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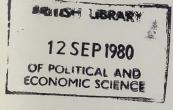
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Business Statistics Office

Business Monitor

Report on the Census of Production

Vegetable and animal oils and fats





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A publication of the Government Statistical Service

PA221

Business Monitor A publication of the Government Statistical Service

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Report on the Census of Production 1978

Vegetable and animal oils and fats

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



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| 1 4009.0 | power tools |
| PA339.7 | Food and drink processing machinery and |
| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | packaging and bottling machinery |
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| PA349.1 | Ball, roller, plain and other bearings |
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| PA364 | Radio and electronic components |
| PA365.1 | Gramophone records and tape recordings |
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| | equipment |
| PA366 | Electronic computers |
| PA367 | Radio, radar and electronic capital goods |
| PA368 | Electrical appliances primarily for domestic use |
| | |

| | and the second |
|--------------------|---|
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| PA369.2 | Primary and secondary batteries |
| PA369.4 | Electric lamps, electric light fittings, wiring |
| PA370 | accessories, etc. Shipbuilding and marine engineering |
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| PA384 | Locomotives, railway track equipment, railway carriages, wagons and trams |
| PA390 | Engineers' small tools and gauges |
| PA391 | Hand tools and implements |
| PA392 PA393 | Cutlery, spoons, forks and plated tableware, etc. Bolts, nuts, screws, rivets, etc. |
| PA394 | Wire and wire manufactures |
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| PA396 PA399 1 | Jewellery and precious metals Metal furniture |
| PA399.5 | Drop forgings, etc. |
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| PA412 | Spinning and doubling on the cotton and flax systems |
| PA413 PA414 | Weaving of cotton, linen and man-made fibres Woollen and worsted |
| PA415 | Jute |
| PA416 | Rope, twine and net Hosiery and other knitted goods |
| PA417.1 PA417.2 | Warp knitting |
| PA418 | Lace |
| PA419 PA421 | Carpets Narrow fabrics |
| PA4221 | Household textiles and handkerchiefs |
| PA422.2 PA423 | Canvas goods and sacks and other made-up textiles Textile finishing |
| | Asbestos |
| PA429.2 | Miscellaneous textile industries Leather (tanning and dressing) and fellmongery |
| PA431 PA432 | Leather goods |
| PA433 | Fur |
| PA441 PA442 | Weatherproof outerwear Men's and boys' tailored outerwear |
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| PA444 | Overalls and men's shirts, underwear, etc. Dresses, lingerie, infants' wear, etc. |
| PA445 PA446 | Hats, caps and millinery |
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| PA461.2 PA462 | Building bricks and non-refractory goods Pottery |
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| PA464 | Cement |
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| PA471 | Timber |
| PA472 PA473 | Furniture and upholstery Bedding, etc. |
| PA474 | Shop and office fitting |
| PA475 | Wooden containers and baskets Miscellaneous wood and cork manufactures |
| PA479 PA481 | Paper and board |
| PA482.1 | Cardboard boxes, cartons and fibre-board packing cases |
| PA482.2 PA483 | Packaging products of paper and associated materials Manufactured stationery |
| PA484.1 | Wallcoverings |
| PA484.2 PA485 | 2 Miscellaneous manufactures of paper and board Printing, publishing of newspapers and periodicals |
| PA489 | General printing and publishing |
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| PA492 PA493 | Brushes and brooms |
| PA494. | 1 Toys, games and children's carriages |
| PA494.3 PA495 | 3 Sports equipment Miscellaneous stationers' goods |
| PA496 | Plastics products |
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| PA499.2 PA500 | |
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- PA602 Electricity PA603 Water supply PA1002 Summary tables

LIST O

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PA221 VEGETABLE AND ANIMAL OILS AND FATS

The information in this report relates to establishments classified to the Vegetable and animal oils and fats industry, minimum list heading 221 the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Producing crude oil from oilseeds, nuts or fish; the refining and hydrogenation (hardening) of vegetable and marine oils, including olive oil, whale oil and fish liver oils and the manufacture of dripping, suet, tallow, premier-jus, oleo-stearine and other animal oils and greases (other than lard). The production of oilseed cakes and meals, meat and bone meal and sterilised bone flour (other than for use as fertiliser) is included.

