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Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production

Explosives and fireworks



Department of Industry
Business Statistics Office

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PA279.3 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1972

Explosives and fireworks

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

Department of Industry
Business Statistics Office

London: Her Majesty's Stationery Office 1975

Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction Petroleum and natural gas

Cocoa, chocolate and sugar confectionery

Miscellaneous mining and quarrying

Grain milling
Bread and flour confectionery

PA214 Bacon curing, meat and fish products PA215 Milk and milk products

Fruit and vegetable products

Vegetable and animal oils and fats

Coke ovens and manufactured fuel

Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

PA239.1 Spirit distilling and compounding

Lubricating oils and greases

PA239.2 British wines, cider and perry

Mineral oil refining

PA231 Brewing and malting

Soft drinks

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PA271.3 Miscellaneous chemicals

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PA279.2 Formulated adhesives, gelatine, etc. PA279.3 Explosives and fireworks

PA279.6 Surgical bandages, etc. PA279.7 Photographic chemical materials

Iron and steel (general)

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Coal mining

Does not

apply

| PA370 Shipbuilding and marine engine | |
|--------------------------------------|-------|
| | erin |
| PA370 Shipbuilding and marine engine | CIIII |

Wheeled tractor manufacturing

PA 383 Aerospace equipment, manufacturing and repairing

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PA414 Woollen and worsted

PA421

PA422.2 Canvas goods and sacks and other made-up

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Weatherproof outerwear

PA449.2 Gloves

PA462 Pottery

Textile machinery and accessories Construction and earth-moving equipment

PA 336 Mechanical handling equipment

Miscellaneous base metals

PA339.1 Mining machinery PA339.2 Printing, bookbinding and paper goods machinery

PA339.3 Refrigerating machinery, space heating, ventilating and air-conditioning equipment

Aluminium and aluminium alloys

Pumps, valves and compressors

Copper, brass and other copper alloys

Agricultural machinery (except tractors)
Metal-working machine tools

PA339.7 Food and drink processing machinery and packaging and bottling machinery

PA339.9 Miscellaneous (non-electrical) machinery

Scales and weighing machinery and portable power tools

Industrial (including process) plant and steelwork

Process plant engineering contractors

PA342 Ordnance and small arms PA349.1 Ball and roller bearings

PA349.2 Precision chains and other mechanical engineering

PA351 PA352 Photographic and document copying equipment Watches and clocks

Surgical instruments and appliances PA 354

Scientific and industrial instruments and systems PA 361 Flectrical machinery

PA362 Insulated wires and cables

Telegraph and telephone apparatus and equipment

PA 364 Radio and electronic components

PA365 Gramophone records and tape recordings Broadcast receiving and sound reproducing

Electronic computers

Radio, radar and electronic capital goods

Electrical appliances primarily for domestic use

PA 369 Electrical equipment for motor vehicles, cycles and aircraft

Primary and secondary batteries Electric lamps, electric light fittings, wiring

accessories, etc.

PA381 Motor vehicle manfacturing

Trailers, caravans and freight containers

Motor cycle, tricycle and pedal cycle manufacturing

Locomotives, railway track equipment, railway

PA 390 Engineers' small tools and gauges

PA391 Hand tools and implements Cutlery, spoons, forks and plated tableware, etc.

PA 393 Bolts, nuts, screws, rivets, etc. PA 394 Wire and wire manufactures

Cans and metal boxes

PA399.6 Metal hollow-ware PA399.8 Miscellaneous metal manufacture

Spinning and doubling on the cotton and flax systems PA413 Weaving of cotton, linen and man-made fibres

PA416 PA417 Rope, twine and net

Hosiery and other knitted goods Warp knitting

PA418 PA419 Carpets

Narrow fabrics Household textiles and handkerchiefs

textiles Textile finishing

PA429.1 Asbestos PA429.2 Miscellaneous textiles

Leather (tanning and dressing) and fellmongery PA431

PA433

PA441

PA442 Men's and boys' tailored outerwear

PA443 Women's and girls' tailored outerwear Overalls and men's shirts, underwear, etc. Dresses, lingerie, infants' wear, etc. PA444

