| (1) | STATISTICS <br> READING <br> ROOM | $\frac{42}{H A 251}$ |
| :---: | :---: | :---: |
| (2) | STATISTICS <br> BACK UP | $\frac{42}{H 4251}$ |

## Business Monitor

 Report on thePA256
1990

Census of Production
Specialised chemical products mainly for industrial and agricultural purposes


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the information in this report relates to businesses classified to the Specialised chemical products mainly for industrial and agricultural puposes industry, Group 256 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

## Formulated adhesives and sealants

Manufacture of formulated synthetic resin and natural and synthetic rubber adhesives (ie containing solvents, plasticisers, etc.) Unformulated synthetic resin adhesives are classified to Group 251. Manufacture of gelatine, glue, size, gum, paste, etc., including
Chemical treatment of oils and fats
Chemical treatment of oils and fats Manufacture of primary products of sperm oil (including higher fatty alcohols), stearine and glycerine. Fat spliting and distillation Manufacture of primary products of sperm
Recovery of fat is classified to Group 412 .

Essential oils and flavouring materials
Manufacture of essential oils (other than turpentine). Manufacture of natural and artificial flavourings and perfume concentrates.
Explosives
Manutacture of explosives, detonators, fuses (except shell fuses), percussion caps, flares and signal rockets.
and matches. Manufacture of live ammunition is classified to Group 329 and cellulose nitrate to Group 251.
Miscellaneous chemical products for industrial use
Manufacture of industrial gases, products for the treatment of leather and textiles. tanning agents and other chemical products not elsewhere specified for industrial use including waxes and foundry preparations. Chemicals specially prepared for laboratory use are included.
Formulated pesticides
Manufacture of formulated pesticides, sheep dips, weedkillers and other phytosanitary products.
Adhesive film, cloth and foil
Manufacture of adhesive film of plastics and cellulose, adhesive cloth and adhesive foil (other than for medical or surgical purposes for which see Group 257). Non-adhesive film, cloth and foil, when chemically treated for use as an insulating material, are also included. Adhesives paper is classified to Group 472
For atull description of the 1980 classification see Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Oficee, price £4.25.

In interpreting the data in the tables it is essential to bear
in mind the notes and definitions which commence on page 5 .

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## EXPLANATORY NOTES AND DEFNITIONS

 INTRODUCTION1. These notes give basic information to help with the interpretation of bies in his Industry Report. More general information about the Census is given in a separate Business Mon
of Production, introductory Notes (PA 1001).
2. Since 1980, Censuses have been conducted on the Standard In dustrial Classification Revised 1980 (SIC C(80)). The Standard Industria Classification exists io promote uniformity and comparability in th
official statistics of the United Kingdom. The SIC(80) is the result of an attempt to align the United Kingdom classification with the Genera ndustrial Classificication of Economic Activities within the Europeai Communities (NACE). It is based on activity rather than commoditios
produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable trom Her Majesty's Stationery Office, price $£ 4.25$
REPORTNG UNIT
. From the earliest censuses of production until that for 1986 the reporting unit to the census was the establishment. This was defined as he smallest unit which could provide the full range of data required for a conomic consus. Establishments were asked, where possiof,
. In 1987, for a number of administrative and statistical reason new system of company-based reporting was introduced. Under the new system the reporting unit to the census is, generally, the company,
but there are some exceptions. These anise, for example, for larg mixed activity companies which are asked to make separate returns to he census for each of their production activities on an establishment basis. Throughout this monitor this mixture of reporting units are
feferred to as "businesses". These businesses are no longer asked to exclude non-production activities.
3. In practice, since most businesses, both before and atter the change, reported for the company as a whole, litte difference to the main economic series has resulted from the change.
4. For most businesses, the returned data are appropriate to a single activity heading of $\operatorname{SIC}(80)$ and tall within a single geographical region. Where intormation covers a mixture of activitios, the business is classiled according to the main activity. Where the business operates at a umber of difflerent addresses then, in order io enabie regional data to be compiled, separate intormation on employment and capital expenditure sought tor each address.

## THE REGISTER

. A register of businesses throughout the United Kingdom is held on he CSO computer and provides the basis for CSO inquiries. For each about its eligibility for inclusion in an inquiry, its relationship with other Uusinesses in common ownership, its industrial classification, the na lonality of its parent and location indicators for regional analyses Regional and size analyses of manulacturing units are published
Business Monitor PA1003 - Size analyses of United Kingdom businesses.
8. The Annual Census and other csO inquiries provide a maior source of intormation tor checking the eregister and updating employmen
data. Where businesses do alata. Where businesses do not make returns to these inquiries, estimales of employment are imputed from VAT turnover. For businesses checked by means of register proving torms. For husinestimates are egister making returns to the puarteryor Annual bus inesses on the register making returns to the Quarterly or Annual Sales Inquiries, indus
lifial classilication is reviewed annually and is derived from an analysis of their commodity sales. For other businesses the classification is Eblained either from VAT sources or from the register proving forms. Estimates of employment made by the CSO and the Department of
Employment differ because they are derived from wo separate inquiries and use different procedures and employment definitions.

