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Business Statistics Office

Business Monitor

Report on the Census of Production

Industrial (including process) plant and steelwork



A publication of the Government Statistical Service

Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

Government Statistical Service

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

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PA341

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1976

Industrial (including process) plant and steelwork

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

Introductory notes

Petroleum and natural gas

Milk and milk products

Bread and flour confectionery

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

Formulated adhesives, gelatine, etc.

Aluminium and aluminium alloys

Copper, brass and other copper alloys

Agricultural machinery (except tractors)

Construction and earth-moving equipment

PA339.2 Printing, bookbinding and paper goods machinery

Food and drink processing machinery and

Precision chains and other mechanical engineering

Photographic and document copying equipment

Scientific and industrial instruments and systems

PA339.9 Miscellaneous (non-electrical) machinery
PA341 Industrial (including process) plant and steelwork

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

PA239.1 Spirit distilling and compounding

Mineral oil refining
Lubricating oils and greases

Brewing and malting

PA239.2 British wines, cider and perry

Inorganic chemicals

Toilet preparations

Soap and detergents

Dyestuffs and pigments

synthetic rubber

PA279.3 Explosives and fireworks

PA279.4 Formulated pesticides, etc.

Iron castings, etc.

Office machinery

Mining machinery

power tools

PA279.5 Printing ink
PA279.6 Surgical bandages, etc.
PA279.7 Photographic chemical materials

Iron and steel (general)

Miscellaneous base metals

Metal-working machine tools

PA333.3 Compressors and fluid power equipment

Industrial engines
Textile machinery and accessories

Mechanical handling equipment

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

PA339.5 Scales and weighing machinery and portable

packaging and bottling machinery

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Radio and electronic components

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Gramophone records and tape recordings

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PA349.1 Ball, roller, plain and other bearings

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equipment

Insulated wires and cables

Fertilizers

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Tobacco

PA271.2 Organic chemicals

Stone and slate quarrying and mining

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

Cocoa, chocolate and sugar confectionery

Chalk, clay, sand and gravel extraction

Coal mining

Grain milling

Biscuits

Sugar

PA229.1 Margarine

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PA333.2 Valves

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accessories, etc.
Shipbuilding and marine engineering

Wheeled tractor manufacturing PA381 1 Motor vehicle manufacturing

Trailers, caravans and freight containers

Motor cycle, tricycle and pedal cycle manufacturing Aerospace equipment manufacturing and repairing

Locomotives, railway track equipment, railway carriages wagons and trams

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Engineers' small tools and gauges PA391

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PA395 Cans and metal boxes

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PA399.1 Metal furniture

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PA411 Production of man-made fibres

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

PA414 Woollen and worsted PA415

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PA418 Lace

PA419 Carpets

PA421 Narrow fabrics

Household textiles and handkerchiefs

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

PA423 Textile finishing PA429.1 Asbestos

PA429.2 Miscellaneous textile industries

PA431 Leather (tanning and dressing) and fellmongery

PA432 Leather goods

PA433

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Men's and boys' tailored outerwear Women's and girls' tailored outerwear PA443

PA444 Overalls and men's shirts, underwear, etc. PA445

Dresses, lingerie, infants' wear, etc. Hats, caps and millinery

PA449 1 Corsets and miscellaneous dress industries

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PA461.1 Refractory goods

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PA472 Furniture and upholstery

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PA481 Paper and board

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PA484.1 Wallcoverings

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Printing, publishing of newspapers and periodicals General printing and publishing PA485

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Toys, games and children's carriages PA494 1

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Radio, radar and electronic capital goods PA1002 Electrical appliances primarily for domestic use

