This Report on the Copper, Brass and Other Copper Alloys Industry relates to establishments engaged wholly or mainly in refining copper, making copper alloys (brass, bronze etc), and in the production in copper and its alloys of ingots, bars, billets, sheets, strip, foil, circles, sections, rods, pipes, tubes,etc, and of die castings. The production of engineers' castings, stampings and pressings is included but wire drawing and the production of finished goods such as hol low-ware are excluded.

This industry corresponds to minimum list heading 322 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry formed part of the Non-ferrous Metals Industry (Part 40) in the Reports on the last detailed Census of Production for 1963 and the remainder is now the subject of two other Reports for 1968, Aluminium and Aluminium Alloys (Part 47) and Miscellaneous Base Metals (Part 49).

Throughout this Report the figures given for 1963 have been reclassified as far as possible, according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms which provided limited information only has been arbitrary.

There were no larger establishments in this industry in Northern Ireland in 1963 and 1968

## METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure as outlined in the notes on page (i). A different procedure was used in classifying returns to the sub-divisions of the industry shown in Table 4. Returns in which combined sales of copper, brass and other copper alloys 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'.

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

TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, fro which only employment data were collected, accounted for 8 per cent. of the total figures in which they
were incorporated: of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 6 per cent. and 1 per cent. respectively
(b) The following information relates to small establishments (employing fewer than 25 persons) in this

| Number of establishments | 1963 | 1968 |
| :--- | ---: | ---: |
| Average number employed: | 238 | 269 |
| Working proprietors |  |  |
| Other persons employed | 238 | 291 |
| 2,233 | 2,905 |  |

Average number employed:
Morking proprietors
2,233
2,905

## Footnotes continued from page 48/3.

(c) Including services rendered to other organisations (anounts charged for hiring out plant machinery or other goods, for providing transport, or for technical or other services rendered).
(d) Administrative, technical and clerical employees
(e) Excluding expenditure for establishments not yet in production.
(f) Acquisitions less disposals.

TABLE 2 Analysis by size of establishment within the industry, 1968
(i) Output and employment

All establishments: United Kingdom

| Number employed on average during the year by the est abl i shment (a) | $\begin{aligned} & \text { Est ab- } \\ & \text { li sh- } \\ & \text { men't } \end{aligned}$ | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (b) } \end{aligned}$ | Total number employed on average during the year (a) | Gross output | Net output | Net output per head |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | £'000 | $£^{\prime} 000$ | £ |
| 1-5 | 73 | 72 | 256 | .. | .. | .. |
| 6-10 | 75 | 75 | 592 | . | . | . |
| 11-24 | 121 | 120 | 2,092 | $\cdots$ | . |  |
| 25-49 | 51 | 47 | 1,895 | 17,650 | 3,983 | 2,102 |
| 50-99 | 49 | 47 | 3,391 | 25,090 | 6,306 | 1,860 |
| 100-199 | 37 | 32 | 5,045 | 64,722 | 11,340 | 2, 248 |
| 200-299 | 17 | 13 | 4, 260 | 58,070 | 9,170 | 2,153 |
| 300-399 | 6 | 3 | 2,202 | 39,694 | 5,859 | 2,661 |
| 400-499 | 4 | 4 | 1,808 | 53,786 | 5,031 | 2,783 |
| 500-749 | 9 | 6 | 5,456 | 48,663 | 11,927 | 2,186 |
| 750-999 | 4 | 4 | 3,551 | 58,098 | 8,213 | 2,313 |
| 1,000 and over | 6 | 6 | 16,765 | 166,002 | 37,652 | 2,246 |
| Unsatisfactory returns | 54 | 53 | 1,199 | .. | .. | .. |
| Total | 506 | 425 | 48,512 | 580,693(c) | 108,738(c) | 2,241(c) |