## coverage

9. The Census covers United Kingdom businesses engaged in industria production, ie mining and quarying, manulacturing, construction, and gas, electricity and water supply industries (DNisions 1 to 5 of
$\mathrm{SIC}(80)$ ). Businesses in the Channe $\mathrm{SIC}(80)$ ). Businesses in the Channel Islands and the Isle of Man are
excluded. excluded.
10. Under the sampling arrangements agreed for the 1990 Census,
torms were despatched to all businesses with 100 or more employed and for most and, for most production industries, samples of 1 in 4 and 1 in 2
respectively being taken for businesses in the 20 to 49 and 50 to 99 employment sizz bands. It was necessary to increase the sample in those industries where there were few businesses in the sample size band or where response in earlier years was poor. About 16,
were despatched in the United Kingdom for the 1990 Census.

## PERIODCOVERED

11. Businesses were asked to make returns for the calendar year 1990 but, where this was not possible, returns tor business years ending
between 6 April 1990 and 5 Aprii 1991 were accepted. Returns covering fewer than twelve months were accepted for businesses which had
started orceased trading during the year.
estimation
12. All published Census resulls include estimates for non-responders,
Unsatistactory returns and businesses not selected for the Census. unsatistactory returns and businesses not selected for the Census. Estimates are also made for items not covered in the shorter form sent to smalier businesses.
13. Within employment size groups in each industry, the "average per
head" is calculated tor each census variable by dividing the total returns head" is calculated for each census variable by dividing the total returns value for each variable by the total returned employment. This value is
multiplied by the employment thought to exist in each non-responding or mutipipeed by hee employment thought to exis tin each non-responding or non-selected business to yield an estimaled value lor that business. Es-
timates for items not collocted on the shorter form are made in a similar
way using retumed employment.
14. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on the level of response. The extent to which businesses making satisfactory returns account for the to table 1. Thus the accuracy of the data published in an Industry Report where 95 per cent of the employment in the industry is covered by the returns made will, in general, be better than that in an Industry Report
where the coverage is only 70 percent.
15. Additionally, the extent to which individual headings in an Industry Report are related to employment should be taken into account in assessing the accuracy of estimated data. Thus an estimate of total be more ccurate than an estimate of capital expenditure where the relationship to employment is not so clearly marked.
SUPPRESSION OFINFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS
16. Sub-sectio
17. 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, under the toregoing provisions of this Act-
in compling any such report, summary or communication the competent authonity shall so arrange it as to prevent any particulars published therein from being identififed as being particulars relating to any
individual person or undertaking except with the previous consent in writing of that person or the person carrying onthat 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 shall have regard to any shall have regard 10 any representations made to them by any
person who alleges that the disclosure thercof would enable particulars relating to him or to a a undertaking carried on by him to be deducted from
the totald disclosed."
18. Figures which would be likely to disclose particulars selating to an individual undertaking are not published unless the contributor has give CHANGES MADE FOR 1990
19. The 1990 Census reverted to a 'slimline' lormat with fewer busi nesses being required to complete torms than in 1989. The question tions costs were dropped but additional questions were included on capital and current costs associated with pollution abatemeni.
sYmbols USED
20. The following symbols are used throughout the PA series of

> .. not avaiable - nil orless than halt the final digit shown infrotion suppressed to avoid disclos R revised

ROUNDING OF FGURES
20. Figures in the tables have been rounded to the nearest final digit 20. Figures in the tables have been rounded to the nearest tinal 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 USEDINTHE CENSUS REPORT 21. 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 instructions give
be completed.

CAPITALEXPENDITURE
22. This represents the value charged to capilal account together with any other amounts which ranked as capilal items for taxation purpose during the year to which each return related. From 1988 contribut finance leasing arrangements. The value is inclusive of any amounts received or expected to be received in grants andor allowancess from government sources, statutory bodies or local authoritios. Capia expenditure during the year in respect of production units where prodich
tion had not started before the end of the year and the value of CAPITAL GOODS PRODUCED FOR USE WITHIN THE BUSINESS by its Own staff are induded. The value of any assets acquired in laking over an existing business is exduded. The figures include non-deductible VAT
but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsoliescence.
a. OnLANDANDEXISTINGBUILDINGS
23. This represents the value of freeholds and the value or premium payableor receivable for leaseholds acquirred or disposed of. The tigures for acquisitions include architect's' and surveyors' tees, legal fees, stamp duties, agents' commissions and Land Registry fees. The figures tor
b. ONNEWBUILDING WORK 24. This represents the value of new building and other constructional
work such as the extension and reconstruction of old buildings, and the work such as he exiension and revonstruction of old buy newly constructed buildings acquired. The figures include architects' and surveyors' lees, legal lees, stamp duties, agents' commissions and Land Registry fees

> c. on PLANT AND MACHINERY, VEHICLES
25. This represents the value of new and second-hand plant and machinery and vehicles accquired or disposed ol. The figures lor 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.