PA446 Hats, caps and millinery

PA449.1 Corsets and miscellaneous dress industries

PA450 Footwear

PA461.1 Refractory goods PA461.2 Building bricks and non-refractory goods

PA463 Glass PA464 Cement

PA469.1 Abrasives PA469.2 Miscellaneous building materials and mineral

products Timber PA471

Furniture and upholstery PA473 Bedding, etc.

Shop and office fittings PA474 Wooden containers and baskets PA479 Miscellaneous wood and cork manufactures

PA481 Paper and board Cardboard boxes, cartons and fibre-board packing cases

PA482.2 Packaging products of paper and associated materials

Manufactured stationery Wallcovering

PA484.2 Miscellaneous manufactures of paper and board Printing and publishing of newspapers and PA485 periodicals

PA489 General printing, publishing, etc. PA491 Rubber

PA492 Linoleum, plastics floor-covering, leathercloth, etc.

PA493 Brushes and brooms PA494.1 Toys, games and children's carriages

PA494.3 Sports equipment PA495 Miscellaneous stationers' goods PA496 Plastics products

PA499.1 Musical instruments PA499.2 Miscellaneous manufacturing industries

PA601 Flectricity PA 602 Water supply PA1002 Summary tables PA279.3 EXPLOSIVES AND FIREWORKS

The information in this report relates to establishments classified to the Explosives and fireworks industry, inimum list heading 279.3 in the Standard Industrial Classification (revised 1968). The activities of the

Manufacturing explosives, detonators, fuses (not shell fuses), percussion caps, flares, signal rockets, etc. Manufacturing fireworks and matches, and live ammunition. Filling bombs, cartridges, shells, etc. Establishments making live military ammunition which also make the cases for it are excluded, and are classified to minimum list heading 342, reported as part PA342.

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

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Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other

Input and output, 1970, 1971 and 1972

All United Kingdom establishments classified to the industry (a)

| | 1 | | | Marcon Louis Adding |
|-----------------------------------------------------------------------|------------|----------------------------------|----------------|---------------------|
| | Unit | 1970 | 1971 | 1972 |
| Enterprises | Number | 33 | 28 | 25 |
| Establishments | п | 45 | 44 | 39 |
| Sales of goods produced and work done | £'000 | 67,488 | A STATE OF | \ _ |
| Services rendered to other organisations (b) | II | 861 | 74,855 | 3,478 |
| Goods merchanted or factored | . 11 | 1,946 | | 3,423 |
| Canteen takings | II S | 321 | | 112 |
| Total sales and work done | 11 | 70,617 | 74,855 | 77,013 |
| | 97.01 | blessery and only Warp kaming | andres another | |
| Increase during the year, work in progress and goods on hand for sale | II AAA | 1,127 | 4,772 | -52 |
| Gross output | 11 | 71,744 | 79,627 | 76,961 |
| Cost of purchases (c) | II . | 30,657 | 33,681 | 47,521 |
| Increase during the year, stocks of materials, stores and fuel | II TABLE | 836 | 841 | 8,841 |
| Payments to other organisations for work done on materials given out | 11 | 321 | | 60 |
| for transport by road | 11 | 409 | | 278 |
| for transport by rail, water, air and Post Office parcel services | п | 315 | 1,164 | 340 |
| | 52,5 | 1 Refractory proces | , | |
| Total costs | 11. | 30,867 | 34,004 | 39,358 |
| Net output | 11 | 40,877 | 45,624 | 37,603 |
| Cotal employment (including working proprietors) (d) | Thousands | 18.2 | 17.0 | 13.8 |
| Topilotolo, (w) | Thousands | 10.2 | a superior to | mi 10.0 |
| Net output per head | Ter that £ | 2,245 | 2,676 | 2,724 |