| | | | In interpre | ting the data in t | he tables it is ess | ential to bea |
|--------|--------------------|------------------------------------|-------------------------------|--------------------|---------------------|----------------|
| | | | in mind the no | tes and definition | ns which comme | nce on page |
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value added

TABLE 1

Output and costs, 1974–1978 All United Kingdom establishments classified to the industry (a)

| The second second second | Unit | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|-----------------|---------|---------|---------|---------|---------|
| Enterprises | Number | 122 | 122 | 129 | 120 | 112 |
| Establishments | enistase-ceto a | 155 | 155 | 162 | 157 | 149 |
| Sales of goods produced | £ thousand | 479,638 | 415,747 | 590,924 | 761,202 | 711,057 |
| Receipts for work done and industrial services rendered | | (b) | (b) | 1,915 | 1,764 | 1,155 |
| Capital goods produced for establish- ments' own use | | 277 | 354 | 300 | 493 | 681 |
| Non-industrial services rendered | " | 506 | 517 | 825 | 1,700 | 1,952 |
| Goods merchanted or factored | " | 23,313 | 16,668 | 39,182 | 80,238 | 87,311 |
| Total sales and work done (c) | " | 503,734 | 433,286 | 633,146 | 845,397 | 802,157 |
| Increase during the year, work in progress and goods on hand for sale | " | 5,138 | -3,386 | 7,438 | 3,503 | 2,142 |
| Gross output | " | 508,871 | 429,900 | 640,584 | 848,900 | 804,299 |
| Purchases of materials for use in pro- duction, and packaging and fuel | " | 403,680 | 327,503 | 513,160 | 676,713 | 604,143 |
| Purchases of goods for merchanting or factoring | " | 20,709 | 14,862 | 35,045 | 76,700 | 71,857 |
| Increase during the year, stocks of materials, stores and fuel | " | 8,639 | -12,265 | 25,885 | 16,253 | -5,363 |
| Cost of industrial services received | " | 3,139 | 4,541 | 7,314 | 9,753 | 9,430 |
| Net output | | 89,982 | 70,728 | 110,949 | 101,988 | 113,506 |
| Total employment (d) | Thousands | 8.9 | 8.1 | 8.6 | 8.2 | 7.7 |
| Net output per head | £ | 10,065 | 8,770 | 12,961 | 12,462 | 14,774 |
| Payments for non-industrial services | | | | | | |
| Hire of vehicles, plant and machinery | £ thousand | 547 | 612 | 579 | 1,065 | 896 |
| Rents of industrial and commercial buildings | | (e) | (e) | 273 | 335 | 412 |
| Commercial insurance premiums | " | 1,110 | 1,083 | 1,659 | 1,979 | 2,109 |
| Bank charges | " | 98 | 128 | 170 | 360 | 196 |
| Other non-industrial services | | 6,827 | 8,570 | 15,681 | 17,852 | 18,206 |
| Licensing of motor vehicles | " | 112 | 224 | 231 | 289 | 353 |
| Rates, excluding water rates | " | 885 | 1,053 | 1,156 | 1,278 | 1,224 |
| Gross value added at factor cost | | 80,403 | 59,059 | 91,202 | 78,831 | 90,111 |
| Gross value added at factor cost per head | £ | 8,994 | 7,323 | 10,654 | 9,632 | 11,729 |

Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 84 per cent of employment within the industry. (a)

(b) Included in sales of goods produced.

Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ221. (c)

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

For 1974 and 1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and (e) machinery.

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TABLE 2

_{Capital} expenditure, 1974–1978 All United Kingdom establishments classified to the industry (a)(b)

| | 1974 | 1975 | 1976 |
|-----------------------------|-------------|--------------|-------------|
| Land and buildings | | | Pastar cost |
| New building work | 2,622 | 1,688 | 1,944 |
| Land and existing buildings | | | |
| Acquisitions | 18 | 18 | 245 |
| Disposals | 220 | E sectornald | 89 |
| Vehicles | | | |
| Acquisitions | 1,066 | 820 | 1,650 |
| Disposals | 134 | 127 | 191 |
| Plant and machinery | | | |
| Acquisitions | 9,646 | 9,591 | 10,653 |
| Disposals | 93 | 135 | 50 |
| Total net capital expendit | ture 13,106 | 11,856 | 14,160 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

