



BOARD OF TRADE

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# Report on the Census of Production 1963

**40** Non-ferrous metals

LONDON: HER MAJESTY'S STATIONERY OFFICE  
FIVE SHILLINGS NET

BOARD OF TRADE

# Report on the Census of Production 1963

40 Non-ferrous metals

Presented by the Board of Trade to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo. 6 Cha. 39 Sec. 7)

**Capital Expenditure**

(1) *See building work.*

This represents the cost incurred during the year of new building and other new construction 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 the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms, own staff, and the cost of any newly constructed buildings purchased. The figures shown include any local charges, stamp duties, agents' commissions, etc.

**EMPLOYMENT**

These figures are based on the number of persons on the payroll (i.e. those 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) operatives (see below). Averages could be calculated from figures relating to each week of each quarter during the year of return in respect of the average number employed relative to the sum of these averages. These were also required to state the number of working proprietors (see below) whose establishments were included in total employment figures. Outworkers are excluded.

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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 1 of the Report on the Census of Production for 1963.)

### GENERAL INFORMATION

#### Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

#### Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. However, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses.

The principle of classification by major output was also normally followed in compiling the analysis by sub-divisions of an industry.

In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

### TERMS USED IN THE CENSUS REPORT

#### Average number employed

Firms 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) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in 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 fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

#### Employees

(i) Administrative, technical and clerical employees include 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. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.

(ii) Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

#### Capital Expenditure

(i) New building work.

This represents the cost incurred during the year of new building and other new 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 or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

# 40 Non-ferrous metals

This Report on the Non-ferrous Metals Industry relates to establishments engaged wholly or mainly in refining copper, smelting and refining lead, zinc, aluminium, magnesium and titanium, making copper, lead and zinc alloys (brass, bronze, pewter, etc.) and the production in these metals and their alloys of ingots, bars, billets, sheets, strip, foil, circles, sections, rods, pipes, tubes, castings, extrusions, drop forgings, etc., including all preliminary processes from smelting and refining onwards, but not wire drawing or the production of finished goods. The manufacture of ferro-alloys other than of spiegeleisen and ferro-manganese and the smelting, refining and melting of other non-ferrous metals, other than precious metals, are also included.

This industry corresponds to minimum list headings 321 and 322 in the Standard Industrial Classification (Consolidated edition, 1963).

There were no large establishments in this industry in Northern Ireland in 1958 or 1963.

### METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure.

In classifying returns to the sub-divisions of the industry shown in Table 2, those where combined sales of aluminium, copper, lead, tin, zinc, etc. manufactures were less than one-tenth of their sales of such metals in unwrought or partly wrought form were classified as 'Smelters and refiners' and all other returns were classified as 'Fabricators' and 'Founders' and allocated to the heading for the type of metal of which they sold most.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (ii), (iii) and (iv).



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TABLE 1 Industry summary: United Kingdom  
Estimates for all firms, 1958 and 1963 (a)

|  | Unit   | 1958    | 1963    |            |
|--|--|---------|---------|------------|
| Number of enterprises  | No.  | 915     | 919     |            |
| Number of establishments   | "  | 1,075   | 1,148   |            |
| Gross output   | £'000  | 565,266 | 752,656 |            |
| Net output   | "  | 139,517 | 203,066 |            |
| Net output per head  | £  | 1,090   | 1,491   |            |
| Sales and work done  | { goods produced and work done                     | £'000   | 524,460 | 700,937(b) |
|  | { merchanted goods and canteen takings             | "       | 35,878  | 48,193     |
| Purchases  | { materials for processing and packaging, and fuel | "       | 417,303 | 498,043    |
|  | { goods for merchanding and canteen purchases      | "       |         |            |
| Payments to other organisations  | { for work done on materials given out             | "       | 2,715   | 4,791      |
|  | { for transport                                    | "       | 5,580   | 5,770      |
| Stocks and work in progress  |  |         |         |            |
| Total stocks and work in progress  | { change during year                               | "       | + 4,977 | + 4,674    |
|  | { at end of year                                   | "       | 98,371  | 134,309    |
| Goods on hand for sale   | { change during year                               | "       | + 3,895 | - 1,579    |
|  | { at end of year                                   | "       | 25,454  | 31,602     |
| Work in progress   | { change during year                               | "       | + 1,233 | + 5,104    |
|  | { at end of year                                   | "       | 31,480  | 49,791     |
| Materials, stores and fuel   | { change during year                               | "       | - 151   | + 1,148    |
|  | { at end of year                                   | "       | 41,437  | 52,916     |
| Average number employed  | { total, including working proprietors             | Th.     | 128.0   | 136.2      |
|  | { operatives                                       | "       | 98.0    | 103.9      |
|  | { other employees (c)                              | "       | 29.8    | 31.3       |
| Wages and salaries   | { of operatives                                    | £'000   | 59,089  | 79,383     |
|  | { of other employees (c)                           | "       | 22,300  | 30,650     |
| Employers' contributions to National Insurance and private pension schemes, etc. (d) | "  | ..      | 8,036   |            |
| Capital expenditure (e)  |  |         |         |            |
| Total  | "  | ..      | 22,073  |            |
| New building work  | "  | 2,931   | 5,046   |            |
| Land and existing buildings (f)  | "  | ..      | 388     |            |
| Plant and machinery (f)  | "  | 10,185  | 15,669  |            |
| Vehicles (f)   | "  | 715     | 969     |            |

(a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 6 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 5 per cent.) A summary of the detailed returns received is given in Table 2.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(c) Administrative, technical and clerical employees.

(d) Including pensions and gratuities paid other than from pension funds.

(e) Excluding expenditure for establishments not yet in production.

(f) Acquisitions less disposals.

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom (a)

|   | Unit      | Sub-divisions of the industry (b)                |           |                   |            |        |        |
|---|-----------|--|-----------|-------------------|------------|--------|--------|
|   |           | Aluminium and aluminium alloys                   |           |                   |            |        |        |
|   |           | Smelters and refiners<br>01                      |           | Fabricators<br>02 |            |        |        |
|   |           | 1958   | 1963      | 1958              | 1963       |        |        |
| Number of enterprises (c)                                     | No.       | 9  | 9         | 27                | 29         |        |        |
| Number of establishments                                      | "         | 13   | 14        | 44                | 57         |        |        |
| Gross output  | £'000     | 13,655   | 11,460    | 99,955            | 145,184    |        |        |
| Net output  | "         | 2,445  | 2,100     | 31,896            | 50,107     |        |        |
| Net output per head   | £         | 1,174  | 1,668     | 989               | 1,399      |        |        |
| Sales and work done   | £'000     | 13,358   | 11,389(d) | 97,946            | 140,330(d) |        |        |
|   |           | merchanted goods and canteen takings             |           | "                 |            | 133    | "      |
| Sales of characteristic products                              | "         | 12,756   | 9,589     | 84,752            | 119,067    |        |        |
| Index of specialisation (f)                                   | Per cent. | 95   | 84        | 87                | 84         |        |        |
| Purchases   | £'000     | 11,199   | 8,691     | 65,711            | 88,077     |        |        |
|   |           | materials for processing and packaging, and fuel |           | "                 |            | 588    | "      |
| Payments to other organisations                               | "         | -  | 167       | 170               | 622        |        |        |
|   |           | for work done on materials given out             | "         | 215               | 128        | 1,244  | 1,496  |
| Stocks and work in progress                                   | "         | + 39   | + 75      | + 413             | + 299      |        |        |
|   |           | Goods on hand for sale                           | "         | 389               | 532        | 3,823  | 5,421  |
| Work in progress  | "         | + 125  | - 4       | + 261             | + 350      |        |        |
|   |           | change during year                               | "         | 408               | 27         | 7,816  | 10,050 |
| Materials, stores and fuel                                    | "         | + 205  | + 213     | - 932             | - 1,033    |        |        |
|   |           | change during year                               | "         | 1,706             | 1,077      | 7,448  | 14,141 |
| Average number employed                                       | No.       | 2,083  | 1,259     | 32,251            | 35,810     |        |        |
|   |           | total, including working proprietors             | "         | 1,501             | 985        | 25,122 | 27,014 |
|   |           | operatives                                       | "         | 582               | 271        | 7,129  | 8,790  |
| Wages and salaries  | £'000     | 993  | 774       | 15,425            | 21,985     |        |        |
|   |           | of operatives                                    | "         | 453               | 255        | 5,237  | 8,269  |
| Wages and salaries per head                                   | £         | 661  | 786       | 614               | 814        |        |        |
|   |           | of other employees (g)                           | "         | 779               | 941        | 735    | 941    |
| Employers' contributions to National Insurance (h)            | £'000     | ..   | 42        | ..                | 1,056      |        |        |
| Employers' contributions to private pension schemes, etc. (i) | "         | ..   | 23        | ..                | 1,054      |        |        |
| Capital expenditure (j)                                       | "         | 17   | 30        | 572               | 1,067      |        |        |
| New building work   | "         | ..   | + 5(k)    | ..                | 156        |        |        |
|   |           | Land and existing buildings                      | "         | ..                | ..         | 24     |        |
| Plant and machinery   | "         | 85   | 101       | 3,747             | 4,205      |        |        |
|   |           | acquisitions                                     | "         | 3                 | 5          | 81     | 202    |
| Vehicles  | "         | 20   | 43        | 125               | 248        |        |        |
|   |           | disposals  | "         | 7                 | 10         | 35     | 88     |

