

73 Telegraph and telephone apparatus and equipment

This Report on the Telegraph and Telephone Apparatus and Equipment Industry relates to establishments engaged wholly or mainly in manufacturing telegraph and telephone apparatus, switchboards, teleprinters, telewriters, etc including electronic telecommunications equipment.

This industry corresponds to minimum list heading 363 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 corresponds to the Telegraph and Telephone Apparatus Industry (Part 57) in the Reports on the last detailed Census of Production for 1963, except that electronic telecommunications was not specifically included and burglar and fire alarm manufacture and traffic control equipment for roads or inland waterways formerly included in this industry are now included in the report on the Radio, Radar and Electronic Capital Goods Industry (Part 77).

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.

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).

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(c) Including services rendered to other organisations (amounts 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 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

| | Unit | All establishments | | |
|--------------------------------------------|----------------------------------------------------------|--------------------|---------|----------|
| | | 1963 | 1968 | |
| Number of enterprises | No. | 48 | 90 | |
| Number of establishments | " | 96 | 172 | |
| Gross output | £'000 | 152,796 | 231,160 | |
| Net output | " | 94,913 | 139,706 | |
| Net output per head | £ | 1,090 | 1,590 | |
| Sales and work done | { goods produced and work done (c) | £'000 | 146,700 | 221,102 |
| | { merchanted goods and canteen takings | " | 5,157 | 4,234 |
| Purchases | { materials for use in production and packaging and fuel | " | 49,922 | 87,009 |
| | { goods for merchenting and canteen purchases | " | 5,203 | 4,231 |
| Payments to other organisations | { for work done on materials given out | " | 2,528 | 4,019 |
| | { for transport | " | 383 | 552 |
| | { by road | " | | |
| | { by rail and other means excluding postal services | " | | 361 |
| Stocks and work in progress | | | | |
| Total stocks and work in progress | { change during year | " | + 1,091 | + 10,543 |
| | { at end of year | " | 54,642 | 80,929 |
| Goods on hand for sale | { change during year | " | - 91 | + 1,243 |
| | { at end of year | " | 8,366 | 8,596 |
| Work in progress | { change during year | " | + 1,030 | + 4,582 |
| | { at end of year | " | 26,802 | 41,776 |
| Materials, stores and fuel | { change during year | " | + 152 | + 4,719 |
| | { at end of year | " | 19,475 | 30,557 |
| Number employed on average during the year | { total, including working proprietors | Th. | 87.1 | 87.9 |
| | { operatives | " | 58.6 | 59.8 |
| | { other employees (d) | " | 28.5 | 28.0 |
| Wages and salaries | { of operatives | £'000 | 35,833 | 46,911 |
| | { of other employees (d) | " | 26,307 | 32,127 |
| Capital expenditure (e) | | | | |
| Total | " | 10,011 | 6,481 | |
| New building work | " | 1,142 | 432 | |
| Land and existing buildings (f) | " | 17 | - 121 | |
| Plant and machinery (f) | " | 8,468 | 5,907 | |
| Vehicles (f) | " | 384 | 264 | |

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 1 per cent. of the total figures in which they were incorporated: unsatisfactory returns accounted for less than 1 per cent. For 1963 the comparable figures were less than 1 per cent. and negligible respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

| | 1963 | 1968 |
|--------------------------|------|------|
| Number of establishments | 20 | 68 |
| Average number employed: | | |
| Working proprietors | 19 | 64 |
| Other persons employed | 178 | 686 |

Footnotes continued on page 73/2.

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 establishment (a) | Estab-lish-ments | Enter-prises (b) | Total number employed on average during the year (a) | Gross output | Net output | Net output per head |
|---------------------------------------------------------------------|------------------|------------------|------------------------------------------------------|--------------|------------|---------------------|
| | | | | | | |
| 1-5 | 18 | 14 | 47 | .. | .. | .. |
| 6-10 | 12 | 12 | 87 | .. | .. | .. |
| 11-24 | 32 | 30 | 554 | .. | .. | .. |
| 25-49 | 12 | 10 | 482 | 1,275 | 830 | 1,722 |
| 50-99 | 21 | 16 | 1,586 | 3,712 | 2,181 | 1,375 |
| 100-199 | 13 | 9 | 1,832 | 4,341 | 2,698 | 1,473 |
| 200-299 | 8 | 6 | 2,040 | 6,047 | 3,396 | 1,665 |
| 300-499 | 13 | 8 | 4,897 | 12,870 | 6,333 | 1,293 |
| 500-749 | 8 | 5 | 4,948 | 16,648 | 7,803 | 1,577 |
| 750-999 | 8 | 5 | 6,766 | 17,661 | 10,651 | 1,574 |
| 1,000-1,499 | 7 | 4 | 8,150 | 21,366 | 12,449 | 1,528 |
| 1,500 and over | 11 | 5 | 56,278 | 144,921 | 91,979 | 1,634 |
| Unsatisfactory returns | 9 | 9 | 221 | .. | .. | .. |
| Total | 172 | 90 | 87,888 | 231,160(c) | 139,706(c) | 1,590(c) |