PA341 INDUSTRIAL (INCLUDING PROCESS) PLANT AND STEELWORK

The information in this report relates to establishments classified to the Industrial (including process) plant and steelwork industry, minimum list heading 341 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing steam raising boilers of all types and accessories such as mechanical stokers, but not marine boilers and hot water boilers cast in sections; process plant and other industrial plant including lime and cement kilns, gas plant, sintering plant, metallurgical and other furnaces and other metal manufacturing plant (excluding rolling mills), degreasing and coating plant, chemical, petro-chemical and oil refining plant, nuclear reactors, water and sewage treatment plant; structural iron and steelwork for buildings and bridges (including similar work in other metals), and prefabricated buildings of steel and other metals; heavy iron and steelwork (including similar work in other metals) other than for structural uses, including storage tanks, spheres, process pressure vessels, heat exchangers, pipes, chimneys, bunkers, hins and hoppers. Parts of industrial (including process) plant and steelwork are included but industrial hollow-ware is not. Contractors responsible for the design, engineering, and procurement, construction and commissioning of complete plants for process industries such as chemicals, petro-chemicals, oil refining and gas are included, (but firms and consulting engineers responsible for only some of the fun functions are excluded).

> 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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PA341

Output and costs, 1973 - 1976 All United Kingdom establishments classified to the industry (a)

| | Unit | 1973 | 1974 | 1975 | 1976 |
|--|--------------------|---------------------|-----------|-----------|-----------|
| Enterprises | Number | 1,611 | 1,789 | 1,885 | 2,028 |
| Establishments | antikus areas bins | 1,766 | 1,969 | 2,072 | 2,225 |
| Sales of goods produced | £ thousand | 1,092,980 | 1,385,874 | 1,771,821 | 1,419,271 |
| Receipts for work done and industrial services | CHARGE TARRESTE | and some special of | | | |
| rendered | sinciasprijoo ace | (b) | (b) | (b) | 523,167 |
| Capital goods produced for establishments' own use | grid cancilibra en | 1,176 | 3,732 | 2,035 | 1,787 |
| Non-industrial services rendered | " | 6,856 | 4,979 | 6,443 | 6,809 |
| Goods merchanted or factored | | 45,655 | 56,983 | 75,701 | 82,207 |
| Total sales and work done (c) | ,, | 1,146,667 | 1,451,567 | 1,856,000 | 2,033,241 |
| Increase during the year, work in progress and | | | | | |
| goods on hand for sale | " | 134,758 | 282,339 | 73,979 | 84,865 |
| Gross output | " | 1,281,425 | 1,733,906 | 1,929,979 | 2,118,105 |
| Purchases of materials for use in production, and packaging and fuel | | 562,912 | 729,881 | 703,487 | 746,165 |
| Purchases of goods for merchanting or factoring | " | 46,034 | 47,099 | 64,504 | 66,642 |
| Increase during the year, stocks of materials, stores and fuel | ,, | 20,759 | 30,555 | 7,489 | 4,711 |
| Cost of industrial services received | " | 78,462 | 175,312 | 163,993 | 195,079 |
| Net output | " | 614,776 | 812,170 | 1,005,483 | 1,114,931 |
| Total employment (d) | Thousands | 149.8 | 164.9 | 163.2 | 164.1 |
| Net output per head | £ | 4,103 | 4,926 | 6,163 | 6,794 |
| Payments for non-industrial services | | | | | |
| Rents, hire of plant and machinery (e)(f) | £ thousand | 12,634 | 14,621 | 19,969 | 28,247 |
| Commercial insurance premiums | " | 7,648 | 7,695 | 10,157 | 13,856 |
| Bank charges | | 792 | 1,037 | 1,345 | 1,812 |
| Other non-industrial services (g) | " | 34,045 | 44,312 | 103,175 | 93,033 |
| icensing of motor vehicles | ,, | 435 | 484 | 565 | 806 |
| lates, excluding water rates | " | 7,790 | 10,735 | 15,354 | 16,578 |
| Gross value added at factor cost | " | 551,431 | 733,286 | 854,919 | 960,598 |
| Gross value added at factor cost per head | £ | 3,681 | 4,448 | 5,240 | 5,853 |

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 71 per cent of employment within the industry.