|   | Unit  | Sub-divisions of the industry (b)                |           |                                       |           |                   |            |                |          |       |       |
|---|-------|--|-----------|---------------------------------------|-----------|-------------------|------------|----------------|----------|-------|-------|
|   |       | Aluminium and aluminium alloys (continued)       |           | Copper, brass and other copper alloys |           |                   |            |                |          |       |       |
|   |       | Founders<br>03                                   |           | Smelters and refiners<br>11           |           | Fabricators<br>21 |            | Founders<br>22 |          |       |       |
|   |       | 1958   | 1963      | 1958                                  | 1963      | 1958              | 1963       | 1958           | 1963     |       |       |
|   |       | 74   | 87        | 23                                    | 28        | 82                | 89         | 54             | 32       |       |       |
|   |       | 91   | 109       | 27                                    | 41        | 115               | 133        | 64             | 36       |       |       |
|   |       | 29,162   | 40,435    | 39,822                                | 54,028    | 168,563           | 247,384    | 20,701         | 10,357   |       |       |
|   |       | 12,491   | 20,412    | 3,790                                 | 6,193     | 39,614            | 61,689     | 9,161          | 5,119    |       |       |
|   |       | 952  | 1,221     | 1,609                                 | 1,571     | 1,119             | 1,651      | 1,032          | 1,287    |       |       |
| Sales and work done   | £'000 | 28,233   | 40,397(d) | 35,544                                | 50,786(d) | 161,870           | 234,138(d) | 19,634         | 9,615(d) |       |       |
|   |       | merchanted goods and canteen takings             |           | "                                     |           | 884               |            | "              |          | 3,891 | "     |
| Sales of characteristic products                              | "     | 22,187   | 31,315    | 34,138                                | 46,555    | 130,785           | 188,928    | 12,661         | 5,917    |       |       |
| Index of specialisation (f)                                   | "     | 79   | 80        | 96                                    | 91        | 81                | 80         | 64             | 61       |       |       |
| Purchases   | £'000 | 15,786   | 17,971    | 35,545                                | 46,439    | 128,608           | 173,064    | 10,678         | 4,487    |       |       |
|   |       | materials for processing and packaging, and fuel |           | "                                     |           | 1,269             |            | "              |          | 2,651 | "     |
| Payments to other organisations                               | "     | 385  | 681       | 156                                   | 121       | 1,038             | 1,200      | 409            | 205      |       |       |
|   |       | for work done on materials given out             | "         | 183                                   | 234       | 538               | 488        | 1,393          | 1,375    | 181   | 141   |
| Stocks and work in progress                                   | "     | + 41   | - 13      | + 227                                 | + 448     | + 1,244           | + 115      | + 27           | + 7      |       |       |
|   |       | Goods on hand for sale                           | "         | 274                                   | 599       | 1,292             | 2,523      | 8,013          | 7,705    | 406   | 162   |
| Work in progress  | "     | + 4  | + 51      | + 160                                 | + 9       | + 443             | + 2,779    | - 197          | + 133    |       |       |
|   |       | change during year                               | "         | 769                                   | 1,195     | 339               | 497        | 10,967         | 15,713   | 1,350 | 768   |
| Materials, stores and fuel                                    | "     | - 317  | + 132     | + 207                                 | + 1,864   | + 2,089           | - 30       | - 272          | + 135    |       |       |
|   |       | change during year                               | "         | 1,569                                 | 1,708     | 2,020             | 4,904      | 12,663         | 14,346   | 1,843 | 919   |
| Average number employed                                       | No.   | 13,122   | 16,717    | 2,355                                 | 3,943     | 35,401            | 37,355     | 8,880          | 3,978    |       |       |
|   |       | total, including working proprietors             | "         | 10,875                                | 13,908    | 1,840             | 3,143      | 26,594         | 28,638   | 6,788 | 3,034 |
|   |       | operatives                                       | "         | 2,245                                 | 2,760     | 515               | 790        | 8,801          | 8,673    | 2,089 | 931   |
| Wages and salaries  | £'000 | 6,835  | 10,372    | 1,245                                 | 2,422     | 15,325            | 22,447     | 4,219          | 1,965    |       |       |
|   |       | of operatives                                    | "         | 1,669                                 | 2,522     | 493               | 854        | 6,108          | 8,900    | 1,610 | 850   |
| Wages and salaries per head                                   | £     | 628  | 746       | 677                                   | 770       | 576               | 784        | 622            | 648      |       |       |
|   |       | of other employees (g)                           | "         | 743                                   | 914       | 957               | 1,081      | 694            | 1,026    | 771   | 913   |
| Employers' contributions to National Insurance (h)            | £'000 | ..   | 480       | ..                                    | 121       | ..                | 1,141      | ..             | 116      |       |       |
| Employers' contributions to private pension schemes, etc. (i) | "     | ..   | 219       | ..                                    | 85        | ..                | 1,434      | ..             | 57       |       |       |
| Capital expenditure (j)                                       | "     | 246  | 152       | 58                                    | 189       | 728               | 1,628      | 151            | 104      |       |       |
| New building work   | "     | ..   | 62        | ..                                    | - 1(k)    | ..                | 141        | ..             | 437(k)   |       |       |
|   |       | Land and existing buildings                      | "         | ..                                    | 32        | ..                | 181        | ..             | ..       |       |       |
| Plant and machinery   | "     | 638  | 1,183     | 127                                   | 323       | 2,662             | 4,961      | 484            | 656      |       |       |
|   |       | acquisitions                                     | "         | 44                                    | 26        | 6                 | 14         | 159            | 233      | 11    | 8     |
| Vehicles  | "     | 111  | 102       | 82                                    | 79        | 284               | 490        | 70             | 44       |       |       |
|   |       | disposals  | "         | 40                                    | 42        | 18                | 23         | 76             | 115      | 24    | 16    |

Continued on next page

TABLE 2 (continued)

|   | Unit                | Sub-divisions of the industry (b)                |        |                        |        |           |
|---|---------------------|--|--------|------------------------|--------|-----------|
|   |                     | Lead, zinc and their alloys                      |        |                        |        |           |
|   |                     | Smelters and refiners<br>12                      |        | Lead fabricators<br>23 |        |           |
|   |                     | 1958   | 1963   | 1958                   | 1963   |           |
| Number of enterprises (c)                                     | No.                 | 12   | 12     | 17                     | 15     |           |
| Number of establishments                                      | "                   | 17   | 21     | 24                     | 24     |           |
| Gross output  | £'000               | 51,869   | 61,848 | 14,170                 | 15,383 |           |
| Net output  | "                   | 5,509  | 8,607  | 3,734                  | 3,072  |           |
| Net output per head   | £                   | 1,220  | 1,818  | 1,999                  | 1,538  |           |
| Sales and work done   | £'000               | goods produced and work done                     | 51,154 | 56,444(d)              | 12,275 | 13,247(d) |
|   |                     | merchanted goods and canteen takings             | 1,236  | 5,505                  | 1,987  | 2,136     |
| Sales of characteristic products                              | "                   | 46,359   | 46,252 | 5,131                  | 5,978  |           |
| Index of specialisation (f)                                   | Per cent.           | 91   | 81     | 42                     | 45     |           |
| Purchases   | £'000               | materials for processing and packaging, and fuel | 45,355 | 49,451                 | 10,347 | 10,371    |
|   |                     | goods for merchandising and canteen purchases    |        | 4,108                  |        | 2,010     |
| Payments to other organisations                               | "                   | for work done on materials given out             | 5      | 9                      | 5      | 10        |
|   |                     | for transport                                    | 583    | 651                    | 162    | 146       |
| Stocks and work in progress                                   |                     |  |        |                        |        |           |
| Goods on hand for sale  | "                   | change during year                               | - 113  | - 292                  | - 48   | + 52      |
|   |                     | at end of year                                   | 2,480  | 1,799                  | 621    | 829       |
| Work in progress  | "                   | change during year                               | - 408  | + 191                  | - 44   | - 52      |
|   |                     | at end of year                                   | 2,417  | 3,795                  | 316    | 528       |
| Materials, stores and fuel                                    | "                   | change during year                               | - 416  | + 977                  | + 77   | + 226     |
|   |                     | at end of year                                   | 3,013  | 4,057                  | 1,041  | 1,140     |
| Average number employed                                       | No.                 | 4,517  | 4,734  | 1,868                  | 1,997  |           |
|   | operatives          | 3,210  | 3,180  | 1,307                  | 1,384  |           |
|   | other employees (g) | 1,305  | 1,552  | 557                    | 607    |           |
| Wages and salaries  | £'000               | of operatives                                    | 2,046  | 2,538                  | 740    | 985       |
|   |                     | of other employees (g)                           | 1,132  | 1,722                  | 478    | 552       |
| Wages and salaries per head                                   | £                   | operatives                                       | 637    | 798                    | 566    | 712       |
|   |                     | other employees (g)                              | 867    | 1,110                  | 858    | 910       |
| Employers' contributions to National Insurance (h)            | £'000               | ..   | 148    | ..                     | 59     |           |
| Employers' contributions to private pension schemes, etc. (i) | "                   | ..   | 269    | ..                     | 63     |           |
| Capital expenditure (j)                                       |                     |  |        |                        |        |           |
| New building work   | "                   | 53   | 119    | 84                     | 9      |           |
| Land and existing buildings                                   | "                   | acquisitions                                     | ..     | 4(k)                   | ..     |           |
|   |                     | disposals  | ..     | ..                     | 1      |           |
| Plant and machinery   | "                   | acquisitions                                     | 335    | 512                    | 102    | 110       |
|   |                     | disposals  | 2      | 12                     | 10     | 7         |
| Vehicles  | "                   | acquisitions                                     | 81     | 114                    | 57     | 64        |
|   |                     | disposals  | 20     | 35                     | 16     | 22        |