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

TABLE 3

Stocks and work in progress, 1974–1978 All United Kingdom establishments classified to the industry (a)

| | | | | | | | | £ thousand | |
|---------------------------------|-----------------|--------------------|--------|-----------|----------|-------------|----------------|-------------------------|--|
| a contracto | | | 1974 | 1975 | 1976 | 1977 | 1978 | | |
| | | 22,990907,6114,184 | | 24,7880,5 | Increase | 5282 M 7293 | Set Childh Har | Value at end of year | |
| ^{Materials, stores ar} | | | 8,639 | -12,265 | 25,885 | 16,253 | -5,363 | 59,012 | |
| Work in progress | | | 1,163 | -1,458 | 1,785 | 317 | 746 | 6,251 | |
| Goods on hand for | r sale | | 3,974 | -1,927 | 5,653 | 3,186 | 1,396 | 18,392 | |
| Total | 19 w/25% (2009) | 102458-10 | 13,777 | -15,651 | 33,323 | 19,756 | -3,221 | 83,655 | |

3

Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

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| 142261 2119 | indeli Gatas ma Sprii . | £ thousand |
|-------------|-------------------------|------------|
| 1977 | 1978 | Size |
| (p) | etnents | (a) |
| 2,050 | 2,018 | |
| | | |
| 163 | 509 | |
| 160 | 70 | |
| | | |
| 1,949 | 2,239 | |
| 353 | 501 | |
| | | |
| 10,803 | 11,152 | |
| 425 | 167 | |
| 14,026 | | |
| 14,020 | 15,180 | |

TABLE 4

Analysis of establishments by size, 1978 All United Kingdom establishments classified to the industry (a)

| Size | Estab- | Enter- | Employmen | it | | Wages and sal | aries (f) | | |
|--------------|----------------|---------------|--------------|-----------------|---------------|---------------|-------------|------------|-------------|
| group (b) | lish- ments | prises (c) | | | | 1429 | 1 | agmean | |
| | | | Total (d) | Opera- tives | Others (e) | Operatives | 763.20 | Others (e) | |
| | | | 107 | | A1 41 | Total | per head | Total | per head |
| | Number | Number | Number | Number | Number | £ thousand | £ | £ thousand | £ |
| | | | | | | | | | |
| 1-10 | 63 | 57 | 384) | | | | | | |
| 11-19 | 27 | 23 |) 396) | | | | | | |
| 11-19 | 21 | 23 |) | 1,994 | 645 | 7,689 | 3,856 | 3,096 | 4,800 |
| 20—49 | 26 | 20 | 797)) | | | | | | |
| 50—99 | 16 | 16 | 1,150) | | | | | | |
| 100—199 | 10 | 9 | 1,413 | 932 | 477 | 4,172 | 4,476 | 2,364 | 4,956 |
| 200—399 | 4 | 4 | 1,142 | 788 | 354 | 3,062 | 3,886 | 1,573 | 4,444 |
| 400 and over | 3 | 3 | 2,401 | 1,821 | 580 | 8,072 | 4,433 | 3,044 | 5,248 |

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| Iotal | 149 | 112 | 7,683 | 5,535 | 2,056 | 22,995 | 4,154 | 10,077 | 4,901 |
|-------|-----|-----|---|-------|-------|--------|-------|--------|-------|
| | | | | | | | | | |
| | | | A THE ALL DESCRIPTION OF THE ALL DESCRIPTION | | | | | | |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(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.

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(d) Including working proprietors.

(e) Administrative, technical and clerical employees.

| and work done (g) | Gross out; | out Net | Gross value added at factor cost | | | |
|------------------------|-----------------------------------|--------------------------------|--|-------------------------------------|---------------------------|----------------|
| | | Tot | al | per head | Total | per head |
| £ thousand | £ thousan | d £th | nousand | £ | £ thousand | £ |
| 169,221 | 170,426 | 41 | ,229 | 15,119 | (j) | (j) |
| | | | | | | |
| 283,506 | 284,033 | 27 | ,505 | 19,466 | 51,591(j) | 12,462(j) |
| 105,850 | 106,945 | 15 | ,289 | 13,388 | 12,421 | 10,877 |
| 243,580 | 242,896 | 29 | ,483 | 12,279 | 26,098 | 10,870 |
| | "%.SI | | 086.8 | 6,3 | 20,000 | 10,070 |
| | | | | | | |
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| 02,157 | 804,299 | | ,506 | 14,774 | 90,111 | 11,729 |
| f) The cos estimate | t of employers ed for the indu | ′ contributio stry at £5,38 | ns to nationa 53 thousand. | l insurance, pens | ions and welfare | e schemes and |
| ^{g)} Sales of | goods produce | ed. capital or | ods manufac | tured and buildi nd merchanted g | ngs constructed loods. | by establishme |
| | | | | ls of land and ex | | vehicles and n |