APITAL GOODS PRODUCED FOR USEWITHINTHE BUSINESS 6. This represents the value of all work of a capital nature carried o during the year by the statt of, and for use in, the businesses covered by

COST OF INDUSTRIAL SERVICES RECEIVED
27. This includes amounts payable to other organisations for workdon nd materials supplied by the business completing the return, for repair contracts which have been sublet. Direct payments to outworkers and
amounts charged to capital account are excluded.
COST OFNON-INDUSTRIAL SERVICES RECEVED 28. Up to 1987 contributors were asked to include annual payments tor assets acquired on a tinance leasing basis. From 1988 they were asked year in which they were acquired. The cost of non-industrial senvices received includes commercial insurance premiums, bank charges and amounts payable to other organisations tor the hire of vehicles, plant and machinery, tor the rent of industrial and commercial buildings, for the envices of accountants, auditiors, agents, solicitors and surveyors other
han in connection with the acquisition or disposal of capital assets, tor postal and telecommunications senvices, tor carriage by all forms of ransport within the United King dom, for acvertising, market research elc. nd quarrying rights and lechnical know-how torerest paymots and and quaryying nights and lachnical know-how. Inierest payments and amounts payable lor see and air trieigh
materias and tuel imported are excluced.
EmpLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 29. This includes employers' national insurance contributions under the Social Security Pensions Act 1975 , commercial insurance premiums tor ickness benefitis, personal accident benefits, disability benefils or deall benefits for employeses, including former employoes, or their depen
dants. Also included are contributions to canteens, social centras hildren's and holiday homes etc. and the cost of supplying luncheo chidren's

## MPLOYMENT

30. This is the average number of ADMINIITRATIVE, TECHNICA AND CLERIC AL EMPLOYEES and OPERATIVES on the payroll an the number of WORKING PROPRIETORS employed during the year return. Full-ume andpart-time employees are included butoutworkers
people who worked in their own homes on materials supplied by the business) and casual employeers such as jobbers are excluded. The average number of employees returned by individual businesses may have been calculated by, for example, the average of the number
a. ADMINISTRATIVE, TECHNICAL AND CLERICAL
31. This includes directors who received a definite wage, salary or commission, managers, toremen, draughtsmen, editorial and acverilisin tatt, travellers, all office employees and research and design employe
b. OPERATIVES
32. This includes all manual wage earners including operatives in power stations, operatives engaged in outside work of erecting, fititing elc, inspectors, maintenance workers and cleaners. Statf engaged in trans port (inclu ding roundsmen)
c. WORKING PROPRIETORS
33. These are people who are regarded as sell-employed for nationa insurance purposes, members of their families who worked in the
normal working hours and directors who worked in the business but did not receive a definite wage, salary or commission. Par-time Directors paid by lee only and directors who received a definite wage, salary or

## ENTERPRISE

34. This is defin
ship or control.

## gross output

35. This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes during the year of WORK IN PROGRESS bfor sale.

GROSS VALUE ADDED AT FACTOR COST
36. This is calculaled 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 addod approaches more closely than NET OUTPUT
ouputorvalue added in national accounts statistics.
GROSS VALUE ADDED AT FACTOR COST PER HEAD
37. This is calculated by dividing GROSS VALUE ADDED AT FACTOR tal EMPLOMMENT.