TABLE 2

Capital expenditure, 1973 - 1976

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

| | | | | | £ thousand |
|--|--------|---------|--------|------|--------------|
| Green of Applications of Street Stree | 1973 | 1974 | 1975 | | 1976 |
| Land and buildings | | | 100 | amen | 00 00 3 Mar. |
| New building work | 9,261 | 7,695 | 15,195 | | 8,931 |
| Land and existing buildings | | | | | |
| Acquisitions | 1,288 | 2,707 | 2,217 | | 3,754 |
| Disposals | 4,594 | 1,628 | 433 | | 1,823 |
| Vehicles | | | | | |
| Acquisitions | | | | | |
| Motor cars | 4,177 | 5,491) | 7,474 | | 10,701 |
| Other vehicles | 1,371 | 1,241) | | | |
| Disposals | | | | | |
| Motor cars | 1,737 | 1,571) | 2,190 | | 3,445 |
| Other vehicles Plant and machinery | 201 | 141) | | | |
| Acquisitions | 20,160 | 20,491 | 27,329 | | 28,803 |
| Disposals | 1,859 | 1,697 | 1,509 | | 3,207 |
| Total net capital expenditure | 27,867 | 32,588 | 48,083 | | 43,715 |

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 71 per cent of employment within the industry.

TABLE 3

Stocks and work in progress, 1973 - 1976
All United Kingdom establishments classified to the industry (a)

| | | | | | £ thousand |
|--|----------------------|---------|----------|---------------------|----------------------|
| 140 May 200, 200, 140, 140, 140, 140, 140, 140, 140, 1 | 1973 | 1974 | 1975 | | 1976 |
| | ared the Services of | | Increase | near term of veyers | Value at end of year |
| Materials, stores and fuel | 20,759 | 30,555 | 7,489 | 4,711 | 120,325 |
| Work in progress | 127,583 | 281,071 | 56,592 | 78,569 | 536,557 |
| Goods on hand for sale | 7,175 | 1,268 | 17,387 | 6,296 | 35,020 |
| Total | 155,517 | 312,894 | 81,467 | 89,576 | 691,902 |

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 71 per cent of employment within the industry.

⁽b) Included in Sales of goods produced.

⁽c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ341.

⁽d) Average number employed, including full and part-time employees (see table 7) and working proprietors.

⁽e) 1973 figures include hire of vehicles.

For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was

¹⁹⁷⁴⁻¹⁹⁷⁶ figures include the cost of hiring goods vehicles.

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

Analysis of establishments by size, 1976
All United Kingdom establishments classified to the industry (a)

| Size group (b) | Estab- lish- ments | Enter- prises (c) | Employme | ent | | Wages and sa | laries (f) | agnitiving | ting to the |
|----------------------|--------------------------|-------------------------|-------------|-----------------|---------------|--------------|-------------|------------|-------------|
| | | | Total (d) | Opera- tives | Others (e) | Operatives | | Others (e) | 1 WHA |
| | | | (u) | 11463 | (6) | Total | per head | Total | per head |
| | Number | Number | Number | Number | Number | £ thousand | £ | £ thousand | £ |
| | | | | 141 | | | | | |
| 1 - 10 | 877 | 865 | 4,609) | | | | | | |
| 11 - 19 | 397 | 394 |) 5,771) | | | | | | |
| 11 - 19 | 397 | 394 | 5,7717 | 26,345 | 11,868 | 79,144 | 3,004 | 43,450 | 3,661 |
| 20 - 49 | 426 | 418 | 13,644) | | | v ace may | | 21E3 1029 | 3,001 |
| 50 - 99 | 233 | 225 | 15,631) | | | | | | |
| 100 - 199 | 151 | 142 | 20,641 | 13,775 | 6,830 | 42,569 | 3,090 | 25,498 | 3,733 |
| 200 - 299 | 45 | 42 | 10,948 | 6,477 | 4,468 | 19,889 | 3,071 | 17,276 | 3,867 |
| 300 - 399 | 19 | 18 | 6,627 | 3,755 | 2,868 | 13,446 | 3,581 | 11,948 | 4,166 |
| 400 - 499 | 20 | 20 | 8,931 | 5,275 | 3,653 | 19,374 | 3,673 | 13,916 | 3,809 |
| 500 - 749 | 15 | 15 | 8,778 | 5,295 | 3,483 | 17,161 | 3,241 | 14,246 | 4,090 |
| 750 - 999 | 18 | 17 | 15,487 | 6,949 | 8,538 | 24,483 | 3,523 | 35,872 | 4,201 |
| 1,000 - 1,499 | 11 | 10 | 13,149 | 6,184 | 6,965 | 23,613 | 3,818 | 34,839 | 5,002 |
| 1,500 - 1,999 | 5 | 5 | 8,528 | 5,795 | 2,733 | 22,039 | 3,803 | 10,875 | 3,979 |
| 2,000 and over | 8 | 6 | 31,363 | 20,007 | 11,356 | 79,227 | 3,960 | 45,681 | 4,023 |