(ii) Employees, wages and sal aries

All establishments: United Kingdom

| Number employed on average during the year by the establ i shment (a) | Employees |  | Wages and salaries |  | Wages and sal aries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Operatives | 0thers (d) | Operatives | 0thers (d) | Operatives | 0 thers (d) |
|  | Number | Number | £'000 | £'000 | £ | £ |
| 1-5 | . | . | . | . | . | . |
| 6-10 | .. | . | . | . | . | . |
| 11-24 | . | . | . | . | . | . |
| 25-49 | 1,500 | 363 | 1,369 | 534 | 913 | 1,472 |
| 50-99 | 2,718 | 639 | 2,299 | 810 | 846 | 1,267 |
| 100-199 | 4,063 | 975 | 4,158 | 1,360 | 1,023 | 1,395 |
| 200-299 | 3,425 | 832 | 3,206 | 1,070 | 936 | 1,286 |
| 300-399 | 1,549 | 653 | 1,592 | 910 | 1,028 | 1,394 |
| 400-499 | 1,480 | 328 | 1,493 | 435 | 1,009 | 1,326 |
| 500-749 | 4,318 | 1,138 | 4,486 | 1,357 | 1,039 | 1,193 |
| 750-999 | 2,808 | 743 | 3,057 | 875 | 1,089 | 1,177 |
| 1,000 and over | 11,505 | 5,259 | 11,712 | 7,738 | 1,018 | 1,471 |
| Unsatisfactory returns | . . | . | .. | .. | . | . |
| Total | 36, 251(c) | 11,865(c) | 36,254(c) | 16,385(c) | 1,000(c) | 1,381(c) |

## (a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.
(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)
All establishments: United Kingdom

| Ages |  |  |  |
| :--- | :---: | :---: | :---: |
| Mal es | Femal es | All employees |  |
|  | Per cent. | Per cent. | Per cent. |
|  | 2 | 1 | 3 |
|  | 77 | 20 | 97 |
|  | 79 | 21 | 100 |

Source: Department of Employment
(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for Which the information is avail able on the basis of
St andard Industrial Cl assification, (Revised 1968).

Footnotes to Table 4.
(a) Some establishments employing fewer than 25 persons wer included in returns for larger establishments. These amounted to 11 establishments in 1968 and 14 in 1963.
(b) The method of classi fying returns to sub-divisions of
the industry is expl ained in the notes; the characteristic
products of each sub-division are identified in Table 5 . 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 otal for the industry to the extent th
returns for more than one sub-division.
(d) Including services rendered to other organisations (amount Including services rendered to other organisations (anoun
charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other
services rendred)
(e) Characteristic products relate only to sub-divisions of the
(e) industry.
(f) For sub=divisions of the industry, this is the ratio of sor sub=divisions of the industry, characteristic products to total sales of good
sales 0 of
produced and work done. For the industry as a whole produced and work done. For the industry as a whole,
this is the ratio of total sales of principal products by this is the ratio of total sales of principal products by
the industry to total sales of goods produced and work the in
done.
(g) Administrative, technical and clerical employees.
(h) Excluding expenditure for establishments not yet in
duction
(i) Acquisitions less disposals

TABLE 4 Analysis of larger establishments, 1963 and 1968 Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)


TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom


TABLE 5 (continued)

