture	31.5	39.7	39.3

TABLE 10

Stocks and work in progress, 1985
All United Kingdom establishments classified to each Activity Heading within the industry

13.2	8.0	3281	3283	3284
		1.6	e.s =	8.0
Oa Increase during year				
Materials, stores and fuel		15.0	1.0	7.1
Work in progress		35.4	-9.5	3.9
Goods on hand for sale		-11.0	9.3	-1.6
Total		39.4	0.8	9.4
870,67	024.81	840,61	dista ve	14,200E,er
10b Value at end of year				
Materials, stores and fuel		124.3	67.0	105.1
Work in progress		221.1	89.8	77.9
Goods on hand for sale		86.9	85.3	63.3
30003 011 110113 101 3010		432.3	242.1	246.4

•			×	٠				
	m	п	1	1	1	0	r	٦
-	ш	ш	۰	۰	и	v	ш	L

3289	3288		3287		3286	3285
					3784	RATE
8.8 pent per head	1.5		0.5	38,767	3.9	2.7
3.1) seq babba autay sao	0.8				ESE . 1 2.4	212.07
to agains 3.0 c as babbs evicy aso	0.4		•		0.7	96
8.9	1.9		0.4		5.5	-5.4
62.8	22.0		14.9		29.4	16.2
5.2 a lagrada non lagrad	0.6		0.7		4.3	0.2
57.6 to 4 coited a best con-	21.4		14.2		25.1	16.0
nes 10.7 a unbrages labora l	2.0	ecr,r	2.4		3.5	1.8
agamente 3.2 annihogra lateral	0.4	8	0.8		1.6	0.5
7.5	1.6		1.6		1.8	1.4
74.0	24.9		16.2		32.4	11.9

## £ million

3285	3286		3287	3288	3289
- <del>1000-000</del>	103700	580,80	160,85		Gross output per head
2.7	885,813.5		4.3	15.8	-0.4 not believ suley agoni?
0.1	-72.5		-1.2	8.6	Gross parties added as a 8.8 8.8 grantage of
1.6	8 -4.0		4.0	4.5	flatio of gross output to 0.6 se
4.4	-73.0		7.1	28.9	Whyes and salaries as 0.0 comage of gross value added
Y_S	3.1	1.1	6.1		Auto or operatives to administratives.
23.4	65.0		52.2	77.4	83.3
22.3	490.6		54.4	59.6	heat capping tenpenghare per head
38.4	54.6		29.8	62.4	spalmagaeg 34.0 sumbriogas lateras laid
84.1	610.2	8	136.4	199.4	243.1

TABLE 11

Operating ratios, 1985

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

and the contract of the contra	A STATE OF THE PARTY AND ADDRESS OF THE PARTY.		Herman Committee Com	EAST-COADSCIONATION (	In the second second section of the second
	Unit	3281	3283	3284	3285
Gross output per head	£	38,305	38,767	35,338	42,397
Net output per head	£	16,964	19,320	17,814	23,090
Gross value added per head	£	15,111	15,965	14,363	16,379
Gross value added as a percentage of gross output	%	39	41	3. V.O 41	39
Ratio of gross output to stocks		2.5	3.9	5.6	4.4
Vages and salaries as a percentage of ross value added	%	57	54	59	50
atio of operatives to administrative, echnical and clerical employees		1.5	1.3	1.5	1.4
Vages and salaries per operative	£	7,781	8,034	7,877	6,757
Vages and salaries per administrative, echnical and clerical employee	£	9,946	9,462	9,672	10,084
let capital expenditure per head	f	1,139	1,621	998	1,378
let capital expenditure as a percentage f gross value added	%	8	10	7	8

PA328

TABLE 11
Operating ratios, 1985

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

	Unit	3286	3287	3288	3289
Gross output per head	£	45,631	35,082	36,261	26,667
Net output per head	£	21,034	17,859	19,230	15,051
Gross value added per head	£	17,049	14,643	15,486	12,818
Gross value added as a percentage of gross output	%	37	42	43	48
Ratio of gross output to stocks		1.6	4.7	3	6.7
Wages and salaries as a percentage of gross value added	%	53	60	57	63
Ratio of operatives to administrative,					
technical and clerical employees		1.3	1.1	1.6	2.7
Wages and salaries per operative	£	8,106	7,971	8,219	8,040
Wages and salaries per administrative,					
technical and clerical employee	£	10,227	9,694	9,807	9,601
Net capital expenditure per head	£	1,517	896	1,511	1,216
Net capital expenditure as a percentage					
of gross value added	%	9	6	2.070 10	10



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