| Total | 2,225 | 2,028 | 164,107 | 99,857 | 62,762 | 340,944 | 3,414 | 253,601 | 4,041 |
|-------|-------|-------|---------|--------|--------|---------|-------|---------|-------|
| | | | | | | | | | |

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

| Total sales and work done (g) | Gross output | Net output | 1,000 | Gross value added at factor cost | | Net capital expenditure (h) | Total stocks and work in progress at end of year |
|-------------------------------------|--------------|------------|-------------|--|-------------|-----------------------------------|---|
| | | Total | per head | Total | per head | | |
| £ thousand | £ thousand | £ thousand | £ | £ thousand | £ | £ thousand | £ thousand |
| | | | | | beint a | | |
| 457,354 | 472,503 | 226,849 | 5,721 | (j) | (j) | 13,648 | 101,562 |
| | | | | | | | |
| | | | | | | | |
| 252,770 | 260,991 | 128,193 | 6,211 | 305,275(j) | 5,063(j) | 6,393 | 66,686 |
| 156,855 | 162,426 | 74,797 | 6,832 | 61,077 | 5,579 | 5,603 | 35,048 |
| 94,706 | 98,442 | 52,304 | 7,893 | 45,213 | 6,823 | 1,758 | 27,306 |
| 122,729 | 124,795 | 63,959 | 7,161 | 54,595 | 6,113 | 2,007 | 33,270 |
| 126,768 | 129,586 | 54,130 | 6,166 | 46,508 | 5,298 | 2,662 | 32,197 |
| 228,447 | 225,759 | 108,192 | 6,986 | 89,027 | 5,749 | 3,799 | 49,218 |
| 153,956 | 159,030 | 93,732 | 7,128 | 79,644 | 6,057 | 3,747 | 38,019 |
| 81,739 | 84,801 | 51,501 | 6,039 | 45,792 | 5,370 | 1,187 | 22,177 |
| 357,916 | 399,771 | 261,274 | 8,331 | 233,466 | 7,444 | 2,912 | 286,420 |
| | | | | | | | |

| 2,033,241 | 2,118,105 | 1,114,931 | 6,794 | 960,598 | 5,853 | 43,715 | 691,902 |
|-----------|-----------|-----------|-------|---------|-------|--------|---------|
| | | | | | | | |

⁽f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £74,913 thousand.

⁽b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

⁽c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

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

⁽j) Gross value added data relate to establishments employing 1-199.