|  |  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | Value | Quantity | Value | Enterprises | Entries |
| 01 | Copper (including cadmium copper) (c) | Th.tons | £'000 | Th.tons | £'000 | Number | 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) |  |  |  |  |  |  |
|  | Blister (including rough copper) | 12.8 | 3,096 | 7.6 | 3,442 | * | * |
|  | Electrolytic | 33.5 | 7,954 | 52.5 | 26,771 | 8 | 10 |
|  | Fire refined | 115 | 27,644 | 71.4 | 36,587 | 7 | 10 |
|  | Continuous castings |  | (d) | .. | 4,466 | * | * |
| 02 | High conductivity strip and foil | 33.3 | 12,276 | 17.4 | 11,183 | 11 | 13 |
| 02 | Plates, sheets or strip (other than high conductivity) |  |  |  |  |  |  |
|  | $3 / 8$ inch thick and over | 4.4 | 1,346 | 1.7 | 1,396 | 5 | 5 |
|  | 0 ther sheets, strip, foil, discs and circles | 42.4 | 14,238 | 54.2 | 33,985 | 12 | 15 |
| 02 | Rods, sections, shapes and angles, and wire not in coils <br> Wi re rods |  |  |  |  |  |  |
|  | High conductivity | 123 | 31,953 | 105 | 55,562 | 6 | 8 |
|  | 0 ther | 0.4 | 141 |  | 428 | * | * |
|  | Shapes and angles | 2.0 | 1,066 |  | 428 |  | * |
|  | 0ther rods, sections and wire not in coils |  |  |  |  |  |  |
|  | Rolled | 52.3 | 13,771 | 13.0 | 7,254 | * | * |
|  | Extruded | 4.0 | 1,380 | 10.9 | 6,742 | 8 | 9 |
| 02 | Tube shells | 24.8 | 5,598 | 22.2 | 11,194 | 7 | 10 |
| 02 | Tubes |  |  |  |  |  |  |
|  | Solid drawn of circular section | 77.4 | 29,584 | 56.3 | 40,381 | 17 | 23 |
|  | 0 ther | .. | 424 | .. | 5,244 | 7 | 7 |
| 02 | Copper castings (other than contin uous castings and engineers' and mechanicians' goods, etc) (e) | . | 464 |  | 2,098 | 19 | 19 |
| 02 | Copper powder | 0.8 | 280 | 1.5 | 932 | * | * |
| 02 | 0 ther manufactures of copper not elsewhere specified | 5.0 | $\begin{aligned} & 1,770 \\ & 556(\mathrm{f}) \end{aligned}$ | 10.5 | $\begin{aligned} & 5,133 \\ & 2,144 \end{aligned}$ | \} 26 | 30 |
|  | Total copper and manufactures thereof | 531 | $\begin{array}{r} 152,098 \\ 1,445 \end{array}$ | 424 | $\begin{array}{r} 240,563 \\ 14,380 \end{array}$ |  |  |
|  | Other products |  | 1,412 |  | 149 | 10 | 12 |
|  | Waste products |  |  |  |  |  |  |
|  | Scrap metals | 31.3 | 6,441 | 25.9 | 11,328 | 41 | 52 |
|  | Brass and other copper alloys (including nickel silver and cupronickel, but excluding all other nickel alloys) | 17.6 | 2,563 | 20.4 | 6,277 | 73 | 88 |
|  | Lead | 1.0 | 59 | 1.8 | 160 | 10 | 13 |
|  | Zinc | 0.7 | 42 | 0.2 | 11 | 7 | 8 |
|  | 0 ther scrap metals |  | 306 | .. | 1,124 | 60 | 74 |
|  | Concentrates metallic residues, wastes etc not elsewhere specified Other waste products |  | 1,591 $\{$ | . | 2,547 126 | 28 | 42 12 |

TABLE 5 (continued)

|  |  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | Value | Quantity | Value | Enterprises | Entries |
|  | Work done |  | £’000 |  | £’000 | Number | Number |
|  | Repair work |  | 133 |  | 117 | * | * |
| 02 | Casting of ingots, billets, etc of brass and other copper alloys |  | 901 |  | 682 | 10 | 11 |
| 02 | Rolling of copper, brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) <br> Other work done |  | 237 |  | 134 | 13 | 14 |
|  |  |  | 592 |  | 457 | 19 | 23 |
|  | Total |  | 302,478 |  | 491,420 | .. | ... |
|  | Sales in other industries (see Table 6) |  | 36,232 |  | 56,964 |  | . |
|  | Principal products of this industry sold by establishments in the industry |  | $266,245$ |  | 434,455 | 132 | 171 (g) |