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Net capital expenditure (h) Total stocks and work in progress at end of year

£ thousand

£ thousand

11,555

5,898

2,832 17,657 2,679 8,547 3,771 45,895

15,180

83,655

I the running costs of canteens, is

nents for their own use, work done,

plant and machinery.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1978 All United Kingdom establishments classified to the industry (a)

| Area | | Total employment (b) | | Net capital expenditure (c) | | Net Gross value output (d) added at factor cost (d) | | factor cost returned st by establishments wit 80 per cent or more of their employment |
|-----------------------------|---------|-------------------------|----------------------------------|--------------------------------|----------------------------------|--|----------|---|
| | | | | | | | | in the region as a proportion of total gross value added at factor cost in the region |
| - SUSSION 3 | - Dente | Thousands | per cent of United Kingdom | £ thousand | per cent of United Kingdom | £ thousand | £ thousa | nd percentage |
| Standard regions of England | : | | | | | | | |
| North | | 0.2 | 2.4 | 264 | 1.7 | 2,046 | 1,334 | 55.5 |
| Yorkshire and Humberside | | 1.5 | 19.6 | 3,008 | 19.8 | 20,124 | 15,997 | 72.5 |
| East Midlands | | 0.3 | 3.7 | 367 | 2.4 | 2,652 | 1,713 | 100.0 |
| East Anglia | | 0.1 | 1.0 | 145 | 1.0 | 1,265 | 978 | 24.9 |
| South East | | 1.7 | 22.1 | 3,974 | 26.2 | 38,859 | 31,832 | 36.4 |
| South West | | 0.3 | 3.9 | 802 | 5.3 | 4,980 | 3,851 | 17.4 |
| West Midlands | | 0.4 | 4.9 | 482 | 3.2 | 5,525 | 4,104 | 74.5 |
| North West | | 2.5 | 32.6 | 4,107 | 27.0 | 26,085 | 20,469 | 29.8 |
| England | | 6.9 | 90.2 | 13,148 | 86.6 | 101,537 | 80,278 | |
| Wales | | * | * | * | * | * | - * | * |
| Scotland | | 0.5 | 5.9 | 1,534 | 10.1 | 7,202 | 5,648 | 26.4 |
| Great Britain | | * | * | * | * | * | * | |
| Northern Ireland | | * | * | * | * | * | * | * |
| United Kingdom | | 7.7 | 100.0 | 15,180 | 100.0 | 113,506 | 90,111 | |

Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. (a)

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

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

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

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TABLE 6

PA221

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

| Accoun | ting year ended | Percentage of tota | Percentage of total returns received | | | | |
|--------|-----------------|----------------------------------|--------------------------------------|---------------|--|--|--|
| | 103570 | per cent | Saturda estadouna | per ce | | | |
| 1978 | April (a) | - | | 1 1 1 1 1 - 1 | | | |
| | Мау | 4.4 | | 2.5 | | | |
| | June | 2.2 | | 1.5 | | | |
| | July | 2.2 | | 1.3 | | | |
| | August | a no childred hous the other man | | 1 | | | |
| | September | 13.0 | | 3.4 | | | |
| | October | 4.4 | | 5.5 | | | |
| | November | 2.2 | | 0.5 | | | |
| | December | 47.8 | | 69.4 | | | |
| 1979 | January | the writing of the country to be | | Clares, they | | | |
| | February | 2.2 | | 1.4 | | | |
| | March (b) | 21.7 | | 14.6 | | | |
| | | | | | | | |

From 6th April.