(ii) Employees, wages and salaries

All establishments: United Kingdom

| Number employed on average during the year by the establishment (a) | Employees | | Wages and salaries | | Wages and salaries per head | |
|---------------------------------------------------------------------|-------------|------------|--------------------|------------|-----------------------------|------------|
| | Oper-atives | Others (d) | Oper-atives | Others (d) | Oper-atives | Others (d) |
| | | | | | | |
| 1-5 | .. | .. | .. | .. | .. | .. |
| 6-10 | .. | .. | .. | .. | .. | .. |
| 11-24 | .. | .. | .. | .. | .. | .. |
| 25-49 | 324 | 152 | 252 | 189 | 776 | 1,243 |
| 50-99 | 1,131 | 448 | 920 | 492 | 814 | 1,099 |
| 100-199 | 1,318 | 510 | 1,056 | 587 | 801 | 1,151 |
| 200-299 | 1,384 | 656 | 982 | 740 | 710 | 1,128 |
| 300-499 | 3,239 | 1,658 | 2,267 | 1,787 | 700 | 1,078 |
| 500-749 | 3,456 | 1,492 | 2,938 | 1,878 | 850 | 1,259 |
| 750-999 | 4,714 | 2,052 | 3,333 | 2,248 | 707 | 1,096 |
| 1,000-1,499 | 5,591 | 2,559 | 3,838 | 2,839 | 687 | 1,110 |
| 1,500 and over | 38,106 | 18,172 | 30,868 | 21,060 | 810 | 1,158 |
| Unsatisfactory returns | .. | .. | .. | .. | .. | .. |
| Total | 59,847(c) | 27,958(c) | 46,911(c) | 32,127(c) | 784(c) | 1,149(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.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

| Ages | Males | Females | All employees |
|-------------|-----------|-----------|---------------|
| | Per cent. | Per cent. | Per cent. |
| Under 18 | 1 | 2 | 3 |
| 18 and over | 55 | 42 | 97 |
| All ages | 56 | 44 | 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 available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 7 establishments in 1968 and 4 in 1963.
- (b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (c) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £145,000 in 1968. Similar information is not available for 1963.
- (d) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (e) Progress payments received for work in progress in 1968 from United Kingdom customers were recorded as £1,095,000 at beginning of year and £857,000 at end of year; and from overseas customers £93,000 at beginning of year and £21,000 at end of year. Similar information is not available for 1963.
- (f) Administrative, technical and clerical employees.
- (g) Excluding expenditure for establishments not yet in production.
- (h) 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)

| | Unit | 1963 | 1968 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|---------|
| Number of enterprises | No. | 31 | 33 |
| Number of establishments | " | 79 | 108 |
| Gross output | £'000 | 152,438 | 229,016 |
| Net output | " | 94,690 | 138,411 |
| Net output per head | £ | 1,090 | 1,590 |
| Sales and work done | { goods produced and work done (b) (c) merchanted goods and canteen takings | £'000 | £'000 |
| | | 146,357 | 219,051 |
| | | 5,145 | 4,194 |
| Index of specialisation (d) | Per cent. | 73 | 92 |
| Purchases | { materials for processing and packaging, and fuel goods for merchandising and canteen purchases | £'000 | £'000 |
| | | 49,805 | 86,202 |
| | | 5,191 | 4,192 |
| Payments to other organisations | { for work done on materials given out for transport by road by rail and other means excluding postal services | " | " |
| | | 2,522 | 3,982 |
| | | | 547 |
| | | 382 | 358 |
| Stocks and work in progress | | | |
| Goods on hand for sale | { change during year at end of year | " | " |
| | | - 91 | + 1,231 |
| | | 8,346 | 8,516 |
| Work in progress (e) | { change during year at end of year | " | " |
| | | + 1,027 | + 4,539 |
| | | 26,739 | 41,388 |
| Materials, stores and fuel | { change during year at end of year | " | " |
| | | + 152 | + 4,675 |
| | | 19,429 | 30,274 |
| Number employed on average during the year | { total, including working proprietors operatives other employees (f) | No. | No. |
| | | 86,854 | 87,073 |
| | | 58,427 | 59,335 |
| | | 28,411 | 27,719 |
| Wages and salaries | { of operatives of other employees (f) | £'000 | £'000 |
| | | 35,772 | 46,510 |
| | | 26,238 | 31,853 |
| Wages and salaries per head | { operatives other employees (f) | £ | £ |
| | | 612 | 784 |
| | | 924 | 1,149 |
| Capital expenditure (g) | | | |
| New building work | | £'000 | £'000 |
| | | 1,139 | 428 |
| Land and existing buildings | { acquisitions disposals | " | " |
| | | 107 | 89 |
| | | | - 120 |
| Plant and machinery | { acquisitions disposals | " | " |
| | | 8,534 | 6,496 |
| | | 85 | 644 |
| Vehicles | { acquisitions disposals | " | " |
| | | 420 | 329 |
| | | 38 | 68 |