a) The number given is that of the sub-division of which the item is a characteristic product. The sal
shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.
(b) For 1963 cadmium copper was not specifically excluded
(c) For 1963 cadmium copper was not specifically included.
(d) Not separately distinguished for 1963.
(e) For 1963 continuous castings were not specifically excluded.
(f) For 1963 includes unclassified 'other rods, sections and wire not in coils'
(g) This figure represents the total number of returns made for larger establishments in this industry which
is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by large establ ishments classified to other industries, 1963 and 1968
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries | $\begin{gathered} \text { Principal } \\ \text { industries } \\ \text { in which } \\ \text { produced }(\mathrm{a}) \\ \hline \end{gathered}$ |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys, and cadmium copper) | Th.tons | £'000 | Th. tons | £’000 | Number |  |
| Ingots, blocks, slabs, billets, bars, (including wire bars), other refinery shapes and cast strip | 9.6 | 2,117 | 3.3 | 1,819 | 10 | 47, 49, 80 |
| Continuous castings not included above | 2.0 | 1,043 327 | \} 0.7 | 485 | 11 | 45, 47, 52 |
| Plates, sheets, foil, strip, discs and circles | 0.9 | 458 | 0.8 | 794 | 4 | 49,93 |
| Round brass rods and other rods, sections and wire not in coils | 5.5 | 1,490 | 1.1 | 827 | 7 | 47, 49, 91 |
| Castings (other than continuous) and pressings and stampings not elsewhere specified |  |  |  |  |  |  |
| Machined castings | 2.2 | 1,033 147 | 1.6 | 1,349 400 | \} 32 | 45, 47, 80, 82 |
| Rough castings | 2.4 | 1,173 100 | 2.7 | 2,095 1,087 | $\} 72$ | 44, 46, 47, 82 |
| Stampings and pressings which are the product of drop stamping or hot pressing | 4.2 | 2,178 $\{$ | 1.5 | $\begin{aligned} & 734 \\ & 535 \end{aligned}$ | $\} 20$ | 65,82,95,97 |
| Pressings in sheet metal | 1.0 | 975 1,134 | 0.6 | $\begin{aligned} & 715 \\ & 926 \end{aligned}$ | $\} 94$ | 47, 93, 97, 150 |
| Other manufactures of brass and other copper alloys, not elsewhere specified | .. | 2,081 | .. | 3,138 | 19 | 45,49, 82,97 |
| Total brass and other copper alloys and manufactures thereof | 27.8 | $\begin{array}{r} 10,467 \\ 3,789 \\ \hline \end{array}$ | 12.3 | $\begin{aligned} & 8,818 \\ & 6,086 \end{aligned}$ |  |  |
| Copper (including cadmium copper) : |  |  |  |  |  |  |
| Unwrought: ingots, blocks, slabs, ingot bars, wire bars, billets, cakes, cathodes and anodes, including rough or over | 16.3 | 3,888 | 14.7 | 7,520 | 8 | 27,49,72 |
| High conductivity strip and foil | 11.4 | 3,893 | 5.5 | 4,016 | 5 | 72,91 |
| Plates, sheets or strip (other than high conductivity): rods, sections, shapes and angles, and wire not in coils | 46.5 | 11,656 | 47.1 | 25,055 | 8 | 49,72,91,93 |
| Copper castings (other than continuous castings and engineers, and mechanicians' goods, etc) | . | 157 | .. | 686 | 11 | 47,63 |
| Other manufactures of copper not el sewhere specified | .. | 2,382 | . | 4,783 | 17 | 27,45,72,96 |
| Total copper and manufactures thereof | 72.6 | $\begin{array}{r} 19,394 \\ 2,582 \end{array}$ | 67.3 | $\begin{array}{r} 36,573 \\ 5,488 \end{array}$ | \} |  |
| Total |  | 36, 232 |  | 56,964 | .. |  |

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

TABLE 7 Sales of other than principal products by large establ ishments in the industry, 1963 and 1968 Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | 1963 | 1968 |
| :--- | ---: | ---: |
|  | Value | Value |
|  | $£^{\prime} 000$ | $£^{\prime} 000$ |
| Metallic compounds and other chemical products | 1,276 | 179 |
| Metal manufactures |  |  |
| 0f i ron and steel |  |  |
| Castings of steel, ingots, tubes, etc |  |  |
| Stampings and pressings |  |  |

TABLE 8 Production of certain principal products of the industry by larger establ ishments, 1963 and 1968

This table is not applicable to this industry

TABLE 9 Purchases by larger establishments of selected principal products of the industry 1968 (a) Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