Capital expenditure and stocks, 1970, 1971 and 1972

All United Kingdom establishments classified to the industry (a)

£'000

| | | | | | £ 000 |
|----------------------------------------------------------------------------------------------------------------------|-----|----------|--------------|----------------|----------------------|
| Take Thomas Tomas | Het | 1970 | 1971 | 197 | 72 |
| Capital expenditure (b) | | £,000 | £,000 | £°0 | 00 |
| New building work | | 660 | 1,428 | 9 | 74 |
| Land and existing buildings | | 5 74 | lost parties | | |
| Acquisitions Disposals | | 202(c) | -90(c) | -55 | 24(c) |
| Plant and machinery | | J | 2000 | 5 = | |
| Acquisitions | | 3,521 | 5,597 | } | 41 |
| Disposals | | 85 | 275 |) | |
| Vehicles | | | | | |
| Acquisitions | | 377 | 233 | 2 | 48 |
| Disposals | | 82 | 43 | | 81 |
| Total net capital expenditure (c) | | 4,593 | 6,850 | 2,5 | 558 |
| | | | | A Marie Contra | |
| Increase in stocks and work in progress, 1970, 1971 and 1972 and value of stocks and work in progress at end of 1972 | | Increase | Increase | Increase | Value at end of year |
| | | | | | |
| Materials, stores and fuel | | 836 | 841 | 8,841 | 17,401 |
| Work in progress | | 170 | 3,858 | 372 | 4.494 |
| Goods on hand for sale | | 957 | 914 | -424 | 4,278 |
| Total | | 1,963 | 5,613 | 8,789 | 26,173 |
| | | | | 112.2 111. | and the first |

⁽a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

⁽a) For 1972, estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons, accounted for 2 per cent of the total figures in which they were incorporated: of this unsatisfactory returns accounted for 1 per cent.

⁽b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.

⁽c) Including excise duty payable on matches less allowances receivable on matches exported, etc.

⁽d) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.

⁽b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

⁽c) Acquisitions less disposals.

TABLE 3

Analysis of establishments by size, 1972

All United Kingdom establishments classified to the industry (a)

| | Estab- | | | Emplo | yees | Wages and | salaries | Wages and per | salaries head | | - 3 <u>88</u> | | Net | Capital | Total stocks and |
|----------------------|----------------|-------------------------|----------------------------|------------|------------|------------|------------|---------------|-----------------------------------------|----------------------------------------|-----------------|----------------|-----------------------|----------------------------------|---------------------------------|
| Size group (b) | lish- ments | Enter- prises (c) | Total employment (b) | Operatives | Others (d) | Operatives | Others (d) | Operatives | Others (d) | Total sales and work done (e) | Gross output | Ne t output | output per head | expen- diture (net) (f) | work in progress at end of year |
| | Number | Number | Number | Number | Number | £'000 | £'000 | £ | £ | £'000 | £'000 | £,000 | £ | £'000 | £'000 |
| 1- 10 | 7 | 7 | 46 | | | 150 E | | 444.0 | (S) | 193.0 | | | 00013 | TALL . | |
| 11- 24 | 6 | 6 | 98 | 407 | 55 | 283 | 88 | 695 | 1,595 | 1,215 | 1,274 | 861 | 1,787 | 148 | 394 |
| 25 - 99 | 5 | 5 | 338 | | | 07 Day | | ige a | 10 A | 08 THO | | | 8 | 1 | |
| 100-199 | 4 | 3 | 453 | 299 | 154 | 390 | 328 | 1,303 | 2,127 | 1,958 | 1,959 | 1,240 | 2,737 | 270 | 315 |
| 200-299 | 4 | 3 | 968 | 707 | 261 | 781 | 473 | 1,104 | 1,811 | 8,051 | 8,189 | 2,579 | 2,664 | 146 | 1,249 |
| 300-499 | 4 | 3 | 1,516 | 1,063 | 448 | 1,383 | 963 | 1,301 | 2,149 | 8,495 | 8,532 | 4,071 | 2,686 | 150 | 2,007 |
| 500 and over | 9 | 7 | 10,387 | 7,964 | 2,423 | 11,054 | 5,515 | 1,388 | 2,274 | 57,294 | 57,007 | 28,852 | 2,778 | 1,845 | 22,208 |
| Total | 39 | 25 | 13,806 | 10,440 | 3,341 | 13,891 | 7,366 | 1,331 | 2,205 | 77,013 | 76,961 | 37,603 | 2,724 | 2,558 | 26,173 |