Including returns made for twelve-month period ended 1st to 5th April 1979.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

| Sex | Full-time | Part-time | All employees | |
|--------|-----------|-----------|---------------|--|
| | per cent | per cent | per cent | |
| Male | 78 | 1 | 79 | |
| Female | 15 | 6 | 21 | |

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1977.

entage of total number employed

ent

Source: Department of Employment

TABLE 8

Operating ratios, 1977-1978

All United Kingdom establishments classified to the industry (a)

| | | | Unit | 1977 | 1978 |
|---------------------------------------|---------------------------|---|------|---------|---------|
| Gross output per head | | | £ | 103,727 | 104,686 |
| | | | | | |
| Net output per head | | | £ | 12,462 | 14,774 |
| Gross value added per head | | | £ | 9,632 | 11,729 |
| Gross value added per field | | | | | |
| | | | | | |
| Gross value added as a percentage of | gross output | | % | 9 | 11 |
| | | | | | |
| Ratio of gross output to stocks | | | | 9.6 | 9.6 |
| | | | | | |
| Wages and salaries as a percentage of | f gross value added | | % | 38 | 37 |
| | 12.0 | | | | |
| Ratio of operatives to administrative | e, technical and clerical | | | 1012 | |
| employees | | | | 2.7 | 2.7 |
| Wages and salaries per administrative | , technical and elerical | | | | |
| employee | | | £ | 4,099 | 4,901 |
| | | | | | |
| Wages and salaries per operative | | | £ | 3,599 | 4,154 |
| | | | | | |
| Net capital expenditure per head | | | £ | 1,714 | 1,976 |
| | | | | | |
| Net capital expenditure as a percent | age of gross value adde | d | % | 18 | 17 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 699517 K6 Cdf 331 7/80 se notes give the main information needed for interpreting figures in the industry Business Monitors: more detailed rmation about the census is given in a separate Business itor PA 1001 (Introductory Notes) of the Report on the sis of Production, 1978.

ERAL INFORMATION

inges made for 1978

PA221

ne Census for 1978 is in line with similar inquiries being anducted in other member countries of the European Economic committee.

The census differed from earlier censuses in three respects. ampling was introduced for establishments employing 20 to 49 a sample of smaller units was selected. A new question on the leasing of capital assets was included for 1978 only. This will novide register information for use in related inquiries into leasing.

rion of information relating to individual undertakings 9(5)(b) of the Statistics of Trade Act 1947 states following provisions shall have effect with respect to any summary or other communication to the public of ation obtained under the foregoing provisions of this Act compiling any such report, summary or communication the mpetent authority shall so arrange it as to prevent any rticulars published therein from being identified as being articulars relating to any individual person or undertaking cept with the previous consent in writing of that person or the son carrying on that undertaking, as the case may be; but his provision shall not prevent the disclosure of the total antity or value of any articles produced, sold or delivered; so, vever, that before disclosing any such total the competent thority shall have regard to any representations made to em by any person who alleges that the disclosure thereof uld enable particulars relating to him or to an undertaking rried on by him to be deduced from the total disclosed". figure involved disclosure the contributor concerned was nes asked to give permission for its publication. In the ty of cases permission was given. When it was refused and contributors were not approached the figure has been ssed, either by combining it with other figures, or as in the al tables, by omitting the figure altogether.

wmbols used

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

not available

nil or less than half the final digit shown figures cannot be shown owing to the risk of disclosing information about individual enterprises. revised

Rounding of figures

gures in the tables have, where necessary, been rounded to the earest final digit. Where figures have been so rounded, the sum the constituent items may not always agree exactly with the stal shown.

dustrial classification

e United Kingdom Standard Industrial Classification (SIC) was st issued in 1948 and was subsequently revised in 1958 and 68. It exists to promote uniformity and comparability in the ficial statistics of the United Kingdom. The general principles lowed are those of the International Standard Industrial assification of all Economic Activities of the United Nations atistical Office but the United Kingdom SIC reflects the fanisation and structure of industry and trade as it exists in the nited Kingdom. The SIC is a classification by activity and is a commodity classification. However, an index of all commodity adings for which sales data are provided in the Quarterly Business onitors, is published in Business Monitor PQ 1000.

tistical units

tatistical unit for the purpose of the Census is the establishment is defined in the SIC as the smallest unit which can provide aformation normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg 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 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 (BSO) to ensure, by negotiating with respondents, that the return from an establishment does not cover local units in more than one of the countries of the United Kingdom.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchanting, transport, warehousing, for which they keep a separate set of accounts. 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 Business Monitor PA 1002) related establishments are combined. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments.