## NET CAPITAL EXPENDITURE

38. This is calculated by adding to the value of NEW BUILDING WORK acquisitions less disposals of LAND AND EXISTING BUILDINGS,

NET OUTPUT
39. This is calculaled by deducting from Gross Output the cost ot PURCHASES OF MATERIALL FRR USE IN PRODUCTION AND
PACKAGING AND FUEL ANd PURCHASES OF PACKAGING AND FUEL and PURCHASES OF GOODS FOR MER-
CHANTING OR FACTORING, the COSTOF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS

NET OUTPUT PERHEA
40. This is calculated by dividing NET OUTPUT by total EMPLOY

NON-INDUSTRIAL SERVICES RENDERE
41. This includes amounts charged for the hire of vehicles, plant and machinery, tor the rent of industrial and commercial buildings, tor the
right to use patents, rrade marks, copyrights elc. for manufacturing and quarrying rights, for lechnical know-how and for the provision of transport to other organisations. It also includes revenue from staft
operating ratios
42. These ratios are calculated using industy totals, is including the
estimates for businesses not responding to or not selected for the estimates for businesses not responding to or not selected for the
Census. Respondents are able to compare the ratios for their own Census. Respondents are able to compare
businesses with those for the industry as a whole
PURCHASES OF MATERIALS FOR USE IN PRODUCTION, AND PACKAGING AND FUEL PURCHASES OF GOODS FOR MER43. These include the cost
lactured gooods and workshop materials, replacement parts and consul able tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials
ofall types used by the business or given out to o thers, for the production olall types used by the business or given out too others, for the production
of machinery or other capital tiems used in the business, and materials used when working on goods supplied by customers. The figures oxclude VAT, purchases of machinery and plant, which are induded in
CAPITAL EXPENDITURE CAPITAL EXPENDITURE, and amounts payable to transport firms or
credited to the business's own transport departments for delivery of creadited to the business's own transport departments for delivery of
materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials
acks, rebates etc. Imported goods are included at their full delivered cost. If the tansport from docks or aiport of imported goods is not clyd, if applicable oost ogoods purchased, the cost is entered al ar plus usiness not covered by the retum are included at the estimated selling value recorded by the other departments.

REMUNERATION PAID TO OUTWORKERS
4. This represents amounts paid to outworkers, ie people who do pear on the payroll. Amounts paid to outworkers b, whose names are induded in the COST OF INDUSTRIAL SERVICES RECEIVED. stimates are not made for remuneration of outworkers lor businesses

ALES OF GOODS PRODUCED
45. This represensts sales of ofoods during the year, whether or not they ere produced in the year of the return. It also includes sales of goods waste products and residues. The value of sater is the 'net sellies value', ie the amount charged to customers whethervalues 'ex-works' or 'delivered' less VAT, trade discounts, agents' commissions otc and aluwances on returned goods. Where products attract Excise duty, the value includes duty if the goods are sold 'duty-paid', but excludes it if
they are sold in bond or exported. The cost of packaging materials less allowances for returnable containers is included. Sales of fixed assets dexceptional recaipts are excludded. Transters of goods producedby business 10 departments not covered by the return (including other as if sold to an independent purchaser.
stocks
6. This represents the value of goods on hand for sale, including goods for merchanting of factoring and of materials, storos and fuel held by businesses, whether held in the United

WAGES AND SALARIES
47. This reprresents amounts paid during the year to ADMINISTRA-
TTVE, TECHNIIAL AND CLERICAL EMPLOYEES and to OPRRA-
TIVES All TIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed for this
pupose trom govemment sources, are included. Nodeduction is made lor income tax or employeess' national insurance contributions etc. Payents to WORKING PROPRIETORS, paymments in kind, travelling xpenses, Iodging allowancess etc. and EMPLOYERS' NATIONAL IN-
SURANCE CONTRIBUTIONS ETC. are excluded.

WORK DONE AND INDUSTRIAL SERVICES RENDERED
4. This includes amounts charged for work carried out including thal one by sub-contractors on customers' materials and amounts charged
or materials supplied in the course of such work. Industrial services such as repairs and maintenance, installation work and technical osearch and studies rendered to other organisations is also included. For certain industries this heading covers a wide variety of activities, for up of garments, fur dressing and textile finishing in the textile industries, and preparatory work on typesetting, block making and binding in the rinting and publishing industries. Work done is an important part of the andincludes erection, installation and repair and jobbing work.