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PA341

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976 All United Kingdom establishments classified to the industry

| Area | Total employmen | t (a) | Net capital expenditur | | the region t | , gross value addi rom returns rece more than 80 pe region (d) | eived from | actabli-L |
|--------------------------------|--------------------|----------------------------------|---------------------------|----------------------------------|--------------|---|-------------------|-----------------------------------|
| | | | | | Net output | Gross value added at factor cost | percenta | ment as a age of total employment |
| | Thousands | per cent of United Kingdom | £ thousand | per cent of United Kingdom | £ thousand | £ thousand | da <u>Saranga</u> | disk made and a |
| Standard regions of England | | | | | | | | |
| North | 21.5 | 13.1 | | 15%10 | | | | |
| | 21.5 | 13.1 | 4,680 | 10.7 | 137,178. | 123,843 | 78.0 | |
| Yorkshire and Humberside | 12.2 | 7.4 | 5,384 | 12.3 | 37,694 | 33,080 | 52.3 | |
| East Midlands | 10.1 | 6.2 | 2,895 | 6.6 | 40,060 | 36,726 | 75.0 | |
| East Anglia | 3.4 | 2.1 | 905 | 2.1 | 2,997 | 2,657 | 16.5 | |
| South East | 34.7 | 21.2 | 6,061 | 13.9 | 205,077 | 172,127 | 62.8 | |
| South West | 4.2 | 2.6 | 1,572 | 3.6 | 17,550 | 15,515 | 57.0 | |
| West Midlands | 27.5 | 16.7 | 6,769 | 15.5 | 89,110 | 77,822 | 61.3 | |
| North West | 17.6 | 10.7 | 5,553 | 12.7 | 66,467 | 56,555 | 52.1 | |
| England | 131.1 | 79.9 | 33,820 | 77.4 | 596,133 | 518,325 | 62.1 | ROBELL |
| Wales | 6.8 | 4.1 | 1,552 | 3.6 | 18,548 | 17,010 | 44.3 | |
| Scotland | 25.1 | 15.3 | 8,233 | 18.8 | 78,289 | 67,160 | 49.9 | |
| Great Britain | 163.0 | 99.3 | 43,605 | 99.8 | 692,970 | 602,495 | 59.5 | |
| Northern Ireland | 1.1 | 0.7 | 109 | 0.2 | 4,144 | 3,623 | 78.9 | |
| Unallocated (e) | - | - | - | _ | 417,817 | 354,481 | _ | |
| United Kingdom (b) | 164.1 | 100.0 | 43,715 | 100.0 | 1,114,931 | 960,598 | | _ |

(a) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(b) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

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

d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate the address.

(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

| Accoun | ting year ended | Percentage of total returns received | Percentage of total number employed |
|--------|------------------------|--------------------------------------|-------------------------------------|
| | 1991 nd 1841 185 18679 | per cent | per cent |
| 1976 | April (a) | 1.6 | 0.3 |
| | May | 1.0 | 1.0 |
| | June | 4.6 | 1.6 |
| | July | 2.9 | 1.1 |
| | August | 2.4 | 0.7 |
| | September | 5.7 | 7.0 |
| | October | 4.5 | 2.9 |
| | November | 2.4 | 1.7 |
| | December | 42.0 | 43.1 |
| 1977 | January | 4.6 | 13.0 |
| | February | 2.1 | 0.8 |
| | March (b) | 26.2 | 26.9 |

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

| nt | per cent | per cent |
|----|-----------------|----------|
| | | |
| | 1 -0.50 (0.000) | 90 |
| | 2 | 10 |
| | | 1 2 |

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at end June, 1976.

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These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor -PA1001 (Introductory Notes) of the Report on the Census of Production, 1976.

GENERAL INFORMATION

Changes made for 1976

The Census for 1976 is in line with similar inquiries being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the industry reports compared with 1975. These include separate headings for:

Sales of goods produced

Receipts for work done and industrial services

Amounts paid for hire of plant and machinery Amounts paid for rent of industrial and commercial buildings

Specific changes are explained in the introductions to the industry reports or by footnotes to the

Suppression of information relating to individual undertakings

Section 9(5)(b) of the Statistics of Trade Act 1947 states - "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."

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.

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 enter-
- R revised

Rounding of figures

Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent items may not always agree exactly with the total shown.

Industrial classification

United Kingdom Standard Industria Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom, The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor P01000.

Statistical units

The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turn-over, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address e.g. a farm, a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of separate information in respect of each address; whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables.