THE REGISTER

The register permits a questionnaire to be sent direct to the reporting establishment on which 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 information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act allows the latter to pass lists of businesses registered for VAT to the BSO. Where necessary details are sought directly from new businesses. Units which cease to trade are removed from the live register.

Coverage

In recent censuses returns have been required from all establishments employing 20 or more. For the 1978 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return. The Census has included for the first time a small sample (around 10 per cent) of units employing 11 to 19 to meet an EEC requirement to collect a limited range of data from smaller units every 5 years.

Regions

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government 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

Average number employed

Establishments were required to state the average number of persons on the payroll during the year of return. Separate figures were required for

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

Averages could be calculated from the 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. Full-time and part-time employees are included but outworkers (ie 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 "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 directors in receipt of a definite wage, salary or commission, managers 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 earners. They include operatives employed in 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 and to state whether any of the investment shown in cost of new building work, vehicles or plant and machinery included goods for letting out on hire or leasing.

(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 rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), 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 eg rent of buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom) 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, semimanufactured 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 fue electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinen or other capital items for the establishment's own use; of material for use by the establishment when working on goods supplied b

tomers; and of food, etc for any canteen covered by the ablishment's return. Transfers of goods to the establishment m another department of the same firm not covered by the ablishment's return are included at a cost corresponding to the mated selling value recorded by the other department. Amounts avable to transport firms or credited to the firm's own transport artment for delivery of materials are excluded, as are all hases of machinery and plant charged to capital account. hases of goods for merchanting or factoring have been ected separately since 1973. The values shown exclude VAT. v include, in addition to the actual purchase price, the value packaging material charged to the establishment. The value of ned goods or packaging material returned to suppliers and any te discounts are excluded. Materials purchased duty-paid are ided at their duty-paid value, less any drawback, rebate, etc. cost of transport is included only if it is included with the hase price in the firm's accounts. Imported goods are included their full delivered cost. If in the firm's accounts the transport mdocks or airport is not included in the cost of goods purchased. cost is entered at cif plus duty (if applicable). Leasing, ting and hire purchase charges are excluded.

and anods produced

les for the purposes of the annual censuses means deliveries on ale of goods made by establishments in the United Kingdom ered by the inquiry. Sales of goods made for these establishments outworkers or by other establishments from materials given out them and sales of waste products are included. New building work and machinery or other capital items produced by establishnents for hiring out or leasing are regarded as sales, the value uded in the return being that adopted in the establishments' hital asset accounts. Forward sales and canteen takings are excluded. sales in the period of the inquiry are included irrespective of en the goods were manufactured. Goods produced in one tablishment and transferred either to ancillary departments not aged in production for which there are separate accounts, or to ther establishment of the same firm not covered by the return, treated as sales by the producing establishment and valued as as possible as if they had been sold to an independent purchaser. ds transferred to wholesale or retail selling organisations for

ich separate accounts are kept are valued on the same basis. The value shown for sales is the "net selling value" defined as the ount (excluding VAT) charged to customers whether on an works or delivered basis, after any trade discounts and agents' hissions have been deducted. The cost of packing materials allowance for returnable cases is included. In industries where ducts attract Excise Duty the value stated is usually inclusive duty if sold duty-paid and exclusive of duty if sold in bond exported

peipts for work done and industrial services rendered

pures for work done represent the amount charged for work ied out on materials supplied by a customer and include repair ork. Within certain industries this heading covers a wide variety of vities, for example, within the food sector - butter packed on nission; within the textile industries - making up of garments. dressing and textile finishing; within printing and publishing paratory work on type-setting, block making and binding. Work ne is also significant in the electrical machinery and heavy eering industries, covering erection, installation and repair and ing work. Other activities within this heading include exploration rk, research and development, glass cutting and dressing and ning of timber

strial services rendered include repairs and maintenance, instaon work, and technical research and studies for other nisations

ital goods produced for establishments' own use

his includes all work of a capital nature carried out during the ar 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 vehicles 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 guarrying 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. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

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

Remuneration paid to outworkers

Employers' insurance and welfare contributions This item includes employers' contributions to national insurance under the Social Security Pensions Act, 1975 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.

Operating ratios

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate for the quantity shown in the denominator. These estimates cover all establishments classified to each industry. including not selected establishments and non-respondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to stock valuation, may affect comparability in some respects.

The remuneration paid to outworkers (ie 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 excluded.

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