- (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than $25~{\rm persons}$.
- (b) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.
- (c) Some enterprises control establishments in more than one size group: the sum of the figures for the size groups will therefore exceed the total for the industry.

- (d) Administrative, technical and clerical employees.
- (e) Including sales of goods merchanted or factored, canteen takings and services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered).
- (f) Acquisitions less disposals.

Regional distribution of employment, net capital expenditure and net output, 1972 $_{
m All\ United\ Kingdom\ establishments\ classified\ to\ the\ industry}$

| Area | tos to s beyoldan | | number ed (a) | Net ca expendi | pital ture (b) | establishme | and employment in nts with more than yment in the regio | 80 per cent of |
|-----------------------------|----------------------|----------------|-------------------------------------|---------------------------|-------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| | | For the angles | | v. Alm gran constant a | | Estimated net output | Average number employed as a percentage of total average number employed in the industry in the region | Net output as percentage of total of the industry in the United Kingdom |
| | 0.0 | Thousands | per cent of United Kingdom | £'000 | per cent of United Kingdom | £,000 | | September September November |
| Standard regions England | of | | | | Y . 14 | | | December |
| North | 0.0 | - | - | - | 0.0 | - | - | violent era |
| Yorkshire and Humberside | 0.0 | * | * | * | * | * | * | February Mar*s(b) |
| East Midlands | 0.001 | 0.9 | 6.8 | 667 | 26.1 | 1,857 | 69.5 | 4.9 |
| East Anglia | | * | * | * | * | * | * | red Securition Apr |
| South East | | 1.8 | 13.1 | * | * | 4,014 | 81.5 | 10.7 |
| South West | | * | * | * | * | * | * | * |
| West Midlands | | - | - | - | - | _ | - | - h H.m. |
| North West | | * 2 | *** | * | * | * | * | * |
| Engl and | | 7.4 | 53.5 | 1,772 | 69.3 | 17,865 | 88.9 | 47.5 |
| Wales | | * | * | * | * | * | * | * |
| Scotland | a ila i | * | * | * | * | 901* 1107 | * | * 202 |
| Great Britain | | 13.8 | 100.0 | 2,558 | 100.0 | 35,261 | 93.0 | 93.8 |
| Northern Ireland | ed | - | 3000 1 | od - | - | Per cent - | | - |
| Unallocated (d) | | 1 | - | - | - | 2,342 | - | 6.2 |
| United Kingdom | | 13.8 | 100.0 | 2,558 | 100.0 | 37,603 | | 100.0 |

- (a) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.
- (b) New building work plus acquisitions less disposals of land and existing buildings, plant and machinery and vehicles.
- Where a census return covered addresses in two or more regions an estimate was made of the net output attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output at each address covered by a return was proportionate to employment at the address. The establishment's residual net output was included in unallocated net output.
- (d) Includes estimates of net output for establishments not making satisfactory returns and establishments employing less than 25 employees, and unallocated net output of establishments covering addresses in two or more regions.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 25 or more persons, 1972