For notes to this table - see page 40/9

|   | Unit                | Sub-divisions of the industry (b)       |           |  |           |  |           | Total   |            |         |        |       |         |         |
|---|---------------------|---|-----------|--|-----------|--|-----------|---------|------------|---------|--------|-------|---------|---------|
|   |                     | Lead, zinc and their alloys (continued) |           | Smelters and refiners of other metals, except magnesium, titanium and their alloys |           | Other smelters, refiners, fabricators and founders |           |         |            |         |        |       |         |         |
|   |                     | Zinc die casters<br>26                  |           | 13   |           | 04, 25 and 27                                      |           | 1958    | 1963       |         |        |       |         |         |
|   |                     | 1958                                    | 1963      | 1958   | 1963      | 1958   | 1963      |         |            |         |        |       |         |         |
|   |                     | 26                                      | 23        | 16   | 17        | 26   | 25        | 334     | 328        |         |        |       |         |         |
|   |                     | 34                                      | 35        | 21   | 23        | 31   | 31        | 481     | 524        |         |        |       |         |         |
|   |                     | 8,914                                   | 13,129    | 49,091   | 82,573    | 41,082   | 28,923    | 536,984 | 710,706    |         |        |       |         |         |
|   |                     | 5,135                                   | 8,279     | 7,631  | 16,771    | 11,133   | 9,401     | 132,537 | 191,748    |         |        |       |         |         |
|   |                     | 870                                     | 1,004     | 1,378  | 2,110     | 1,152  | 1,424     | 1,090   | 1,491      |         |        |       |         |         |
|   |                     | 8,625                                   | 12,939(d) | 31,027   | 66,087(d) | 38,553   | 28,500(d) | 498,219 | 661,869(d) |         |        |       |         |         |
|   |                     | 219                                     | 146       | 16,540   | 16,774    | 1,426  | 1,002     | 33,893  | 45,507     |         |        |       |         |         |
|   |                     | 6,937                                   | 10,934    | 23,025   | 55,182    | (e)  | (e)       | (e)     | (e)        |         |        |       |         |         |
|   |                     | 80                                      | 85        | 74   | 83        | ..   | ..        | 93      | 94         |         |        |       |         |         |
| Purchases   | £'000               | 3,540                                   | 4,249     | 40,869   | 49,896    | 28,785   | 17,587    | 396,423 | 470,284    |         |        |       |         |         |
|   |                     |   |           |  |           |  |           |         |            | 56      | 13,777 | 911   | 39,786  |         |
| Payments to other organisations                               | "                   | for work done on materials given out    | 5         | 9  | 5         | 10   | 228       | 527     | 51         | 763     | 131    | 219   | 2,579   | 4,524   |
|   |                     | for transport                           | 583       | 651  | 162       | 146  | 46        | 72      | 295        | 476     | 461    | 242   | 5,301   | 5,448   |
| Goods on hand for sale  | "                   | change during year                      | - 113     | - 292  | - 48      | + 52   | + 62      | - 38    | + 1,651    | - 1,451 | + 156  | - 694 | + 3,700 | - 1,491 |
|   |                     | at end of year                          | 2,480     | 1,799  | 621       | 829  | 243       | 314     | 5,018      | 7,679   | 1,622  | 2,278 | 24,181  | 29,841  |
| Work in progress  | "                   | change during year                      | - 408     | + 191  | - 44      | - 52   | + 8       | + 82    | - 127      | + 1,164 | + 947  | + 116 | + 1,172 | + 4,820 |
|   |                     | at end of year                          | 2,417     | 3,795  | 316       | 528  | 239       | 444     | 836        | 12,276  | 4,447  | 1,724 | 29,905  | 47,016  |
| Materials, stores and fuel                                    | "                   | change during year                      | - 416     | + 977  | + 77      | + 226  | + 36      | + 53    | - 245      | - 891   | - 574  | - 562 | - 143   | + 1,084 |
|   |                     | at end of year                          | 3,013     | 4,057  | 1,041     | 1,140  | 340       | 491     | 4,466      | 4,167   | 3,253  | 3,016 | 39,363  | 49,967  |
| Average number employed                                       | No.                 | 5,910                                   | 8,244     | 5,534  | 7,948     | 9,667  | 6,601     | 121,588 | 128,586    |         |        |       |         |         |
|   | operatives          | 5,140                                   | 7,331     | 3,632  | 5,303     | 7,204  | 4,795     | 93,213  | 98,715     |         |        |       |         |         |
|   | other employees (g) | 770                                     | 892       | 1,902  | 2,643     | 2,463  | 1,791     | 28,358  | 29,700     |         |        |       |         |         |
| Wages and salaries  | £'000               | of operatives                           | 2,640     | 3,916  | 2,325     | 4,392  | 4,422     | 3,622   | 56,216     | 75,417  |        |       |         |         |
|   |                     | of other employees (g)                  | 550       | 819  | 1,596     | 2,633  | 1,889     | 1,741   | 21,216     | 29,119  |        |       |         |         |
| Wages and salaries per head                                   | £                   | operatives                              | 514       | 534  | 640       | 828  | 614       | 755     | 603        | 764     |        |       |         |         |
|   |                     | other employees (g)                     | 715       | 918  | 839       | 996  | 767       | 972     | 748        | 980     |        |       |         |         |
| Employers' contributions to National Insurance (h)            | £'000               | ..                                      | 202       | ..   | 261       | ..   | 200       | ..      | 3,826      |         |        |       |         |         |
| Employers' contributions to private pension schemes, etc. (i) | "                   | ..                                      | 64        | ..   | 286       | ..   | 254       | ..      | 3,808      |         |        |       |         |         |
| Capital expenditure (j)                                       |                     |   |           |  |           |  |           |         |            |         |        |       |         |         |
| New building work   | "                   | 34                                      | *         | 347  | 363       | 494  | *         | 2,785   | 4,765      |         |        |       |         |         |
| Land and existing buildings                                   | "                   | acquisitions                            | ..        | 10   | ..        | 1  | ..        | 854     |            |         |        |       |         |         |
|   |                     | disposals                               | ..        | 9  | ..        | 179(k)   | 15        | 487     |            |         |        |       |         |         |
| Plant and machinery   | "                   | acquisitions                            | 386       | 430  | 710       | 1,054  | 744       | 1,876   | 10,021     | 15,410  |        |       |         |         |
|   |                     | disposals                               | 9         | 13   | 15        | 38   | 4         | 56      | 345        | 615     |        |       |         |         |
| Vehicles  | "                   | acquisitions                            | 35        | 43   | 41        | 28   | 56        | 51      | 961        | 1,306   |        |       |         |         |
|   |                     | disposals                               | 4         | 11   | 17        | 13   | 25        | 17      | 282        | 391     |        |       |         |         |

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in the industry (a) | Enterprises | Establishments | Average number employed (a) | Gross output | Net output | Net output per head | Capital expenditure (b) | Total value of stocks and work in progress at end of year |
|---|-------------|----------------|-----------------------------|--------------|------------|---------------------|-------------------------|---|
|   | Number      | Number         | Number                      | £'000        | £'000      | £                   | £'000                   | £'000   |
| 25-49   | 90          | 96             | 3,341                       | 14,702       | 4,482      | 1,342               | 260                     | 1,774   |
| 50-99   | 95          | 122            | 6,815                       | 41,209       | 10,149     | 1,489               | 781                     | 4,150   |
| 100-199   | 63          | 87             | 8,716                       | 45,026       | 11,421     | 1,310               | 1,295                   | 4,835   |
| 200-299   | 18          | 32             | 4,387                       | 28,550       | 6,737      | 1,536               | 806                     | 4,894   |
| 300-399   | 13          | 22             | 4,594                       | 14,583       | 6,150      | 1,339               | 454                     | 1,879   |
| 400-499   | 8           | 12             | 3,556                       | 34,483       | 5,859      | 1,648               | 552                     | 4,297   |
| 500-749   | 10          | 16             | 5,857                       | 35,711       | 10,500     | 1,793               | 515                     | 6,761   |
| 750-999   | 6           | 11             | 5,203                       | 25,727       | 8,464      | 1,627               | 927                     | 2,479   |
| 1,000-1,499   | 7           | 17             | 8,111                       | 51,229       | 13,135     | 1,619               | 872                     | 7,551   |
| 1,500-1,999   | 4           | 10             | 7,121                       | 21,978       | 10,214     | 1,434               | 2,370                   | 6,960   |
| 2,000-2,999   | 4           | 23             | 10,015                      | 53,693       | 12,274     | 1,226               | 1,706                   | 8,480   |
| 3,000-4,999   | 5           | 23             | 20,009                      | 121,026      | 29,523     | 1,476               | 2,098                   | 29,950  |
| 5,000 and over  | 5           | 53             | 40,861                      | 222,790      | 62,839     | 1,538               | 8,207                   | 42,813  |
| Total   | 328         | 524            | 128,586                     | 710,706      | 191,748    | 1,491               | 20,843                  | 126,823   |

(ii) Employees, wages and salaries, and employers' contributions

Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in the industry (a) | Employees  |            | Wages and salaries |            | Employers' contributions |                                   | Wages and salaries per head |            |
|---|------------|------------|--------------------|------------|--------------------------|-----------------------------------|-----------------------------|------------|
|   | Operatives | Others (c) | Operatives         | Others (c) | National Insurance (d)   | Private pension schemes, etc. (e) | Operatives                  | Others (c) |
|   | Number     | Number     | £'000              | £'000      | £'000                    | £'000                             | £                           | £          |
| 25-49   | 2,714      | 553        | 1,778              | 553        | 98                       | 27                                | 655                         | 1,000      |
| 50-99   | 5,583      | 1,171      | 3,755              | 1,192      | 204                      | 87                                | 673                         | 1,018      |
| 100-199   | 7,148      | 1,547      | 5,065              | 1,650      | 262                      | 149                               | 709                         | 1,067      |
| 200-299   | 3,425      | 961        | 2,553              | 980        | 127                      | 90                                | 745                         | 1,019      |
| 300-399   | 3,692      | 897        | 2,749              | 785        | 134                      | 73                                | 745                         | 875        |
| 400-499   | 2,755      | 801        | 1,936              | 733        | 105                      | 79                                | 703                         | 915        |
| 500-749   | 4,602      | 1,254      | 3,332              | 1,235      | 167                      | 121                               | 724                         | 985        |
| 750-999   | 4,106      | 1,097      | 3,585              | 1,064      | 162                      | 148                               | 873                         | 970        |
| 1,000-1,499   | 6,083      | 2,028      | 4,721              | 1,584      | 233                      | 109                               | 776                         | 781        |
| 1,500-1,999   | 5,315      | 1,806      | 3,947              | 1,755      | 211                      | 173                               | 743                         | 972        |
| 2,000-2,999   | 7,504      | 2,508      | 5,327              | 2,692      | 309                      | 390                               | 710                         | 1,073      |
| 3,000-4,999   | 15,303     | 4,706      | 11,689             | 4,363      | 557                      | 490                               | 764                         | 927        |
| 5,000 and over  | 30,485     | 10,371     | 24,980             | 10,533     | 1,256                    | 1,871                             | 819                         | 1,016      |
| Total   | 98,715     | 29,700     | 75,417             | 29,119     | 3,826                    | 3,808                             | 764                         | 980        |

(a) Including working proprietors.

(b) Acquisitions less disposals.

(c) Administrative, technical and clerical employees.

(d) Including both flat rate and graduated contributions.

(e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £527,000.

TABLE 4 Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a)

| Ages        | Males     | Females   | All employees |
|-------------|-----------|-----------|---------------|
|             | Per cent. | Per cent. | Per cent.     |
| Under 18    | 2         | 2         | 4             |
| 18 and over | 79        | 17        | 96            |
| All ages    | 81        | 19        | 100           |

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

## Footnotes to Table 2.

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns, which account for 2 per cent. of the employment shown for 1963 and 3 per cent. for 1958.

|                          |           |       |
|--------------------------|-----------|-------|
|                          | 1958      | 1963  |
| Number of firms          | 589       | 598   |
| Average number employed: |           |       |
| Working proprietors      | } 6,249 { | 835   |
| Other persons employed   |           | 5,548 |

(b) The method of classifying returns to sub-divisions of the industry is explained in the introduction to this report; the characteristic products of each sub-division are identified in Table 5.

(c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.

(d) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(e) Characteristic products relate only to specific sub-divisions of the industry.

(f) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. Where appropriate, the denominator includes the value of merchant goods and canteen takings. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(g) Administrative, technical and clerical employees.

(h) Including both flat rate and graduated contributions.

(i) Including pensions and gratuities paid other than from pension funds.

(j) Excluding expenditure for establishments not yet in production.

(k) Acquisitions less disposals.