Efforts are made by the Business Statistics Office to ensure, by negotiating with respondents, that the return from an establishment does not cover local units or addresses in more than one of the countries of the United Kingdom.

Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical News No.13 May 1971.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set of Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these activities in their return. Particulars relating to head offices mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of

production (especially the enterprise analyses of gusiness Monitor PA1002) related establishments Business routing FATOUZ) related establishments are combined. For these purposes an enterprise group may be defined as a business consisting of ther a single establishment or two or more astablishments under common ownership or control. aringing together establishments into enterprise also necessary for the purpose of ansuring that there will be no disclosure of the ensuring activities of any one enterprise group. actormation about the relationship of nformation stablishments, the changing structure of groups companies and about common ownership links is htained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establish-

The register permits a questionnaire to be sent to the reporting establishment on which direct the latter can include information relating to all the manufacturing (or local) units which it comprises.

The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on nformation provided by the Department of Employment from the annual censuses of employment.

Establishments with 20 or more employees are included in the censuses each year and the information they supply to the census is supplemented by the returns that those with 25 or more employees provide to the quarterly inquiries. Information about establishments with fewer than 20 employees most industries is less securely based, ncreasing use has been made of data on these small establishments supplied by the Department of Employment. One benefit of using this information is an improvement in the estimates of the number of smaller establishments and enterprises, but there is little effect on other aggregates (e.g. employment, output, net capital expenditure).

return was required in the 1976 Census from each stablishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

The regions defined in Table 5 take account of the oundary changes arising out of the Local overnment Act 1972 and the Local Government Act Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland.

TERMS USED IN THE CENSUS REPORT

verage number employed

Establishments were required to state the number persons on the payroll on average during the ear of return, whether full-time or part-time employees. Separate figures were required for:

- (a) administrative, technical and clerical employees
- (b) all other employees (operatives)

verages could be calculated from the figures elating 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 establishment) 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 "selfemployed" 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.

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

Operatives include all other classes of employees, that is, broadly speaking, all manual wage They include operatives employed in earners. power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included, but outworkers 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. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year.

(a) New building work This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or 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 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 or premium payable for leaseholds acquired (excluding the value of assets acquired in taking over an existing business), and the amounts receivable for 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 the 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. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. 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.

Cost of industrial services

This includes amounts payable to other firms for work done on materials supplied by the establishment, payments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services

This includes rent of industrial and commercial buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport, advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how" are also included.

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for sale.

Net output

Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

Net output per head

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

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of raw materials,

components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishments! capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are 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 are kept are valued on the same basis. The value shown for sales is the "net selling value" defined as the amount (excluding value

value" defined as the amount (excluding value" defined as the amount (excluding value" added tax) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Work done and industrial services rendered Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain

Industries this heading covers a wide variety of activities, for example, within the food sector - butter packed on commission; within the textile industries - making up of garments, fur dressing and textile finishing; within printing and publishing - preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber.

Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for establishments' own use This includes all work of a capital nature carried out during the year by the establishments' own staff for their own use.

Non-industrial services rendered
This includes rents received for commercial and
Industrial buildings, amounts charged for hiring
out plant, machinery and other goods and amounts
charged to other organisations for the provision of
transport. It also includes amounts received for
the right to use patents, trademarks, copyrights
etc., manufacturing and quarrying rights and technical "know-how" and revenue from such staff
facilities as canteens.

Goods merchanted or factored

Merchanted goods are those (excluding canteen sales) sold without having been subjected to any manufacturing process by the seller.

Stocks and work in progress Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries

excluded.

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 redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc. is excluded.

Remuneration paid to outworkers
The remuneration paid to outworkers (i.e. persons employed by the establishment who do their work in their own homes) is generally on a piece-work basis. Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are

Employers' insurance and welfare contributions
This item includes employers' contributions to
national insurance and graduated pensions (and/or
earnings related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc. for employees, former employees and their dependants are also included.

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