| Accounting year ended | | | Percent | age of total | lreturns | | Percentage of total number employed | | |
|-----------------------|----------------------|----------------------------------|----------------|--------------|----------|-------|-------------------------------------|-------------|--|
| | | ALBERTAN DE STEAM | Market Charles | per cent | | | | per cent | |
| 1050 | April (a) | | | 0.0 | | | | 0.0 | |
| 1972 | May | a So San Trois | | 0.0 | | | | 0.0 | |
| | June | Se lagationies Ophress lelet | | 8.3 | | 10.10 | | 3.8 | |
| | July August | Milketul odi et Boggor gda ni | | 0.0 | | | | 0.0 | |
| | September | | | 4.2 | | | | 1.7 | |
| | October | | | 0.0 | | | inu. | 0.0 | |
| | November December | | | 12.5 41.7 | | | | 3.4 40.1 | |
| | | | | | | | | 0.0 | |
| 1973 | January | | | 0.0 | | | | 0.0 | |
| | February March(b) | | | 0.0 33.3 | | | W. | 51.0 | |
| | 0.8 | a ab | 1,96.1 | 100.0 | 967 | | | 100.0 | |

(a) From 6th April

(b) Including returns made for twelve-month period ended 1st to 5th April 1973

TABLE 6

Percentage analysis of employees, by full and part time employment and sex, 1972 (a) Other Chemical industries, minimum list heading 2790

| Sex | Full time | | Part time | | All employees |
|-------------------------------------------------------------------------------------------------------------|-----------|-------------------------|-----------|-------------------------|---------------|
| 18.00 P 18.00 P | per cent | 0.001 | per cent | 11.8 | per cent |
| 4.0 | | | | | |
| 0.001 | | 0,001 81 | | 2 4 | |
| Male | 63 | | 1 | | 64 |
| Female | 30 | \$ S | 6 | 1 | 36 |
| en Place in the control of the | | al to mean | | opos dele | |
| agree ter edt to erke en ol brew gescolgne eine 8 utd's ol bereces eeste b bulent was touten in is | | es 20 per continue that | | n imion o de satinat | |
| | | | | | |

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 2790 at mid-June, 1972. In the 1972 Census of Production the employment of the "Explosives and fireworks" industry represented 23 per cent of the employment of minimum list heading 2790 as a whole.

 g_{ales} of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1972.

Does not apply

For this industry, the quarterly inquiry into manufacturers' sales did not commence until the second quarter 1973.

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Notes

These notes give the main information needed for interpreting the figures in the industry reports, (more detailed information about the census is given in a separate booklet—"Introductory Notes", Part PA 1001 of the Report on the Census of Production for 1972).

GENERAL INFORMATION

Changes made for 1972

There were only minor changes in the scope of certain industry reports compared with 1971. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

Industrial classification

The Annual Censuses of Production are conducted on the Business Statistics Office's Production Register. Normally establishments on the Register are classified to industries on the basis of major activity in conformity with the Standard Industrial Classification (revised 1968). Generally an establishment is classified to an industry if its sales of the principal products of that industry accounts for a greater proportion of its total sales than its sales of the principal products of any other industry; classification is generally based on an establishment's returns to the quarterly production inquiry. Where this is not possible—for example where a quarterly production inquiry has not been introduced—the classification of an establishment reflects its return to the Census of Production, 1968. Establishments for which information is not available either from the quarterly inquiries or the 1968 Census are classified on the basis of the description of the business given by the establishments to the Business Statistics Office, for instance, in the course of registration.

Coverage

Detailed census returns were generally sought only from establishments employing on average 25 or more persons, but in some industries where firms employing less than 25 persons account for a relatively high proportion of total employment and output the exemption limit was lowered to 11. Census returns were also sent to establishments whose employment was not known to the Business Statistics Office at the time of dispatch.

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the number of persons on the payroll (i.e. whose national insurance cards were held by them) on the average during the year of return, whether full-time or part time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) all other employees (operatives). Averages could be calculated from figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Outworkers (i.e. persons employed by establishments who worked in their own homes etc. on materials supplied by the establishments) are excluded.