## WORK IN PROGRES

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

TABLE 1
Output and costs. 1986-1990
All United Kingdom

|  | Unit | 1986 | 1987 | 1988 | 1989 | 1990 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 845 | 854 | 860 | 853 | 795 |
| Businesses | " | 947 | 937 | 937 | 930 | 859 |
| Sales of goods produced | £ million | 3,094. 2 | 4, 233.9(b) | 3,545.7 | 3,868.7 | 4,107. 1 |
| Work done and industria services rendered | ${ }^{*}$ | 30.8 | 60.0 | 58.8 | 58.2 | 62.3 |
| Capital goods produced for use within the business | " | 8.7 | 11.2 | 11.1 | 8.4 | 9.9 |
| Non-industrial services rendered | " | 113.0 | 122. 5 | 127. 5 | 136.0 | 155.4 |
| Goods merchanted or factored | " | 1,074.0 | (b) | 1,014.4 | 1,140.1 | 1,142.2 |
| Total sales and work done | " | 4,320.8 | 4,427.6 | 4,757. 6 | 5, 211.3 | 5, 477.0 |
| Increase during the year, work in progress and goods on hand for sale | " | -3. 0 | 39. 6 | 55.4 | 83.8 | 8.5 |
| Gross output | " | 4,317.7 | 4,467. 2 | 4.812.9 | 5. 295.1 | 5. 485.5 |
| Purchases of materials for use in production, packaging and fuel | " | 1,652.5 | 1,701. 5 | 1,818.9 | 1,973. 5 | 2,081.7 |
| Purchases of goods for merchanting or factoring | " | 796.7 | 563. 8 | 690.5 | 776.0 | 793.5 |
| Increase during the year, stocks of materials, stores and fuel | " | -2. 0 | 8.2 | 35.7 | 13.1 | 2.5 |
| Cost of industrial services received | " | 68.9 | 81.9 | 97.2 | 103.4 | 113.6 |
| Excise payments etc.(net) | " | 9.1 | 9. 1 | 13.1 | 11.0 | 11.7 |
| Net output | " | 1,788.6 | 2,119. 2 | 2,229.0 | 2,444. 3 | 2,487.5 |
| Total employment | Thousand | 46.6 | 48.0 | 47.4 | 48.3 | 47.0 |
| Net output per head | £ | 38,410 | 44, 130 | 47,041 | 50,648 | 52,941 |
| Cost of non-industrial services received |  |  |  |  |  |  |
| Hire of vehicles, plant and machinery | £ million | 16. 6 | 19.9 | 24.4 | 27.0 | 29.6 |
| Rents of industrial and commercial buildings | " | 9. 9 | 14.3 | 14.6 | 16. 5 | 18.4 |
| Commercial insurance premiums | " | 18.1 | 21.9 | 24.8 | 25.1 | 25.3 |
| Bank charges | " | 2.7 | 2.8 | 2.6 | 2.9 | 3.7 |
| Other non-industrial services | " | 227.9 | 302. 6 | 263.0 | 321. 9 | 361.5 |
| Licensing of motor vehicles | $\cdots$ | 2.1 | 2.3 | 2. 4 | 2.4 | 2.8 |
| Rates, excluding water rates | " | 24.0 | 26.9 | 31.8 | 31.3 | 32.3 |
| Gross value added at factor cost | " | 1,487.4 | 1,728.4 | 1,865. 3 | 2, 017.2 | 2, 014.1 |
| Gross value added at factor cost per head | £ | 31,941 | 35,993 | 39,366 | 41,797 | 42,864 |

(a) Satisfactory returns accounted for 84 per cent of employment within the industry in 1990.
(b) Goods merchanted or factored included in sales of goods produced.

TABLE 2
Capital expenditure, 1986-1990 (a)
Capital expenditure, 1986 -1990 (a)
All United Kingdom businesses classified to the industry

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements. The total value of these assets is estimated to be $£ 5.1$ million for 1990 .

TABLE 3
Stocks and work in progress, 1986-1990
Stocks and work in progress, 1986-1990
All United Kingdom businesses classified to the industry

|  |  |  |  |  | £ million |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1986 | 1987 | 1988 | 1989 | 1990 | Value at end of 1990 |
| Increase during year |  |  |  |  |  |  |
| Materials,stores and fuel | -200 | 8.2 | 35.7 | 13.1 | 2.5 | 283. 9 |
| Work in progress | 0.4 | 24.6 | 16.7 | 24.9 | 8.7 | 143.7 |
| Goods on hand for sale | -3. 5 | 15.0 | 38.7 | 58.9 | -0.1 | 408.8 |
| Total | $-5.1$ | 47.8 | 91.1 | 96.8 | 11.0 | 836.4 |

Employment, labour costs, output, net capital expenditure and stocks
and work in progress by size of total employment, 1990
All United Kingdom businesses classified to the industry (a)