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

| Industry sub-division (a) | 1958  |                           | 1963                   |              |                |              |        |
|---------------------------|---|---------------------------|------------------------|--------------|----------------|--------------|--------|
|                           | Quantity  | Value                     | Quantity               | Value        | Enterprises    | Entries      |        |
|                           | Th. tons  | £'000                     | Th. tons               | £'000        | Number         | Number       |        |
| 01                        | Aluminium and aluminium alloys  |                           |                        |              |                |              |        |
| 01                        | Virgin aluminium ingots and notch bars  | 8.9                       | 1,769                  | 14.0         | 2,595          | *            | *      |
| 01                        | Virgin based aluminium alloy ingots, notch bars and sticks                    | 12.8                      | 2,525                  | 10.2         | 1,875          | 9            | 10     |
| 01                        | Secondary based aluminium and aluminium alloy ingots, notch bars and sticks   | 78.0                      | 13,332                 | 122          | 17,997         | 16           | 19     |
| 02                        | Blocks, slabs and billets   | 20.3                      | 3,805                  | 27.7         | 5,378          | *            | 7      |
| 02                        | Wire bars   |                           |                        | 3.6          | 720            | *            | *      |
| 02                        | Plates, sheet and strip (flat or in coil) exceeding 0.006 inch in thickness   | Pure                      |                        |              |                |              |        |
|                           | All forms other than corrugated   | 78.8                      | 23,693                 | 94.6         | 27,160         | 10           | 16     |
|                           | Corrugated  | 5.6                       | 1,396                  | 5.6          | 1,469          | *            | *      |
|                           | Alloy   |                           |                        |              |                |              |        |
|                           | All forms other than corrugated   | 30.0                      | 11,659                 | 54.0         | 21,083         | 9            | 13     |
|                           | Corrugated  | 3.2                       | 951                    |              |                |              |        |
| 02                        | Blanks, circles, discs and slugs exceeding 0.006 inch in thickness            | Pure                      |                        |              |                |              |        |
|                           | Pure  | 15.8                      | 5,042                  | 20.4         | 6,637          | 8            | 11     |
|                           | Alloy   | 1.0                       | 342                    | ..           | 761            | 5            | 9      |
| 02                        | Foil (rolled material not exceeding 0.006 inch in thickness)                  | 20.5                      | 11,194                 | 21.8         | 12,001         | 8            | 9      |
| 02                        | Bars (other than notch bars and wire bars), rods, angles, shapes and sections | Pure                      |                        |              |                |              |        |
|                           | Pure  | 10.9                      | 2,936                  | 13.1         | 4,826          | 11           | 15     |
|                           | Alloy   | 29.4                      | 11,463                 | 42.1         | 15,637         | 11           | 14     |
| 02                        | Tubes   | Extruded                  |                        |              |                |              |        |
|                           | Pure  | 1.3                       | 571                    | 1.7          | 727            | 8            | 8      |
|                           | Alloy   | ..                        | 682                    | 2.9          | 1,140          | 12           | 13     |
|                           | Drawn   |                           |                        |              |                |              |        |
|                           | Pure  | 0.8                       | 496                    | ..           | 1,932          | 8            | 8      |
|                           | Alloy   | 5.6                       | 3,130                  | 4.0          | 2,180          | 9            | 10     |
| 02                        | Collapsible tubes of aluminium  | Th. gross<br>786<br>1,452 | Th. cwt.<br>11.7<br>.. | 949<br>1,696 | 1,580<br>..    | 1,922<br>911 | 6<br>7 |
| 03                        | Castings  | Th. tons                  |                        |              |                |              |        |
|                           | Sand  | 9.7                       | 6,037                  | 10.4<br>..   | 6,515<br>1,253 | 123          | 129    |
|                           | Gravity die   | 32.6                      | 12,321                 | 48.4         | 17,974         | 72           | 76     |
|                           | Pressure die  | 12.8                      | 6,466                  | 22.9         | 11,017         | 53           | 56     |
|                           | Unclassified  | 3.3<br>..                 | 1,589<br>756           | 1.3<br>..    | 625<br>133     | 12           | 12     |

TABLE 5 (continued)

| Industry sub-division (a) | 1958  |           | 1963                             |           |                |              |     |       |    |    |
|---------------------------|---|-----------|----------------------------------|-----------|----------------|--------------|-----|-------|----|----|
|                           | Quantity  | Value     | Quantity                         | Value     | Enterprises    | Entries      |     |       |    |    |
|                           | Th. tons  | £'000     | Th. tons                         | £'000     | Number         | Number       |     |       |    |    |
|                           | Aluminium and aluminium alloys (continued)  |           |                                  |           |                |              |     |       |    |    |
| 02                        | Forgings and stampings  | 3.6       | 4,628                            | 4.2       | 4,677          | 17           | 17  |       |    |    |
| 02                        | Powder  | 1.4       | 384                              | 2.2       | 579            | 5            | 5   |       |    |    |
| 02                        | Paste   | 2.6       | 659                              | 2.8       | 685            | *            | *   |       |    |    |
| 02                        | Other manufactures of aluminium and aluminium alloys not elsewhere specified                                    | 1.1<br>.. | 551(b)<br>1,656                  | 4.2<br>.. | 2,774<br>2,556 | 47           | 53  |       |    |    |
|                           | Total aluminium and aluminium alloys and manufactures thereof   |           | 132,678                          | 175,738   | ..             | ..           |     |       |    |    |
| 04                        | Magnesium and magnesium alloys  |           |                                  |           |                |              |     |       |    |    |
|                           | Ingots, notch bars, sticks, slabs and billets   |           | 146                              | 2,015     | ..             | 1,863        | *   | *     |    |    |
|                           | Castings  |           | 39.6                             | 2,906     | 28.8           | 2,400        | 6   | 8     |    |    |
|                           | Sheets, strip extrusions and forgings   |           | 37.4                             | 1,757     | 41.9           | 2,454        | 5   | 5     |    |    |
|                           | Other manufactures of magnesium and magnesium alloys not elsewhere specified                                    |           |                                  |           | 28.2           | 769          | 5   | 5     |    |    |
|                           | Total magnesium and magnesium alloys and manufactures thereof   |           | 6,678                            | 7,487     | ..             | ..           |     |       |    |    |
| 04                        | Titanium and titanium alloys  |           |                                  |           |                |              |     |       |    |    |
|                           | Plates, sheet and strip   |           | ..                               | 1,580     | 12.1           | 1,948        | *   | *     |    |    |
|                           | Other manufactures, including powder  |           | 5.4                              | 3,339     | 5.5<br>..      | 2,079<br>834 | 8   | 9     |    |    |
|                           | Total titanium and titanium alloys  |           | 4,919                            | 4,861     | ..             | ..           |     |       |    |    |
| 13                        | Antimony, regulus and refined   |           | Th. tons                         | (c)       | 3.3            | 748          | *   | *     |    |    |
| 13                        | Bismuth metal (excluding alloys of bismuth)   |           | 0.6                              | 1,116(d)  | 0.8            | 1,447        | *   | *     |    |    |
|                           | Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) |           |                                  |           |                |              |     |       |    |    |
| 11                        | Ingots, blocks, slabs, billets, bars (including wire bars), other refinery shapes and cast strip                |           | 42.4                             | 6,784     | 78.9           | 15,282       | 33  | 44    |    |    |
|                           | Brass including manganese bronze  |           | 66.0                             | 12,553    | 56.6           | 12,943       | 25  | 29    |    |    |
| 11                        | Direct castings not included above  |           | Brass including manganese bronze |           |                |              | 3.9 | 1,867 | 25 | 26 |
|                           | Other   |           | (e)                              | {         | 4.3<br>..      | 2,301<br>592 | {   | 24    | 25 |    |

Continued on next page



TABLE 5 (continued)

| Industry sub-division (a) | 1958   |       | 1963     |          |             |         |     |
|---------------------------|--|-------|----------|----------|-------------|---------|-----|
|                           | Quantity   | Value | Quantity | Value    | Enterprises | Entries |     |
|                           | Th. tons   | £'000 | Th. tons | £'000    | Number      | Number  |     |
| 21                        | Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) (continued)                                |       |          |          |             |         |     |
| 21                        | Plates, sheets, foil, strip, discs and circles   | 66.4  | 16,802   | 82.6     | 24,308      | 33      | 40  |
| 21                        | Round brass rods   | 86.7  | 16,865   | 110      | 25,466      | 14      | 20  |
| 21                        | Shapes and angles  | 22.5  | 5,665    | 19.5     | 5,670       | 13      | 17  |
| 21                        | Other rods, sections and wire not in coils   | 12.0  | 3,102    | 9.0      | 3,523       | 11      | 16  |
|                           | Castings, pressings and stampings  |       |          |          |             |         |     |
| 22                        | Machined castings  | 17.4  | 8,308    | 7.7      | 4,470       | 57      | 60  |
|                           |  | ..    | 1,048    | ..       | 823         |         |     |
| 22                        | Rough castings sold as such  | 17.2  | 8,059    | 7.2      | 3,456       | 90      | 94  |
| 22                        | Unclassified castings of brass and other copper alloys   | 0.5   | 231      | ..       | 171         | *       | *   |
|                           |  | ..    | 105      |          |             |         |     |
| 21                        | Stampings and pressings which are the products of drop stamping or hot pressing  | 19.0  | 8,181    | 20.8     | 8,367       | 43      | 49  |
|                           |  |       | ..       | 2,147    | ..          |         |     |
| 21                        | Pressings in sheet metal   |       |          | 2.2      | 1,918       | 117     | 117 |
|                           |  |       |          | ..       | 1,793       |         |     |
| 21                        | Tubes  |       |          |          |             |         |     |
|                           | Solid drawn of circular section  | 15.7  | 6,438    | 22.4     | 10,633      | 19      | 22  |
|                           | Other  | 0.4   | 164      | 6.5      | 2,404       | 19      | 19  |
|                           |  |       |          | ..       | 335         |         |     |
| 21                        | Powder of brass and other copper alloys  |       | (c)      | ..       | 1,197       | *       | *   |
| 21                        | Other manufactures of brass and other copper alloys, not elsewhere specified   | 0.8   | 332      | 8.8      | 3,714       | 48      | 51  |
|                           |  | ..    | 2,486    | ..       | 1,442       |         |     |
|                           | Total brass and other copper alloys and manufactures thereof   |       | 99,270   |          | 134,701     | ..      | ..  |
| 13                        | Cadmium  | ..    | 199      | Th. lb.  | 230         | 6       | 7   |
|                           |  |       |          | 264      | 1,117       |         |     |
|                           | Copper   |       |          |          |             |         |     |
| 11                        | Unwrought: ingots, blocks, slabs, ingot bars, wire bars, billets, cakes, cathodes and anodes including rough copper of 94 per cent. copper content or over |       |          | Th. tons |             |         |     |
|                           | Fire refined   | 122   | 24,270   | 159      | 28,384      | 7       | 12  |
|                           | Electrolytic   | ..    | 1,973    | 33.5     | 7,954       | 8       | 10  |
|                           | Other and unclassified   | 7.4   | 1,495    | 12.8     | 3,096       | 6       | 7   |
|                           |  | ..    | 1,340    |          |             |         |     |
| 21                        | High conductivity strip  | 31.6  | 9,293    | 33.3     | 12,276      | 16      | 19  |
| 21                        | Plates, sheets or strip (other than high conductivity)   |       |          |          |             |         |     |
|                           | 3/8 inch thick and over  | 4.3   | 1,135    | 4.4      | 1,346       | 6       | 8   |
|                           | Other sheets, strip, foil, discs and circles   | 32.7  | 9,574    | 42.4     | 14,238      | 20      | 25  |