The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working Proprietors

These include all persons regarded as "self employed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading: directors paid by fee only are not included.

Employees

Administrative, technical and clerical employees include managing and other directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research, experimental development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, breadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included, but out-workers are excluded.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included in the figures for both 1970, 1971 and 1972. Establishments were asked to include in the value of capital expenditure, amounts received under the Local Employment Acts, 1960 to 1971 and any investment grants received under the Industrial Development Act, 1966 or regional development grants under the Industry Act, 1972.

(a) New building wor

This represents the cost incurred during the year of new building and other constructional work (including office buildings, canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension of reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include any legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost of premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during year. The value of plant and machinery acquired includes plant, etc., which firms produced for their own use in connection with the business covered by the return. The value of plant, etc., acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Enterprise

The term enterprise is used in this report to mean one or more establishments under common ownership or control (as defined in the Companies Act 1948) making returns to the census. An enterprise may consist of a single establishment, or of more than one establishment owned by one legal unit, usually a company, or of a number of establishments owned by a parent company and subsidiary company or companies. Information about the relationship between constituent companies of enterprises was obtained mainly from published sources such as the Stock Exchange Year Book supplemented by information from company reports and information supplied by establishments. The information available is not complete but covers the largest and most important groups of industrial establishments and is believed sufficient to provide a worthwhile basis for analysis.

Establishment

The definition of an establishment in 1970, 1971 and 1972 was that of the Standard Industrial Classification (revised 1968): "the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation". Sometimes activities which are conducted as a single business are carried on at a number of addresses, termed local units. Where the activities of such a business are closely integrated, and detailed census information is not available for each unit, it is treated as a multi-unit establishment and a single return accepted. Separate figures are obtained, however, of employment and net capital expenditure at each unit.

Gross output

Gross output measures the total value of production (including work done) by establishments during the year. It is calculated as follows:-

Value of sales and work done

Plus/Less: Increase/decrease in value of stocks of goods on hand for sale

Plus/Less: Increase/decrease in value of work in progress

Gross output.

Net output

Net output represents the value added to materials by the process of production (including the margin on selling any merchanted or factored goods). It is calculated as follows:-

Gross output

Less: Purchases adjusted for change in value of stocks of fuel and raw materials

Less: Payments for work given to other establishments

Less: Payments for transport

Less: Net amount of any duties, subsidies, allowances and levies payable

= Net output.

Net output per person employed

The figures of net output per person employed are derived by dividing the net output by the average number of persons employed (full time and part time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials including the cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to establishment's own buildings, plants and vehicles when carried out by their own work people included in the returns; of consumable tools; and of parts for machninery purchased during the year as replacements. Water charges are also included. In general, purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded, as are all purchases charged to capital account.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced: amounts paid to transport organisations, including an establishment's own separate transport organisations for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at the c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivery cost if invoiced "carriage paid home". Materials and fuel transferred from another department of the establishment not covered by the same return are included at the estimated selling value recorded by the other department.

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other establishments from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the establishment's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchanted or factored) and canteen takings are included.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis excluding any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value

Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same

To the extent that sales of finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication. In some industries, e.g. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates for a number of industries contain significant amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other services rendered to other organisations. It includes amounts credited for similar services rendered to other establishments of the same enterprise not covered by the return.

Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (revised 1968). It is published by HM Stationery Office together with a separate index in the form of an alphabetical list of industries.

Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during the year are also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

Transport payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payment to other establishments, and to any separate transport organisation of the same establishment not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and salaries

These are amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to national insurances and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other establishments (whether part of the same enterprise or not) on materials supplied to them. They do not include payments to individual outworkers or payments for business and other services.

SYMBOLS USED

The following symbols are used throughout the report:

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

R revised

ROUNDING OF FIGURES

Figures in the tables have, where necessary, been rounded to the nearest final digit; there may be an apparent slight discrepancy between the sum of the constituent items and the total shown.

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