| $\begin{aligned} & \overline{\text { Size }} \\ & \text { group } \end{aligned}$ | $\begin{aligned} & \text { Busin- } \\ & \text { esses } \end{aligned}$ | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (b) } \end{aligned}$ | Employment |  |  | Wages and salaries (c) |  |  |  | Total sales and work done |  | Net output |  | Gross value added at factor cost |  | Net capital expenditure (d) | Total stocks and work in progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total including working proprietors | Operatives | Administr-ative,technical and clerical | Operatives |  | Administrative, technical and clerical |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  | Total | per head | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
|  | $\overline{\text { Number }}$ | $\overline{\text { Number }}$ | Thousand | Thousand | Thousand | £ million | £ | £ million | £ | £ million | £ million | £ million | £ | £ million | £ | £ million | £ million |
| 1-9 | 508 | 505 | 1.5) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10-19 | 91 | 88 | 1.3) | 5. 0 | 5. 2 | 57.8 | 11, 534 | 85. 2 | 16.468 | 897. 0 | 898.1 | 374.5 | 36,298 |  |  |  |  |
| 20-49 | 101 | 99 | 3.2) |  |  |  |  |  |  | 897.0 | 6.088 .1 | 374.5 | 36, 298 | (e) | (e) | 40.8 | 125.8 |
| 50-99 | 61 | 59 | 4.3) |  |  |  |  |  |  |  | 8 |  |  |  |  |  |  |
| 100-199 | 51 | 45 | 7.1 | 3. 6 | 3. 5 | 47.8 | 13,414 | 59.0 | 16.684 | 1,300. 2 | 1,308. 0 | 427.1 | 60, 140 | 617. 8(e) | 35, 506(e) | 62.3 | 158.6 |
| 200-299 | 12 | 12 | 3. 0 | 1. 4 | 1.6 | 19.2 | 13, 551 | 27. 0 | 17. 150 | 334.8 | 335. 9 | 139.2 | 46, 486 | 102.5 | 34, 236 | 16.8 | 50.3 |
| 300-399 | 11 | 11 | 3.8 | 1.7 | 2.1 | 22.1 | 12,698 | 38.5 | 18,637 | 406.5 | 408.4 | 182.2 | 47,907 | 130.4 | 34, 268 | 21.8 | 46. 9 |
| 400-499 | 10 | 9 | 4.6 | 2.8 | 1. 7 | 33.6 | 11,814 | 32.3 | 18,526 | 837.0 | 839.2 | 445.6 | 97, 153 | 413.0 | 90, 033 | 28.7 | 161.8 |
| 500-749 | 5 | 5 | 3.0 | 1. 5 | 1. 5 | 19.5 | 13, 205 | 28.9 | 18,921 | 300.6 | 297.6 | 143.6 | 47, 831 | 104. 7 | 34, 871 | 19.5 | 35.3 |
| 750-1,499 | 4 | 4 | 4.5 | 2.7 | 1.8 | 38.3 | 14,348 | 30.6 | 17, 178 | 326.6 | 328.9 | 135. 9 | 30,527 | 101.1 | 22,701 | 17.7 | 62.7 |
| 1,500-Plus | 5 | 5 | 10.7 | 4. 7 | 6. 0 | 75.6 | 16, 100 | 110.2 | 18,271 | 1,074.3 | 1,069.4 | 639.2 | 59,597 | 544.6 | 50, 772 | 86.5 | 195.1 |


| Total | 859 | 795 | 47.0 | 23.4 | 23.4 | 313.9 | 13,404 | 411.7 | 17,569 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(a) Businesses employing fewer than 20 persons are not required to complete census returns. Because of this, data for these businesses should be regarded merely as the best estimates available and used with caution.
(b) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning
the businesses shown in each size group. Because an enterprise may own businesses in more than one size group, the sum of individual enterprise counts may exceed the total for the industry.
(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running
(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the
costs of canteens are excluded from the table but were estimated for the industry at $£ 110.3$ million.
(d) Net capital expenditure includes the value of assets acquired under finance leasing arrangements - see Table 2.
(e) Gross value added data relate to businesses employing 1-199.

Percentage analysis of twelve-month periods covered by returns received for the 1990 Censu

| Accounting year ended | Percentage of total returns <br> received | Percentage of total <br> employment |  |
| :--- | :--- | :---: | :---: |
| 1990 | April 6-30 | 1.2 | 0.3 |
|  | May | 1.2 | 0.2 |
|  | June | 1.9 | 1.0 |
|  | July | 2.5 | 1.3 |
|  | August | 0.6 | 1.1 |
|  | September | 14.3 | 23.5 |
|  | October | 2.5 | 1.6 |
|  | November | 3.7 | 1.7 |
|  | December | 57.8 | 59.3 |
| 1991 |  | 1.9 | 0.6 |
|  | January | 0.6 | 0.3 |
|  | February | 11.8 | 9.0 |

table 6
Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1990
All United Kingdom businesses classified to the industry