TABLE 5 (continued)

| Industry sub-division (a) | 1958  |          | 1963     |          |             |         |    |
|---------------------------|---|----------|----------|----------|-------------|---------|----|
|                           | Quantity  | Value    | Quantity | Value    | Enterprises | Entries |    |
|                           | Th. tons  | £'000    | Th. tons | £'000    | Number      | Number  |    |
| 21                        | Copper (continued)  |          |          |          |             |         |    |
|                           | Rods, sections, shapes and angles, and wire not in coils              |          |          |          |             |         |    |
|                           | Wire rods   |          |          |          |             |         |    |
|                           | High conductivity   | 166      | 35,746   | 123      | 31,953      | 12      | 13 |
|                           | Other   | 0.7      | 188      | 0.4      | 141         | *       | *  |
|                           | Shapes and angles   | 4.6      | 1,712    | 2.0      | 1,066       | 5       | 7  |
|                           | Other rods, sections and wire not in coils                            |          |          |          |             |         |    |
|                           | Rolled  |          |          |          |             |         |    |
|                           | Extruded  | 13.4     | 3,213    | 52.3     | 13,771      | *       | 5  |
|                           | Unclassified (f)  | 2.4      | 827      | 4.0      | 1,380       | 8       | 12 |
|                           |   | 45.5     | 10,057   | 2.5      | 699         | *       | *  |
| 21                        | Tube shells   | 4.4      | 1,103    | 24.8     | 5,598       | 10      | 13 |
| 21                        | Tubes   |          |          |          |             |         |    |
|                           | Solid drawn of circular section                                       |          |          |          |             |         |    |
|                           | Other   | 44.1     | 14,562   | 77.4     | 29,584      | 19      | 25 |
|                           |   | ..       | 228      | 0.4      | 259         | 9       | 9  |
|                           |   |          |          | ..       | 165         |         |    |
| 21                        | Copper castings other than engineers' and mechanics' goods, etc.      | 1.4      | 512      | ..       | 464         | 11      | 11 |
|                           |   | ..       | 54       |          |             |         |    |
| 21                        | Copper powder   |          | (c)      | 0.8      | 280         | *       | *  |
| 21                        | Other manufactures of copper not elsewhere specified                  | 0.4      | 513      | 2.5      | 1,071       | 30      | 30 |
|                           |   | ..       | 882      | ..       | 556         |         |    |
|                           | Total copper and manufactures thereof                                 |          | 118,677  |          | 154,283     | ..      | .. |
|                           | Lead and lead alloys and laminated lead                               |          |          |          |             |         |    |
| 12                        | Refined lead unwrought in pigs, ingots, blocks, bars, slabs and cakes | 108      | 8,326    | 171      | 10,912      | 22      | 29 |
|                           |   | Th. cwt. |          | Th. cwt. |             |         |    |
| 12                        | Antimonial and tin/lead alloys unwrought                              | 934      | 4,861    | 916      | 3,786       | 13      | 16 |
|                           |   | Th. tons |          | Th. tons |             |         |    |
| 23                        | Sheet   | 32.2     | 3,222    | 37.1     | 3,140       | 12      | 17 |
| 23                        | Pipes   | 13.4     | 1,443    | 13.0     | 1,171       | 12      | 16 |
| 23                        | Foil  | 0.9      | 132      | 2.1      | 221         | *       | *  |
|                           |   | Th. cwt. |          |          |             |         |    |
| 23                        | Collapsible tubes   | 16.5     | 851      | ..       | 950         | 5       | 7  |
|                           |   | ..       | 339      |          |             |         |    |
| 23                        | Lead shot   | ..       | 151      | ..       | 218         | *       | *  |
|                           |   | Th. tons |          |          |             |         |    |
| 23                        | Other manufactures of lead not elsewhere specified                    | 1.0      | 244      | 19.8     | 1,900       | 26      | 28 |
|                           |   | ..       | 1,144    |          |             |         |    |
|                           | Total lead, lead alloys, laminated lead, and manufactures thereof     |          | 20,213   |          | 22,298      | ..      | .. |

Continued on next page

TABLE 5 (continued)

| Industry sub-division (a)  | 1958                 |                | 1963                 |                 |              |         |
|--|----------------------|----------------|----------------------|-----------------|--------------|---------|
|  | Quantity             | Value          | Quantity             | Value           | Enter-prises | Entries |
| Nickel and nickel alloys (other than nickel silver and cupro-nickel)                         | Th.tons              | £'000          | Th.tons              | £'000           | Number       | Number  |
| 13 Ingots, billets, anodes, cathodes, bars, rods, plates, sheets and strip                   | 30.4                 | 22,837         | 54.4                 | 42,943          | 14           | 16      |
| 27 Castings  | 0.6                  | 561(d)         | 1.2                  | 1,048           | 7            | 8       |
| 13 Other forms of nickel alloys unwrought or partly wrought                                  |                      | (c)            | 2.3                  | 1,428           | *            | *       |
| 27 Other manufactures of nickel  | 5.5<br>..            | 4,937<br>1,969 | ..                   | 2,348           | 12           | 13      |
| Total nickel and nickel alloys and manufactures thereof                                      |                      | 30,304         |                      | 47,766          | ..           | ..      |
| Tin and tin alloys   |                      |                |                      |                 |              |         |
| 12 Tin in blocks, ingots, bars and slabs   | 35.4                 | 26,440         | 22.4                 | 21,336          | 10           | 12      |
| 12 Solder, soft  | 17.5                 | 6,496          | 22.2                 | 9,629           | 20           | 23      |
| 27 Foil  | 0.2                  | 223            | 0.1                  | 111             | *            | *       |
| 27 Collapsible tubes   | Th.cwt.<br>0.9<br>.. | 70<br>414      | ..                   | 397             | *            | *       |
| 27 Other manufactures of tin and tin alloys not elsewhere specified                          | ..                   | 263            | 0.3<br>..            | 187<br>41       | 14           | 14      |
| Total tin and tin alloys and manufactures thereof  |                      | 33,906         |                      | 31,702          | ..           | ..      |
| 13 Tungsten, in all forms except ferro-tungsten  | Th.lb.<br>389        | 543            | ..                   | 2,189           | 8            | 9       |
| Zinc and zinc alloys   | Th.tons              |                |                      |                 |              |         |
| 12 Zinc or spelter unwrought, in ingots, blocks, bars, slabs and cakes                       | 74.3                 | 5,056          | 112                  | 8,997           | 10           | 15      |
| 25 Sheets, strip, plates, foil, discs and circles  | ..                   | 2,992          | 10.8                 | 1,631           | *            | *       |
| 25 Zinc dust and powder  | Th.cwt.<br>272       | 1,214          | Th.cwt.<br>286       | 1,634           | 6            | 7       |
| 12 Zinc alloy ingots (for die casting and forming)   | 956                  | 4,341          | 1,152                | 5,611           | 6            | 6       |
| 26 Zinc alloy pressure die castings except coffin furniture                                  | 487                  | 8,446          | 486<br>..            | 11,390<br>2,017 | 41           | 44      |
| 25 Other manufactures of zinc not elsewhere specified  | ..                   | 423            | Th.tons<br>3.4<br>.. | 599<br>398      | 16           | 17      |
| Total zinc and zinc alloys and manufactures thereof  |                      | 22,472         |                      | 32,277          | ..           | ..      |
| White metal alloys (i.e. alloys of tin, lead, zinc, antimony, etc., not elsewhere specified) | Th.tons              |                |                      |                 |              |         |
| 13 Unwrought or partly wrought   |                      |                |                      |                 |              |         |
| Anti-friction metal  | 2.8                  | 1,540          | 2.5                  | 1,430           | 11           | 11      |

TABLE 5 (continued)

| Industry sub-division (a)  | 1958        |                  | 1963                 |                |              |         |
|--|-------------|------------------|----------------------|----------------|--------------|---------|
|  | Quantity    | Value            | Quantity             | Value          | Enter-prises | Entries |
| White metal alloys (i.e. alloys of tin, lead, zinc, antimony, etc., not elsewhere specified) (continued)       | Th.tons     | £'000            | Th.tons              | £'000          | Number       | Number  |
| 13 Unwrought or partly wrought (continued)   |             |                  |                      |                |              |         |
| Type metal   | 14.0        | 1,728            | 17.1                 | 2,275          | 7            | 8       |
| Other white metal alloys unwrought or partly wrought   | ..          | 274              | 1.7                  | 711            | 7            | 7       |
| 27 Wrought or manufactured   | Th.cwt.     |                  |                      |                |              |         |
| Printing type  | 12.1        | 478              | ..                   | 493            | *            | *       |
| Hard metal powders (including tungsten-carbide powder and matrix) (g)  | ..          | 142              | 694                  | 1,063          | *            | *       |
| Total white metal alloys and manufactures thereof  |             | 4,162            |                      | 5,972          | ..           | ..      |
| 13 Ferro alloys including ferro alloy briquettes   |             |                  | Th.cwt.              |                |              |         |
| Ferro-molybdenum   |             |                  | 84.2                 | 4,300          | *            | *       |
| Ferro-titanium   |             |                  | 8.2                  | 96             | *            | *       |
| Ferro-tungsten   | { 261<br>.. | { 5,744<br>4,300 | 12.6                 | 380            | *            | *       |
| Ferro-vanadium   |             |                  | ..                   | 823            | 5            | 5       |
| Other ferro alloys, except ferro-manganese and spiegeleisen  |             |                  | { 563<br>..          | { 2,230<br>796 | 7            | 7       |
| Total ferro alloys including ferro alloy briquettes  |             | 10,044           |                      | 8,624          | ..           | ..      |
| 27 Flexible metal tubing of non-ferrous metal  |             |                  | Th.tons<br>0.2<br>.. | 250<br>641     | *            | 5       |
| Foil laminated with paper, film, etc.  |             |                  | (c)                  |                |              |         |
| 02 Laminates incorporating aluminium foil  |             |                  | 8.0                  | 9,236          | 16           | 19      |
| 27 Other   |             |                  | 0.2                  | 241            | *            | *       |
| Unclassified non-ferrous metals and manufactures   | ..          | 1,726            | ..                   | 2,660          | 70           | 73      |
| Other products   | ..          | 2,319            | ..                   | 2,823          | 52           | 55      |
| Waste products   | Th.tons     |                  | Th.tons              |                |              |         |
| Scrap metals   |             |                  |                      |                |              |         |
| Aluminium and aluminium alloys   | 10.6        | 1,203            | 25.2                 | 3,580          | 54           | 68      |
| Copper   | 17.0        | 2,929            | 33.6                 | 6,923          | 50           | 61      |
| Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys | 9.2         | 1,085            | 17.7                 | 2,579          | 75           | 93      |
| Lead   | 2.1         | 108              | 2.3                  | 211            | 17           | 18      |
| Zinc   | 1.1         | 49               | 1.2                  | 59             | 19           | 22      |

Continued on next page

TABLE 5 (continued)

| Industry sub-division (a)  | 1958     |         | 1963     |         |              |         |
|--|----------|---------|----------|---------|--------------|---------|
|  | Quantity | Value   | Quantity | Value   | Enter-prises | Entries |
| Waste products (continued)   | Th.tons  | £'000   |          | £'000   | Number       | Number  |
| Scrap metals (continued)   |          |         |          |         |              |         |
| Iron and steel   | 139      | 1,527   | ..       | 1,971   | 118          | 146     |
| Other scrap metals   | 9.0      | 894     |          |         |              |         |
|  | ..       | 360     |          |         |              |         |
| Other waste products (including concentrates and metallic residues, etc. not elsewhere specified)                                    | ..       | 1,518   | ..       | 3,332   | 98           | 131     |
| Work done  |          |         |          |         |              |         |
| 22 Casting of ingots, billets, etc. of brass and other copper alloys   |          | 245     |          | 161     | 7            | 7       |
| 21 Rolling of copper, brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys |          | 153     |          | 237     | 15           | 17      |
| Repair work  |          | 95      |          | 197     | 16           | 17      |
| Other work done on commission, sub-contract work, etc.   |          | 3,817   |          | 1,521   | 42           | 49      |
| Total  |          | 503,213 |          | 668,061 | ..           | ..      |
| Sales in other industries (see Table 6)  |          | 37,951  |          | 48,386  | ..           | ..      |
| Principal products of this industry sold by establishments in the industry   |          | 465,261 |          | 619,675 | 328          | 424(h)  |

(a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.

(b) Including for 1958 an amount for unclassified aluminium and aluminium alloy tubes.

(c) Not recorded separately for 1958.

(d) So far as recorded separately for 1958.

(e) Not separately distinguished for 1958.