| Standard Industrial Classi- <br> fication <br> Minimum List Heading | Purchasing industry (b) | Brass and other copper alloys (including nickel silver and cupro-nickel but excluding all other nickel alloys and cadmium copper) |  | Copper (including cadmium copper) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | Cost | Quantity | Cost |
|  |  | Th.tons | £'000 | Th.tons | £'000 |
| 321 | Aluminium and aluminium alloys | 3.9 | 1,818 |  | (c) |
| 322 | Copper, brass and other copper alloys | 80.8 | 34,556 | 366 | 181,564 |
| 333 | Pumps, valves and compressors | 29.6 | 13,380 1,944 |  | (c) |
| 339/9 | Miscellaneous (non-electrical) machinery | 4.1 | 2,315 |  | (c) |
| 349 | General mechanical engineering | 17.0 | $\begin{aligned} & 7,916 \\ & 1,060 \end{aligned}$ |  | (c) |
| 354 | Scientific and industrial instruments and systems | 11.2 | 5,082 1,643 |  | (c) |
| 361 | Electrical machinery | 11.8 | 6,559 | 17.9 | 11,457 |
| 362 | Insulated wire and cables |  | 1,709 | 224 | 114,543 |
| 363 | Telegraph and telephone apparatus and equipment | 4.3 | 2,985 |  | (c) |
| 364 | Radio and electronic components | . | 3,535 |  | (c) |
| 368 | Electric appliances primarily for domestic use | 4.4 | $\begin{aligned} & 2,902 \\ & 369 \end{aligned}$ | 5.4 | $\begin{aligned} & 4,273 \\ & 1,121 \end{aligned}$ |
| 369 | Miscellaneous electrical goods | 13.6 | $\begin{aligned} & 7,430 \\ & 1 \end{aligned}$ | \} | (c) |
| 370 | Shipbuilding and marine engineering | 2.7 | 1,749 570 | \} | (c) |
| 381 | Motor vehicle manufacturing | 23.7 | 11,176 | 9.5 | 4,883 |
| 393 | Bolts, nuts, screws, rivets etc | 9.2 | 4,007 |  | (c) |
| 394 | Wire and wire manufactures | 6.4 | $\begin{array}{r} 2,667 \\ 110 \end{array}$ | \} 31.0 | 15,260 |
| 396 | Jewellery and precious metals | . | 2,833 | 9.6 | 4,726 |
| 399/8 | Miscellaneous metal goods | 62.9 | $\begin{gathered} 27,062 \\ 228 \end{gathered}$ | 15.4 | 9,661 |
| 500 | Construction |  |  | 19.4 | 8,430 7,898 |
|  | Other industries | 31.3 | $\begin{array}{r} 14,698 \\ 2,567 \end{array}$ | 191 | $\begin{array}{r} 29,405 \\ 2,937 \end{array}$ |
|  | Total | 317 | $\begin{array}{r} 146,302 \\ 18,186 \end{array}$ | 889 | $\begin{array}{r} 384,203 \\ 11,957 \end{array}$ |

(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 at least one
(c) Included in the total for ' 0 ther industries'.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

|  |  |  |
| :--- | ---: | ---: | ---: | ---: |

## TABLE 10 (cont inued)

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quant ity | Cost |
| Materials for use in production (continued) | Th.tons | £ 000 | Th. tons | $£^{\prime} 000$ |
| Alloying materials not elsewhere specified (eg silicon, cadmium chrome, manganese, cobalt) | 4.7 | 1,423 | 2.5 | 1,328 |
| Scrap (including all forms of scrap material purchased, not elsewhere specified) |  |  |  |  |
| Aluminium and aluminium alloys | 0.1 | 12 | 10.8 | 1,761 |
| Brass and other copper alloys (including nickel <br> silver and cupro-nickel, but excluding all other <br> nickel alloys and cadmium copper) (a) | 176 | 27,415 | 225 | 61,488 |
| Copper (including cadmium copper) (c) | 162 | 28,473 | 168 | 73,948 |
| Lead | 7.2 | 418 | 2.2 | 199 |
| Zinc | 1.5 | 87 | 1.5 | 100 |
| Zinc base alloys | . | 25 | .. | 24 |
| 0 ther | .. | 2,203 | . | 1,795 |
| Iron and steel in all forms except finished parts,wire and scrap | 8.1 | 1,022 | 18.3 | 1,580 |
| Explosive powders |  | (f) | Th. cwt 5.1 | 233 |
| Lubricating oils and greases | $\begin{array}{r}\text { Th.gal } \\ \hline 299\end{array}$ | 82 128 | Th.gal. 1, 370 | 311 62 |
| Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement |  |  |  |  |
| Tyres and other spare parts for firms' own road goods vehicles |  | 3,202 | . | 147 |
| 0 ther |  |  | .. | 3,413 |
| All other materials for use in production | . | 7,096 | .. | 9,627 |
| Packaging materials |  |  |  |  |
| Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal) |  |  | .. | 73 |
| 0 ther packaging materials of paper and paperboard (including moulded pulp units and labels, but excluding boxes, cartons, packing cases, drums, canisters, bags and multiwall paper sacks and paper and board for converting into packaging materials) | $\int^{\cdots}$ | 92 |  | 77 |
| Metal barrels, kegs and drums | $\begin{array}{\|c} \text { Thousands } \\ 63.7 \end{array}$ | 30 | Thousands 67.5 | 37 |
| Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates | .. | 277 |  | 178 |
| All other packaging materials |  | 281 | .. | 553 |
| Fuel and electricity (g) | Th. tons |  | Th. tons |  |
| Coal | 142 | 562 | 60.6 | 374 |
| Coke (including screenings) and manufactured fuel | 24.9 | 249 | 14.5 | 181 |
| Derv fuel and motor spirit for use in road vehicles | $\begin{array}{r} \text { Th. gal. } \\ 1,263 \end{array}$ | 223 | $\begin{array}{r} \text { Th. gal. } \\ 1,280 \end{array}$ | 333 |
| Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases) | 27,407 | 1,249 | 36,449 | 1,700 |
| Gas | $\begin{gathered} \text { Th } \text {.therms } \\ 19,451 \end{gathered}$ | 1,228 | $\begin{aligned} & \text { Th. therms } \\ & 18,403 \end{aligned}$ | 1,236 |