| Area | A | Total employment <br> (a) |  | Net capital expenditure <br> (b) |  | Net output <br> (c) |  | Gross value added at factor cost <br> (c) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Thousand | per cent <br> of <br> United <br> Kingdom | $\begin{aligned} & \text { million } \end{aligned}$ | $\begin{aligned} & \text { per cent } \\ & \text { of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ | $\underset{\text { million }}{f}$ | $\begin{aligned} & \text { per cent } \\ & \text { of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ | $\stackrel{\mathrm{f}}{\text { million }}$ | $\begin{aligned} & \text { per cent } \\ & \text { of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ |
| Standard regions of England |  |  |  |  |  |  |  |  |  |
| North | 8.0 | 1.5 | 3. 3 | 10.9 | 3. 7 | 70.0 | 2. 8 | 55.4 | 2.8 |
| Yorkshire and Humberside | 1. | 5. 4 | 11.5 | 39. 2 | 13.3 | 233. 2 | 9. 4 | 195.3 | 9. 7 |
| East Midlands |  | 3.6 | 7.7 | 20.6 | 7.0 | 144.4 | 5. 8 | 103.3 | 5.1 |
| East Anglia |  | 1.9 | 4. 0 | 30.6 | 10.4 | 183. 9 | 7.4 | 144.3 | 7.2 |
| South East | . 0 r | 12.3 | 26.3 | 57.6 | 19.6 | 778.2 | 31.3 | 649.5 | 32.2 |
| South West | 1, is | 2.9 | 6. 2 | 10.5 | 3.6 | 79.2 | 3.2 | 55.7 | 2.8 |
| West Midlands |  | 2.8 | 5. 9 | 13.1 | 4. 4 | 104. 2 | 4. 2 | 71.6 | 3.6 |
| North West |  | 11. 1 | 23.6 | 64.3 | 21.9 | 593.2 | 23.8 | 477.0 | 23.7 |
| England |  | 41.6 | 88.5 | 246.8 | 83.9 | 2, 186. 3 | 87.9 | 1,752.0 | 87.0 |
| Wales | - | 2.6 | 5. 5 | 33.1 | 11.2 | 187.6 | 7.5 | 167.0 | 8.3 |
| Scotland | 0 | 2.3 | 4.9 | 12.7 | 4.3 | 98.7 | 4. 0 | 83.0 | 4.1 |
| Great Britain |  | 46.5 | 99.0 | 292.5 | 99.5 | 2, 472.6 | 99.4 | 2,002.0 | 99.4 |
| Northern Ireland |  | 0.5 | 1. 0 | 1.5 | 0.5 | 15.0 | 0.6 | 12.0 | 0.6 |
| United Kingdom |  | 47.0 | 100.0 | 294.1 | 100.0 | 2,487. 5 | 100.0 | 2,014.1 | 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. The value also includes assets acquired under finance leasing arrangements - see Table 2.
(c) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to 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, 1990

|  | Unit | 2562 | 2563 | 2564 | 2565 | 2567 | 2568 | 2569 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises(a) | Number | 183 | 14 | 58 | 28 | 369 | 68 | 98 |
| Businesses | " | 189 | 14 | 59 | 29 | 400 | 69 | 99 |
| Sales of goods produced | £ million | 505. 2 | 65. 9 | 277.9 | 142.4 | 2,255. 5 | 704.7 | 155. 6 |
| Work done and industrial services rendered | " | * | - | - | * | 46.0 | 2.5 | 0.4 |
| Capital goods produced for use within the business | " | * | 0.5 | 0.3 | * | 8.6 | 0.2 | 0.3 |
| Non-industrial services rendered | " | 2.6 | 0.6 | 0.4 | 0.1 | 137.5 | 14.2 | - |
| Goods merchanted or factored | " | 94.1 | 4. 1 | 50.0 | 31.3 | 351.5 | 605.8 | 5.4 |
| Total sales and work done | " | 604.5 | 71.1 | 328.6 | 184.8 | 2,799.0 | 1,327.4 | 161.7 |
| Increase during the year, work in progress and goods on hand for sale | " | -0. 8 | -1. 1 | 0.5 | 3.3 | 8.7 | -2. 1 | - |
| Gross output | $\cdots$ | 603.7 | 70.0 | 329.0 | 188.1 | 2,807. 7 | 1,325. 3 | 161.7 |
| Purchases of materials for use in production, packaging and fuel | " | 262.1 | 41.5 | 155.4 | 56.9 | 1,148. 2 | 331.6 | 85. 9 |
| Purchases of goods for merchanting or factoring | " | 59.7 | 4. 6 | 40.2 | 14. 2 | 268. 9 | 400.8 | 5.1 |
| Increase during the year, stocks of materials, stores and fuel | " | -2. 3 | -0.7 | -0. 8 | -1. 5 | -2. 4 | 10.7 | -0. 5 |
| Cost of industrial services received | " | 11.0 | 1. 2 | 6.4 | 7.1 | 68.5 | 16.6 | 2.8 |
| Excise payments etc.(net) | " | - | - | 1.2 | 9.3 | 1. 5 | - | - |
| Net output | " | 268.5 | 21.9 | 125.0 | 99.0 | 1,318.6 | 587.0 | 67.5 |
| Total employment | Thousand | 7.2 | 0.4 | 3.1 | 3.3 | 25.1 | 5.4 | 2.3 |
| Net output per head | £ | 37,055 | 50,154 | 39,708 | 29,829 | 52,450 | 108, 455 | 29,546 |
| Cost of non-industrial services received |  |  |  |  |  |  |  |  |
| Hire of vehicles, plant and machinery | £ million | 4. 5 | 0.1 | 2.4 | 1.1 | 17.8 | 2.8 | 0.8 |
| Rents of industrial and commercial buildings | " | 4. 6 | - | 0.5 | 1.5 | 8.5 | 3.2 | 0.2 |
| Commercial insurance premiums | " | 3. 8 | 0.2 | 1.4 | 2.7 | 13.8 | 2.9 | 0.5 |
| Bank charges | " | 0.5 | - | 0.4 | 0.1 | 2.2 | 0.3 | 0.1 |
| Other non-industrial services | " | 59.3 | 6.2 | 28.2 | 12.5 | 183.1 | 63.0 | 9. 2 |
| Licensing of motor vehicles | " | 0.3 | - | 0.1 | - | 2.0 | 0.4 | - |
| Rates, excluding water rates | " | 4. 9 | 0.4 | 2.3 | 1.9 | 18.0 | 3. 3 | 1.4 |
| Gross value added at factor cost | " | 190.7 | 15. 1 | 89.8 | 79.1 | 1,073.2 | 511.0 | 55.2 |
| Gross value added at factor cost per head | £ | 26,317 | 34,475 | 28,507 | 23,834 | 42,689 | 94, 422 | 24, 164 |