(f) Described as 'unclassified un-insulated wire rods, strip and wire not in coils' for 1958.

(g) Described as 'other manufactures of wrought or manufactured white metal alloys' for 1958.

(h) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

|  | 1958     |                | 1963           |          |         |  |
|--|----------|----------------|----------------|----------|---------|--|
|  | Quantity | Value          | Quantity       | Value    | Entries | Principal industries in which produced (a) |
| Aluminium and aluminium alloys   |          | £'000          | Th.tons        | £'000    | Number  |  |
| Bars (other than notch bars and wire bars), rods, angles, shapes and sections; and tubes   | ..       | 1,792(b)       | 2.7            | 669      | *       | 37,56,71                                   |
|  | Th.tons  |                |                |          |         |  |
| Castings   |          |                |                |          |         |  |
| Sand   |          |                | 1.0            | 553      | 64      | 39,49,62                                   |
|  |          |                | ..             | 142      |         |  |
| Gravity die  | { 2.2    | 1,129<br>333   | 0.2            | 78       | *       | 39,59,62                                   |
| Pressure die and unclassified  | { ..     |                | ..             | 527      | 7       | 50,62,74,107                               |
| Forgings and stampings   |          |                | 0.4            | 351      | 9       | 74   |
| Foil (rolled material not exceeding 0.006 inch in thickness)   | { 0.3    | 274<br>602     | ..             | 2,522    | 33      | 36,50,70,74                                |
| Other manufactures of aluminium and aluminium alloys not elsewhere specified   | { ..     |                |                |          |         |  |
|  | ..       | 945(c)         |                |          |         |  |
| Total aluminium and aluminium alloys and manufactures thereof  |          | 5,075          |                | 4,841    | ..      |  |
| Antimony, regulus and refined  |          | (d)            | 3.3            | 748      | *       | 27   |
| Brass and other copper alloys (including nickel silver and cupro-nickel but excluding all other nickel alloys)                                   |          |                |                |          |         |  |
| Ingots, blocks, slabs, billets, bars (including wire bars), other refinery shapes and cast strip; plates, sheets, foil, strip, discs and circles | 9.1      | 1,670          | 5.2            | 1,131    | 5       | 30,49,71                                   |
| Direct castings not included above   |          | (e)            | 1.4            | 723      | 11      | 27,49,52,74                                |
|  |          |                | ..             | 427      |         |  |
| Castings, pressings and stampings  |          |                |                |          |         |  |
| Machined castings  | { 1.3    | 546<br>384     | 1.7            | 885      | 28      | 39,50,71,74                                |
|  | { ..     |                | ..             | 147      |         |  |
| Rough castings sold as such  | { 7.7    | 3,340<br>384   | 2.4            | 1,173(f) | 68      | 39,50,52,55                                |
|  | { ..     |                | ..             | 68       |         |  |
| Stampings and pressing which are the product of drop stamping or hot pressing  | { 3.0    | 1,683<br>1,564 | 4.2            | 1,369    | 24      | 49,51,52,74                                |
|  | { ..     |                | ..             | 807      |         |  |
| Pressings in sheet metal   | ..       | 195            | 1.0            | 975      | 99      | 70,74,124                                  |
|  |          |                | ..             | 1,226    |         |  |
| Round brass rods and other rods, sections and wire not in coils  | 9.0      | 1,992          | { 5.2          | 1,351    | 30      | 38,70,71,74                                |
| Other manufactures of brass and other copper alloys, not elsewhere specified   | ..       | 194            |                |          |         |  |
| Total brass and other copper alloys and manufactures thereof   |          | 11,952         |                | 11,349   | ..      |  |
| Cadmium  |          | (d)            | Th.lb.<br>47.0 | 38       | *       | 73   |
|  |          |                | ..             | 1,088    |         |  |

Continued on next page

TABLE 6 (continued)

|   | 1958       |              | 1963      |            |         | Principal industries in which produced (a) |
|---|------------|--------------|-----------|------------|---------|--|
|   | Quantity   | Value        | Quantity  | Value      | Entries |  |
| Copper  | Th.tons    | £'000        | Th.tons   | £'000      | Number  |  |
| Unwrought: ingots, blocks, slabs, ingot bars, wire bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent. copper content or over | 2.9<br>..  | 614<br>1,591 | 13.0      | 3,106      | *       | 27,71,73                                   |
| High conductivity strip   | 10.4       | 3,125        | 11.3      | 3,872      | 8       | 56,71                                      |
| Plates, sheets or strip (other than high conductivity); rods, sections, shapes and angles, and wire not in coils  | 48.5       | 11,023(g)    | 49.4      | 12,808     | 11      | 56,59,70,71                                |
| Copper castings other than engineers' and mechanics' goods, etc.  | 0.5<br>..  | 131<br>54    |           | -          |         |  |
| Other manufactures of copper not elsewhere specified  | ..         | 329          | 0.9<br>.. | 394<br>338 | 12      | 27,71,73,74                                |
| <b>Total copper and manufactures thereof</b>  |            | 16,867       |           | 20,518     | ..      |  |
| Lead and lead alloys and laminated lead and manufactures thereof  | 1.1<br>..  | 244<br>295   | ..        | 192        | 7       | 27,50,74,72                                |
| Nickel and nickel alloys (other than nickel silver and cupro-nickel) and manufactures thereof   | 0.1<br>..  | 169<br>64    | 0.7       | 1,471      | 10      | 27,37,38,74                                |
| Zinc and zinc alloys  | Th.cwt.    |              |           |            |         |  |
| Zinc alloy pressure die castings except coffin furniture  | 23.1<br>.. | 191<br>227   | ..        | 380        | 7       | 49,62,74                                   |
| Other manufactures of zinc and zinc alloys  | 75.5       | 354          | ..        | 893        | 6       | 27,74                                      |
| <b>Total zinc and zinc alloys and manufactures thereof</b>  |            | 772          |           | 1,274      | ..      |  |
| Foil laminated with paper, film, etc.   |            | (d)          | 2.4       | 4,391      | 15      | 114,116,118                                |
| Unclassified non-ferrous metals and manufactures  | 0.4<br>..  | 396<br>418   | ..        | 2,475      | 19      | 27,37,38,43                                |
| Other metals and alloys of metals   | 2.5<br>..  | 679<br>1,021 |           |            |         |  |
| <b>Total</b>  |            | 37,951       |           | 48,386     | ..      |  |

(a) The references given are to the list of industries at the back of this report.

(b) Including for 1958 'secondary based aluminium and aluminium alloy ingots, notch bars and sticks; plates, sheet and strip (flat or in coil) exceeding 0.006 inch in thickness'.

(c) Including for 1958 'unclassified manufactures of aluminium and aluminium alloys'.

(d) Not recorded separately for 1958.

(e) Not separately distinguished for 1958.

(f) Including 'unclassified castings of brass and other copper alloys' for 1963.

(g) Including 'unclassified uninsulated wire rods, strip and wire not in coils' for 1958.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

|   | 1958      |           | 1963      |              |
|---|-----------|-----------|-----------|--------------|
|   | Quantity  | Value     | Quantity  | Value        |
| Chemical products   |           | £'000     | Th.tons   | £'000        |
| Metallic compounds  | ..        | 2,457     | 6.4<br>.. | 1,405<br>296 |
| Other chemical products   | ..        | 4,332     | ..        | 5,934        |
| Spiegeleisen and blast furnace ferro-manganese  | 1.4       | 231       | 9.4       | 779          |
| Manufactures of iron and steel  | ..        | 1,112     | ..        | ..           |
| Iron castings in the rough or machined other than rolls for metal rolling mills and rolls for machinery         | 5.4       | 658       | 4.1<br>.. | 669<br>186   |
| Wood and metal patterns   | ..        | 508       | ..        | 726          |
| Mechanical engineering products   | ..        | 207       | ..        | 508          |
| Moulds and dies other than of hard metal  | ..        | 422       | ..        | 1,201        |
| Miscellaneous non-electrical machinery  | ..        | 133       | ..        | 2,327        |
| Industrial plant and steelwork  | ..        | 1,698     | ..        | ..           |
| Other mechanical engineering products   | ..        | ..        | ..        | ..           |
| Wire and wire manufactures  |           |           |           |              |
| Wire in coils   |           |           |           |              |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) |           |           |           |              |
| Circular section, thinner than No. 20 gauge   | 0.7       | 199       | 1.8       | 569          |
| Circular section, No. 20 gauge and thicker  |           |           |           |              |
| Of brass  | 2.3       | 459       | 3.0       | 751          |
| Of other alloys of copper   | 1.1       | 461       | 0.8       | 471          |
| Other descriptions (including stranded wire)  | 0.3       | 97        |           | -            |
| Copper wire   | 11.8      | 3,099     | 8.1       | 2,416        |
| Aluminium wire  | 0.7       | 298       | 1.3       | 510          |
| Other wire and wire manufactures  |           | (a)       | ..        | 2,062        |
| Jewellery, plate and precious metal refining products   | ..        | 2,492     | ..        | 4,050        |
| Miscellaneous metal manufactures  |           |           |           |              |
| Engineers' and mechanics' goods (including fittings for water supply)   | ..        | 2,184     | ..        | 6,788        |
| Stampings and pressings of iron and steel   | 0.2<br>.. | 57<br>20  | 1.3<br>.. | 186<br>214   |
| Other miscellaneous metal manufactures  | ..        | 1,271     | ..        | 897          |
| Other products and work done  | ..        | 10,564    | ..        | 7,579        |
| Services rendered to other organisations (b)  | ..        | ..        | ..        | 1,669        |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)   | ..        | 32,836    | ..        | 44,037       |
| Canteen takings   |           | 1,057     |           | 1,470        |
| <b>Total</b>  |           | 66,850(c) |           | 87,702       |

(a) Included in 'Other products and work done' for 1958.