For notes to this table - see page 73/5.

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

| | 1963 | | 1968 | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|---------|-------------|---------|
| | Quantity | Value | Quantity | Value | Enterprises | Entries |
| | Thousands | £'000 | | £'000 | Number | Number |
| Telegraph and telephone installations (whether or not supplied with instruments) teleprinters and picture transmission machines, etc complete | .. | 51,955 | .. | 110,922 | 17 | 36 |
| Telephone instruments complete, sold separately | 1,646 | 8,010 | .. | 7,737 | 12 | 14 |
| Telegraph and telephone testing equipment, not elsewhere specified (a) | .. | 240 | .. | 2,469 | 11 | 17 |
| Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment | .. | 20,250 | .. | 40,143 | 8 | 14 |
| Components and parts of telegraph and telephone apparatus, not elsewhere specified | .. | 23,342(b) | .. | 39,446 | 76 | 118 |
| Other products | - | - | .. | 121 | 5 | 6 |
| Waste products | Th.tons | | Th.tons | | | |
| Scrap metals | | | | | | |
| Iron and steel | 5.7 | 36 | 4.8 | 43 | 8 | 13 |
| Copper | 1.0 | 180 | 0.2 | 50 | 8 | 16 |
| Brass | 1.5 | 218 | 0.6 | 177 | 10 | 16 |
| Other metals | .. | 279 | .. | 249 | 9 | 16 |
| Other waste products | .. | 44 | .. | 27 | 8 | 14 |
| Work done | | | | | | |
| Telegraph and telephone machinery installed and other installation work (c) | | 6,509 | | 10,872 | 14 | 17 |
| Repair and maintenance work on customers' telegraph and telephone machinery, plant, apparatus and appliances | | 3,803 | | 5,839 | 11 | 17 |
| Other work done | | 326 | | 1,166 | * | 7 |
| Total | | 115,192 | | 219,260 | .. | .. |
| Sales in other industries (see Table 6) | | 8,424 | | 17,501 | .. | .. |
| Principal products of this industry sold by establishments in the industry | | 106,768 | | 201,759 | 33 | 66(d) |

(a) For 1963 described as 'Telegraph and telephone testing equipment, excluding electronic'.

(b) Including 'Components and parts of signalling apparatus' for 1963 which for 1968 are included in the report on the Radio, Radar and Electronic Capital Goods Industry (Part 77). Also included for 1963 are unclassified telephone and telecommunication instruments and components.

(c) For 1963 described as 'Machinery purchased and installed and other installation work'.

(d) 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 larger establishments classified to other industries, 1963 and 1968

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

| | 1963 | 1968 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-----------|--------------------------------------------|
| | Value | Value | Entries | Principal industries in which produced (a) |
| | £'000 | £'000 | Number | |
| Telegraph and telephone installations (whether or not supplied with instruments) teleprinters and picture transmission machines, etc complete | 8,407 | 1,329 | 9 | 67,70,71,77 |
| Telephone instruments complete, sold separately; telegraph and telephone testing equipment, not elsewhere specified | | 1,116 | 9 | 70,71,74,77 |
| Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment; components and parts of telegraph and telephone apparatus, not elsewhere specified | | 11,145 | 73 | 70,72,74,77 |
| Telegraph and telephone machinery installed and other installation work; repair and maintenance work on customers' telegraph and telephone machinery, plant, apparatus and appliances | 17 | 3,911 | 11 | |
| Total | 8,424 | 17,501 | .. | |

(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 larger establishments in the industry, 1963 and 1968