TABLE 10 (continued)

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
| Fuel and electricity (g) (continued) | Th. kWh | £'000 | Th. kWh | £'000 |
| Electricity | 560,491 | 3,082 | 575,753 | 4,138 |
| All other fuels |  | (f) | .. | 103 |
| Total cost of materials and fuel |  | 225,335 |  | 396,640 |
| Goods purchased for merchanting |  | 13,091 |  | 32,384 |
| Canteen purchases |  | 465 |  | 507 |
| Total cost of purchases |  | 238,892 |  | 429,531 |

(a) For 1963 cadmium copper was not specifically excluded.
(b) For 1963 rods were not specifically included.
(c) For 1963 cadmium copper was not specifically included.
(d) For 1963 described as ' 0 ther than fire refined'
(e) For 1963 imported refined lead was described as 'Imported virgin lead (excluding lead bullion)'
(f) Not recorded separately for 1963 .
(g) Owing to the risk of disclosure rel ating to individual firms the total quantity of electricity
generated in firms own establishments in 1968 and 1963 cannot be given.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968
Establ ishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | Unit | 1963 | 1968 |
| :---: | :---: | :---: | :---: |
| Average number mainly employed on transport | No. | 729 | 796 |
| Transport costs |  |  |  |
| Wages and salaries | £'000 | 590 | 987 |
| Derv fuel and motor spirit | " | 223 | 333 |
| Tyres and other spare parts for road goods vehicles | " | .. | 147 |
| by road | " |  | 2, 160 |
| Payments to other organisations for transport $\quad\left\{\begin{array}{l}\text { by rail and other } \\ \text { means excluding } \\ \text { postal services }\end{array}\right.$ | " | \} 2,027 | 165 |
| Costs of operating road goods vehicles |  |  |  |
| Insurance | " | 34 | 47 |
| Vehicle licences | " | 39 | 84 |
| Depreciation | " | 245 | 516 |
| Payments to other organisations for repairs and maintenance | " | 111 | 121 |
| Total | " | 3,268(a) | 4,560 |

(a) Excluding tyres and other spare parts for road goods vehicles,
not collected separately for 1963 .

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

|  | Amount payable |  |
| :--- | ---: | ---: |
|  | 1963 | 1968 |
| Repairs and maintenance to | $£ ' 000$ | $£, 000$ |
| Buildings | 371 | 344 |
| Road goods vehicles | 111 | 121 |
| Plant, machinery and other capital equipment | 1,394 | 1,928 |
| Insurance, licensing and depreciation of road goods |  |  |
| vehicles (b) | 318 | 647 |
| Rates, excluding water rates | 913 | 1,387 |
| Hire of plant and machinery | 73 | 248 |
| Postage, telephone, telegrams, cables and telex (c) | 446 | 641 |

(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.
(c) Excluding telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

| Year ended | Percentage <br> of total returns <br> received | Percentage <br> of otal number <br> employed |
| :--- | :---: | :---: |
| 1968 (a) | Per cent. | Per cent. |
| April (a) | 1.8 | 0.4 |
| May | 0.0 | 0.0 |
| June | 4.1 | 0.9 |
| July | 6.4 | 20.8 |
| August | 1.2 | 0.1 |
| September | 1.8 | 3.0 |
| 0ctober | 1.2 | 1.2 |
| November | 54.4 | 0.3 |
| December |  | 59.7 |
| 1969 | 2.9 | 2.4 |
| January | 2.4 | 0.8 |
| February | 16.2 | 10.1 |
| March | 1.2 | 0.3 |
| April (b) | 100 | 100 |

(a) From 6 April.
(b) To 5 April.