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

(c) Excluding amounts charged for services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963 (a)  
Firms employing 25 or more persons: United Kingdom

| Standard Industrial Classification | Purchasing industry (b)                                 | Non-ferrous metals in all forms except finished parts, wire and scrap |                 |   |                |
|------------------------------------|---|---|-----------------|---|----------------|
|                                    |   | Aluminium and aluminium alloys  |                 | Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) |                |
|                                    |   | Quantity  | Cost            | Quantity  | Cost           |
| Minimum List Heading               |   | Th. tons  | £'000           | Th. tons  | £'000          |
| 271/3                              | General chemicals                                       |   | (d)             |   | (d)            |
| 311                                | Iron and steel (general)                                |   | (d)             |   | (d)            |
| 312                                | Steel tubes   |   | (d)             |   | (d)            |
| 321 & 322                          | Non-ferrous metals                                      | { 383 ..  | { 70,953 1,206  | { 90.8  | { 20,665       |
| 334                                | Industrial engines                                      |   | (c)             | 4.0   | 1,600          |
| 339                                | Miscellaneous (non-electrical) machinery                | { 16.7 ..   | { 5,041 725     | { 27.2 ..   | { 8,330 1,318  |
| 349/3                              | General mechanical engineering                          | { 14.0 ..   | { 4,345 720     | { 22.7 ..   | { 6,591 742    |
| 351                                | Scientific, surgical and photographic instruments, etc. | 4.1   | 2,028           | { 6.4 ..  | { 2,238 529    |
| 361                                | Electrical machinery                                    | 8.9   | 2,891           | 13.8  | 4,220          |
| 362                                | Insulated wires and cables                              | 17.2  | 3,971           | 9.5   | 2,505          |
| 363                                | Telegraph and telephone apparatus                       |   | (c)             | 5.2   | 1,739          |
| 364                                | Radio and other electronic apparatus                    | 9.1   | 3,784           | { 4.5 ..  | { 1,571 265    |
| 365                                | Domestic electrical appliances                          | { 13.6 ..   | { 4,016 703     | { 2.0 ..  | { 677 414      |
| 369/5                              | Miscellaneous electrical goods                          | { 4.5 ..  | { 1,349 452     | { 18.2  | { 4,958        |
| 370                                | Shipbuilding and marine engineering                     | 3.8   | 1,755           | 6.3   | 2,470          |
| 381                                | Motor vehicle manufacturing                             | 79.4  | 25,050          | 20.9  | 6,280          |
| 383                                | Aircraft manufacturing and repairing                    | 16.4  | 11,741          |   | (c)            |
| 393                                | Bolts, nuts, screws, rivets, etc.                       |   | (c)             | 10.0  | 2,659          |
| 394                                | Wire and wire manufactures                              | 17.6  | 3,841           | 12.8  | 2,950          |
| 396                                | Jewellery, plate and refining of precious metals        |   | (d)             | { 3.0 ..  | { 1,428 30     |
| 399                                | Miscellaneous metal manufactures                        | 44.0  | 15,323          | { 75.8 ..   | { 19,893 303   |
| 494                                | Toys, games and sports equipment                        |   | (c)             |   | (d)            |
| 500                                | Construction  |   | (d)             |   | (d)            |
|                                    | Other industries  | { 26.0 ..   | { 8,977 4,897   | { 24.0 ..   | { 7,004 795    |
|                                    | Total   | { 658 ..  | { 165,066 8,703 | { 358 ..  | { 97,778 4,395 |

(a) The figures include purchases of imported as well as of home produced goods.

(b) Specified Census industries for which purchases are one per cent. or more of the total of any commodity heading.

(c) Included in the total for 'Other industries'.

(d) Not recorded separately.

| Non-ferrous metals in all forms except finished parts, wire and scrap (continued) |                  |  |                |                         |                |   |              |          |              |
|---|------------------|--|----------------|-------------------------|----------------|---|--------------|----------|--------------|
| Copper (excluding blister)  |                  | Lead and alloys of lead (excluding solder) |                | Zinc and alloys of zinc |                | Nickel and nickel alloys (excluding nickel silver and cupro-nickel) |              | Tin      |              |
| Quantity  | Cost             | Quantity                                   | Cost           | Quantity                | Cost           | Quantity  | Cost         | Quantity | Cost         |
| Th. tons  | £'000            | Th. tons                                   | £'000          | Th. tons                | £'000          | Th. tons  | £'000        | Th. cwt. | £'000        |
|   | (d)              | { 52.0 ..                                  | { 3,357 476    | { 66.7                  | { 3,266        |   | (d)          | 17.3     | 646          |
|   | (d)              |  | (d)            | 21.3                    | 1,667          | 13.0  | 6,703        | 10.1     | 8,883        |
|   | (d)              |  | (d)            | 12.2                    | 920            |   | (d)          |          | (d)          |
| 439   | 105,632          | 134  | 11,275         | { 145 ..                | { 12,359 750   | { 18.0  | { 11,188     | 194      | 8,973        |
|   | (c)              |  | (c)            |                         | (c)            |   | (d)          |          | (c)          |
| { 6.9   | { 2,412          |  | (c)            | { 2.1 ..                | { 298 37       |   | (d)          |          | (c)          |
|   | (c)              |  | (c)            |                         | (c)            |   | (d)          | 25.3     | 1,181        |
|   | (d)              |  | (d)            |                         | (d)            |   | (d)          |          | (d)          |
| 21.8 ..   | { 7,998 923      |  | (c)            |                         | (c)            |   | (d)          |          | (c)          |
| 205   | 50,241           | 104  | 6,785          |                         | (c)            |   | (d)          | 8.5      | 434          |
| 10.6  | 3,535            | 4.5  | 350            |                         | (c)            |   | (d)          |          | (c)          |
|   | (c)              |  | (c)            |                         | (c)            |   | (d)          |          | (c)          |
|   | (c)              |  | (c)            | 5.0                     | 887            |   | (d)          |          | (c)          |
| 7.3   | 2,193            | 79.5                                       | 5,542          | 19.5                    | 2,044          |   | (d)          |          | (c)          |
|   | (c)              |  | (d)            |                         | (d)            |   | (c)          |          | (c)          |
| 7.7   | 2,529            |  | (d)            | { 14.1 ..               | { 1,881 402    |   | (d)          |          | (d)          |
|   | (c)              |  | (d)            |                         | (d)            |   | (d)          |          | (d)          |
|   | (c)              |  | (d)            |                         | (d)            |   | (d)          |          | (d)          |
| 62.8  | 15,700           |  | (d)            | 22.7                    | 1,847          | 1.6   | 1,142        |          | (d)          |
|   | (c)              |  | (d)            |                         | (d)            | 1.2   | 729          |          | (d)          |
| { 15.9  | { 5,121          |  | (c)            | 35.4                    | 3,142          | { 2.6 ..  | { 1,628 200  | 7.2 ..   | { 344 94     |
|   | (d)              |  | (c)            | 5.2                     | 506            |   | (d)          |          | (d)          |
| ..  | 9,836            | ..   | 1,170          |                         | (d)            |   | (d)          |          | (d)          |
| 23.4 ..   | { 7,665 387      | 9.5 ..                                     | { 970 419      | 12.9 ..                 | { 1,443 163    | 0.3 ..  | { 67 35      | 13.9 ..  | { 546 41     |
| 800 ..  | { 203,026 11,145 | 384 ..                                     | { 28,279 2,064 | 363 ..                  | { 30,258 1,352 | 36.7 ..   | { 21,454 235 | 276 ..   | { 21,006 134 |

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963  
Firms employing 25 or more persons: United Kingdom

|  | 1954     |         | 1963     |        |
|--|----------|---------|----------|--------|
|  | Quantity | Cost    | Quantity | Cost   |
| Materials for processing   | Th.tons  | £'000   | Th.tons  | £'000  |
| Bauxite and alumina  | ..       | (a)     | 59.5     | 2,016  |
| Aluminium and aluminium alloys   |          |         |          |        |
| Ingots and notch bars - virgin   | 174      | 27,688  | 178      | 32,483 |
| Ingots, notch bars and sticks - secondary  | 44.4     | 7,233   | 72.5     | 10,834 |
| Blocks, slabs, billets and wire bars   | 65.3     | 10,819  | 98.4     | 17,793 |
| Sheets, plates, strip, blanks, discs, circles, slugs and foil (b)  | 23.9     | 4,979   | 34.3     | 9,524  |
| Bars (other than notch bars and wire bars), rods, angles, shapes, sections and tubes   | { 6.6    | { 1,096 | { ..     | { 659  |
| All other descriptions except finished parts, wire and scrap (c)   | { ..     | { 424   | { 2.1    | { 450  |
| ..   |          |         | { ..     | { 383  |
| Magnesium ore, magnesia and magnesium and magnesium alloys (excluding finished parts, wire and scrap) (d)  | 12.0     | 2,780   | 6.9      | 1,895  |
| Antimony ore and concentrates  | 3.8      | 319     | 0.6      | 88     |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)                                    |          |         |          |        |
| Ingots, blocks, slabs, billets, bars (including wire bars) and cast strip  | 57.4     | 12,026  | 67.0     | 13,865 |
| Plates, sheets, strip (other than broken down strip), discs, circles and foil  | 3.1      | 808     | 9.4      | 2,628  |
| Other descriptions including broken down strip and tube shells but excluding finished parts, wire and scrap (c)                                    | 9.4      | 2,297   | 16.4     | 4,172  |
| ..   |          | (e)     | 14.7     | 196    |
| Chrome ore   |          | (e)     | 0.1      | 28     |
| Columbite  |          |         |          |        |
| Copper blister   | 126      | 30,206  | 54.0     | 12,014 |
| Copper unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes (including rough copper of 94 per cent. copper content or over) |          |         |          |        |
| Fire refined   | 90.7     | 21,586  | 157      | 37,738 |
| Other  | 169      | 43,522  | 254      | 59,885 |
| High conductivity copper rods and strip  | 4.8      | 1,248   | 2.2      | 600    |
| Copper plates, sheets, strip, discs and circles (other than of high conductivity)  | 0.7      | 227     | 4.7      | 1,303  |
| Other descriptions of copper including broken down copper cake and tube shells but excluding finished parts, wire and scrap (c)                    | 6.3      | 1,861   | 22.0     | 6,105  |
| Lead ore and concentrates  | ..       | (a)     | 33.2     | 1,417  |
| Lead and lead alloys   |          |         |          |        |
| Lead unwrought in pigs, ingots, blocks, bars, slabs and cakes  |          |         |          |        |
| Imported virgin lead (excluding lead bullion) (f)  | 39.2     | 3,816   | 20.8     | 1,411  |
| Re-melted lead   | 3.8      | 364     | 21.5     | 1,440  |
| English refined lead including lead refined from imported base bullion   | 15.3     | 1,524   | 23.8     | 1,518  |
| Other descriptions (e.g. lead bullion) except finished parts, wire and scrap (g)   | 42.5     | 5,630   | 68.3     | 6,907  |
| ..   |          | (e)     | 5.6      | 3,539  |
| Molybdenite  | ..       | (a)     | 60.4     | 21,906 |
| Nickel ore, concentrates and matte   | ..       | (a)     | 60.4     | 21,906 |
| Nickel and nickel alloys (other than nickel silver and cupro-nickel), in all forms except finished parts, wire and scrap (c)                       | 17.2     | 9,463   | 18.0     | 11,188 |