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

Capital expenditure, 1990 (a)
All United Kingto
All United Kingdom businesses classified to each Activity Heading within the industry


Operating ratios, 1990
All United Kingdom businesses classified to each Activity Heading with in the industry

|  | Unit | 2562 | 2563 | 2564 | 2565 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gross output per head | £ | 83,311 | 160, 194 | 104,488 | 56, 689 |
| Net output per head | £ | 37, 055 | 50, 154 | 39, 708 | 29,829 |
| Gross value added per head | £ | 26,317 | 34,475 | 28,507 | 23, 834 |
| Gross value added as a percentage of gross output | \% | 32 | 22 | 27 | 42 |
| Ratio of gross output to stocks |  | 7.9 | 11.7 | 6. 0 | 5.9 |
| Wages and salaries as a percentage of gross value added | \% | 55 | 44 | 59 | 57 |
| Ratio of operatives to administrative, technical and clerical employees |  | 1. 2 | 2.8 | 0.6 | 2.3 |
| Wages and salaries per operative | £ | 12,505 | 11, 188 | 14, 556 | 11,734 |
| Wages and salaries per administrative, technical and clerical employee | £ | 16,842 | 27,096 | 18,286 | 17,564 |
| Net capital expenditure per head (a) | £ | 2,575 | 4, 588 | 3. 832 | 1,080 |
| Net capital expenditure as a percentage of gross value added (a) | \% | 10 | 13 | 13 | 5 |

(a) From 1988 contributors were asked to include as capital expenditure the value
of assets acquired under finance leasing arrangements - see Table 2 .

## TABLE 11

Operating ratios, 1990
All United Kingdom establishments classified to each Activity Heading within the industry

|  | Unit | 2567 | 2568 | 2569 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gross output per head | £ | 111, 680 | 244, 873 | 70,808 |  |
| Net output per head | £ | 52,450 | 108, 455 | 29,546 |  |
| Gross value added per head | £ | - 42,689 | 94,422 | 24, 164 | Сวลद |
| Gross value added as a percentage of gross output | \% | 38 | 39 | 34 |  |
| Ratio of gross output to stocks |  | 7.8 | 4. 7 | 6. 2 |  |
| Wages and salaries as a percentage of gross value added | \% | 38 | 17 | 51 |  |
| Ratio of operatives to administrative, technical and clerical employees |  | 0.9 | 0.7 | 1.8 |  |
| Wages and salaries per operative | £ | 14,040 | 14,350 | 11, 257 |  |
| Wages and salaries per administrative, technical and clerical employee | £ | 17,911 | 16,840 | 14, 810 |  |
| Net capital expenditure per head (a) | £ | 7,598 | 10,539 | 4, 242 |  |
| Net capital expenditure as a percentage of gross value added (a) | \% | 18 | 11 | 18 |  |

(a) From 1988 contributors were asked to include as capital expenditure the value of
assets acquired under finance leas ing arrangements. see fable 2.


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