TABLE 10 (continued)

|  | 1954     |          | 1963     |          |
|--|----------|----------|----------|----------|
|  | Quantity | Cost     | Quantity | Cost     |
| Materials for processing (continued)   | Th.tons  | £'000    | Th.tons  | £'000    |
| Tin ore and concentrates   |          |          | 45.3     | 14,524   |
| Tin in all forms except finished parts, wire and scrap (c)   | 66.7     | 22,730   | Th.cwt.  | 8,973    |
| ..   |          |          | 194      |          |
| ..   |          |          | Th.tons  |          |
| Tungsten   |          | (e)      | 2.5      | 786      |
| Zinc ore and concentrates  | ..       | (a)      | 203      | 4,054    |
| Zinc and zinc alloys   |          |          |          |          |
| Zinc of not less than 99.99 per cent. purity   | 63.4     | 5,733    | 87.1     | 7,206    |
| Other electrolytic and refined zinc, and low grade prime western, debased and G.O.B. zinc                                  | 51.7     | 4,584    | 58.3     | 4,706    |
| Re-melted  | 1.5      | 123      | 4.4      | 399      |
| Other descriptions except finished parts, wire and scrap (c)   | 6.5      | 565      | { 0.6    | { 49     |
| ..   |          |          | { ..     | { 750    |
| Alloying materials not elsewhere specified (e.g. silicon, titanium, chrome, manganese, cobalt)                             | 11.0     | 2,156    | { 24.5   | { 4,764  |
| ..   |          |          | { ..     | { 3,677  |
| Scrap (including all forms of scrap material purchased, not elsewhere specified)   |          |          |          |          |
| Aluminium and aluminium alloys   | 84.6     | 9,170    | 124      | 12,968   |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)            | { 171    | { 27,292 | { 184    | { 29,144 |
| ..   | { ..     | { 3,162  |          |          |
| Copper   | 145      | 25,761   | 164      | 28,805   |
| Lead   | 134      | 11,478   | 134      | 7,271    |
| Magnesium and magnesium alloys   |          | (e)      | 3.8      | 478      |
| Nickel alloys (other than nickel silver and cupro-nickel)  | ..       | (a)      | 1.5      | 413      |
| ..   | Th.cwt.  |          | Th.cwt.  |          |
| Tin  | 261      | 2,228    | 237      | 4,227    |
| ..   | Th.tons  |          | Th.tons  |          |
| Zinc   | 6.4      | 279      | 6.9      | 412      |
| Zinc base alloys   | 3.4      | 208      | 7.0      | 389      |
| Other  | 145      | 5,860    | 90.7     | 8,516    |
| Iron and steel in all forms except finished parts, wire and scrap (c)  | { 10.5   | { 773    | { 76.0   | { 1,824  |
| ..   | { ..     | { 105    | { ..     | { 490    |
| Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)                                   |          | (e)      | { 6.9    | { 85     |
| ..   |          |          | { ..     | { 12     |
| ..   |          |          | Th.gal.  |          |
| ..   |          |          | 1,735    | 399      |
| Lubricating oils and greases   |          | (e)      | Th.cwt.  |          |
| ..   |          |          | 9.4      | 47       |
| ..   |          |          | ..       | 188      |
| Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement | ..       | 5,832    | ..       | 7,686    |
| All other materials for processing   | ..       | 44,976   | ..       | 28,910   |

Continued on next page

TABLE 10 (continued)

|  | 1954       |                   | 1963       |         |
|--|------------|-------------------|------------|---------|
|  | Quantity   | Cost              | Quantity   | Cost    |
| Packaging materials  |            | £'000             |            | £'000   |
| Wrapping paper (including paper coated with plastics and any laminates incorporating paper but not metal), moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard (except multiwall sacks and boxes, cartons, packing cases, drums and canisters) | ..         | 34 <sup>(h)</sup> | ..         | 858     |
|  |            |                   | Thousands  |         |
| Metal barrels, kegs and drums  | ..         | 215               | 363        | 247     |
|  |            |                   | ..         | 46      |
| Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates  | ..         | 752               | ..         | 391     |
| All other packaging materials  | ..         | 808               | ..         | 1,484   |
| Fuel and electricity (i)   | Th. tons   |                   | Th. tons   |         |
| Coal   | 617        | 2,472             | 340        | 1,932   |
| Coke (including screenings) and manufactured fuel  | 229        | 1,365             | 183        | 1,593   |
|  | Th. gal.   |                   | Th. gal.   |         |
| Derv fuel and motor spirit for use in road vehicles  | 2,306      | 457               | 3,205      | 580     |
| Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)  | 46,725     | 2,050             | 91,942     | 4,054   |
|  | Th. therms |                   | Th. therms |         |
| Gas  | 37,206     | 1,851             | 51,171     | 3,290   |
|  | Th. kWh    |                   | Th. kWh    |         |
| Electricity  | 1,249,202  | 5,606             | 1,539,234  | 8,154   |
|  |            |                   | ..         | 1,519   |
| Total cost of materials and fuel   |            | 378,538           |            | 470,284 |
| Goods purchased for merchanting  |            | ..                |            | 38,436  |
| Canteen purchases  |            | ..                |            | 1,349   |
| Total cost of purchases  |            | ..                |            | 510,070 |

- (a) Included in 'All other materials for processing' in 1954.  
 (b) 'Blanks' were not specifically included in 1954.  
 (c) 'Wire' was not specifically excluded in 1954.  
 (d) 'Finished parts, wire and scrap' were not specifically excluded in 1954.  
 (e) Not recorded separately for 1954.  
 (f) 'Lead bullion' was not excluded in 1954.  
 (g) 'Lead bullion' was not specifically included and 'wire' not excluded in 1954.  
 (h) So far as recorded separately for 1954.  
 (i) The total quantity of electricity generated in firm's own establishments in this industry was 289,710 Th.kWh in 1954. Owing to the risk of disclosure of information relating to individual firms the quantity cannot be shown for 1963.

TABLE 11 Transport costs and employment of larger firms, 1963

Firms employing 25 or more persons: United Kingdom

|   | Unit  | 1963  |
|---|-------|-------|
| Average number employed mainly on transport                 | No.   | 1,593 |
| Transport costs   |       |       |
| Wages and salaries  | £'000 | 1,380 |
| Derv fuel and motor spirit                                  | "     | 580   |
| Payments to other organisations for transport               | "     | 5,448 |
| Costs of operating road goods vehicles                      |       |       |
| Insurance   | "     | 73    |
| Vehicle licences  | "     | 78    |
| Depreciation  | "     | 495   |
| Payments to other organisations for repairs and maintenance | "     | 241   |
| Total   | "     | 8,295 |

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

|  | Amounts payable |
|--|-----------------|
| Repairs and maintenance to                                       | £'000           |
| Buildings  | 986             |
| Road goods vehicles  | 241             |
| Plant, machinery, and other capital equipment                    | 2,611           |
| Insurance, licensing and depreciation of road goods vehicles (b) | 648             |
| Rates, excluding water rates                                     | 2,840           |
| Hire of plant and machinery                                      | 282             |
| Postage, telephone, telegrams and cables                         | 1,057           |
| Total  | 8,663           |

- (a) No deduction is made for these payments to arrive at the figures of net output given in this report.  
 (b) For details see Table 11.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963

Firms employing 25 or more persons:  
United Kingdom

| Year ended | Percentage of total number employed | Year ended    | Percentage of total number employed |
|------------|-------------------------------------|---------------|-------------------------------------|
| 1963       | Per cent.                           | 1963 (contd.) | Per cent.                           |
| April (a)  | 1.8                                 | November      | 0.8                                 |
| May        | 0.5                                 | December      | 58.2                                |
| June       | 4.2                                 | 1964          |                                     |
| July       | 21.9                                | January       | 2.1                                 |
| August     | 0.4                                 | February      | 0.4                                 |
| September  | 2.8                                 | March         | 8.6                                 |
| October    | 0.8                                 |               |                                     |
|            |                                     | Total         | 100                                 |

(a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

Notes - continued from page ii

*Capital Expenditure (continued)*

## (ii) 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 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.

## (iii) 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. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

*Characteristic Products*

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

*Enterprise*

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

*Entries*

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

*Establishment*

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other

ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

*Gross Output*

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

*Larger Firms*

These are firms in which twenty-five or more persons were employed on the average during the year.

*Net Output*

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

*Net output per person employed*

The figures for 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 outworkers.

*Principal Products*

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

*Production*

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.



### Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packing materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery 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.

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 firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their 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 delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

### Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms 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 firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

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, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department 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 basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

### 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 departments of the same firm not covered by the return.

### Small Firms

These are firms in which fewer than twenty-five persons were employed on the average during the year.

### Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is 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 payments to other firms, and to any separate transport organisation of the same firm, 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, coast-wise shipping, air, etc.

Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

### Wages and Salaries

These are the 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; in Northern Ireland this exclusion extends also to payments to directors of limited companies. 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 Insurance and pension schemes is excluded.

### Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. 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 negligible (less than half the final digit shown)
- \* Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

### Rounding of Figures

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

## List of Industry Reports, etc

### Part No. and title

- 1 Introductory Notes
- 2 Coal Mining
- 3 Stone and Slate Quarrying and Mining
- 4 Chalk, Clay, Sand and Gravel Extraction
- 5 Metalliferous Mining and Quarrying
- 6 Salt and Miscellaneous Non-metalliferous Mining and Quarrying
- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 9 Biscuits
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery
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- 20 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco
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- 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers and Chemicals for Pest Control
- 27 General Chemicals
- 28 Pharmaceutical Preparations
- 29 Toilet Preparations
- 30 Explosives and Fireworks
- 31 Paint and Printing Ink
- 32 Vegetable and Animal Oils and Fats
- 33 Soap, Detergents, Candles and Glycerine
- 34 Synthetic Resins and Plastics Materials
- 35 Polishes
- 36 Gelatine, Adhesives, etc.
- 37 Iron and Steel (General)
- 38 Steel Tubes
- 39 Iron Castings, etc.
- 40 Non-ferrous Metals
- 41 Agricultural Machinery (except Tractors)
- 42 Metal-working Machine Tools
- 43 Engineers' Small Tools and Gauges
- 44 Industrial Engines
- 45 Textile Machinery and Accessories
- 46 Contractors' Plant and Quarrying Machinery
- 47 Mechanical Handling Equipment
- 48 Office Machinery
- 49 Miscellaneous (Non-electrical) Machinery
- 50 Industrial Plant and Steelwork
- 51 Ordnance and Small Arms
- 52 General Mechanical Engineering
- 53 Scientific, Surgical and Photographic Instruments, etc.
- 54 Watches and Clocks
- 55 Electrical Machinery
- 56 Insulated Wires and Cables
- 57 Telegraph and Telephone Apparatus
- 58 Radio and Other Electronic Apparatus
- 59 Domestic Electrical Appliances
- 60 Miscellaneous Electrical Goods
- 61 Shipbuilding and Marine Engineering
- 62 Motor Vehicle Manufacturing
- 63 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 64 Aircraft Manufacturing and Repairing
- 65 Locomotives and Railway Track Equipment
- 66 Railway Carriages and Wagons and Trams
- 67 Perambulators, Hand-trucks, etc.
- 68 Tools and Implements

### Part No. and title

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- 70 Bolts, Nuts, Screws, Rivets, etc.
- 71 Wire and Wire Manufactures
- 72 Cans and Metal Boxes
- 73 Jewellery, Plate and Refining of Precious Metals
- 74 Miscellaneous Metal Manufactures
- 75 Production of Man-made Fibres
- 76 Spinning and Doubling of Cotton, Flax and Man-made Fibres
- 77 Weaving of Cotton, Linen and Man-made Fibres
- 78 Woollen and Worsted
- 79 Jute
- 80 Rope, Twine and Net
- 81 Hosiery and Other Knitted Goods
- 82 Lace
- 83 Carpets
- 84 Narrow Fabrics
- 85 Household Textiles and Handkerchiefs
- 86 Canvas Goods and Sacks
- 87 Textile Finishing
- 88 Asbestos
- 89 Miscellaneous Textile Industries
- 90 Leather (Tanning and Dressing) and Fellmongery
- 91 Leather Goods
- 92 Fur
- 93 Weatherproof Outerwear
- 94 Men's and Boys' Tailored Outerwear
- 95 Women's and Girls' Tailored Outerwear
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- 97 Dresses, Lingerie, Infants' Wear, etc.
- 98 Hats, Caps and Millinery
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- 101 Footwear
- 102 Bricks, Fireclay and Refractory Goods
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