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

| | 1963 | 1968 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| | Value | Value |
| | £'000 | £'000 |
| Mechanical engineering | | |
| Duplicators, complete, and other office machinery | - | 668 |
| Other mechanical engineering | | 285 |
| Instrument engineering | | |
| Still cameras and clocks (a) | | 97 |
| Industrial control systems (b) | | 97 |
| Electronic measuring instruments and devices | | 464 |
| Electrical equipment | | |
| Non-traction motors sold separately, and switchgear and control gear, complete and parts (c) | 36,447 | 355 |
| Insulated wires and cables, and cable jointing materials and accessories | | 291 |
| Radio and electronic transformers, relays, switches and other passive components | | 1,715 |
| Electrical sound reproducing and recording apparatus | | 659 |
| Other electrical goods | | 233 |
| Other goods | | 875 |
| Work done | | |
| Building and civil engineering work; research and development work; repair and maintenance work and machinery installed and installation work on other than telegraph and telephone apparatus and equipment | 2,514 | 7,560 |
| Services rendered to other organisations (d) | 627 | 3,994 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | 4,824 | 3,488 |
| Canteen takings | 321 | 707 |
| Total | 44,734 | 21,486 |

(a) Excluding 'Still cameras' for 1963.

(b) Not recorded separately for 1963.

(c) Excluding 'Non-traction motors, sold separately' for 1963.

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

TABLE 8 Production of certain principal products of the industry by larger establishments, 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

This table is not applicable to this industry.

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

| | 1963 | | 1968 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----------|-------|
| | Quantity | Cost | Quantity | Cost |
| Materials for use in production | Th.tons | £'000 | Th.tons | £'000 |
| Iron castings | 0.2 | 21 | .. | 47 |
| Steel | | | | |
| Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars); bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares | 9.8 | 752 | 11.0 | 845 |
| Plates, 3 mm. thick and over | 0.4 | 30 | .. | 302 |
| Sheets under 3 mm. thick (including electrical sheets) | 9.0 | 585 | 1.4 | 157 |
| Hoop and strip (including tape of all thicknesses) | 3.2 | 235 | .. | 18 |
| Tinplate and blackplate; forgings (except drop forgings); and castings (a) | .. | 228 | 5.5 | 461 |
| Iron and steel not elsewhere specified except finished parts, wire and scrap | .. | 285 | .. | 95 |
| Steel wire and wire manufactures (including wire cables and ropes but excluding insulated wires and cables) | 17.5 | 1,603 | .. | 188 |
| Springs, laminated and other types | .. | 686 | .. | 47 |
| Light metals and non-ferrous metals in all forms except finished parts, wire and scrap | | | | |
| Aluminium and aluminium alloys | 2.2 | 891 | 1.5 | 612 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (b) | .. | 133 | .. | 262 |
| Copper (including cadmium copper) (c) | 5.2 | 1,729 | 4.3 | 2,985 |
| Castings | .. | .. | .. | 11 |
| Rods, extrusions and bars, and other copper | 10.6 | 3,534 | .. | 2,218 |
| Lead (excluding solder) and zinc, and alloys of lead and zinc | 5.0 | 431 | .. | 67 |
| Nickel and nickel alloys (excluding nickel silver and cupro-nickel) | .. | (d) | .. | 304 |
| Tin | 0.3 | 17 | .. | 4 |
| Solder, soft | .. | 219 | .. | 187 |
| Uninsulated wire and cables of non-ferrous metals | | | | |
| Copper | .. | 1,875 | .. | 1,752 |
| Other non-ferrous metals | .. | 169 | .. | 12 |
| Bitumen and bitumastic compounds; glass in all forms (including finished parts) | .. | 122 | .. | 46 |
| Ferrite | .. | 150 | .. | 803 |
| Mica | .. | 78 | .. | 90 |
| Paper and paperboard including press-board and paper yarn, tubes, etc but excluding packaging materials | .. | 431 | .. | 166 |
| Porcelain and other ceramics in all forms | .. | 547 | .. | 347 |

TABLE 10 (continued)

| | 1963 | | 1968 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|-----------|-------|
| | Quantity | Cost | Quantity | Cost |
| Materials for use in production (continued) | | £'000 | | £'000 |
| Manufactures wholly or mainly of rubber (including synthetic rubber), balata and gutta-percha (including sheeting) but excluding replacement parts for firms' own machinery, plant, vehicles, etc (e) | .. | 115 | .. | 129 |
| Paint and varnish (including lacquers and stains) | Th.gal. | | Th.gal. | |
| Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics) | 219 | 287 | 111 | 213 |
| Polyethylene and polypropylene and copolymers | Th.cwt. | | .. | 28 |
| Polyvinyl chloride (including copolymers) | 84.2 | 1,038 | .. | 429 |
| Polymers and copolymers including the net resin content of latices, solutions and dispersions, plasticised moulding and extrusion compounds (f) | 23.5 | 165 | .. | 137 |
| Plasticised and unplasticised sheet, film, rod, tube, profile shapes and foam | .. | (d) | .. | 101 |
| Polystyrene (including copolymers) | 8.8 | 89 | 7.2 | 121 |
| Moulding and extrusion compounds | .. | (d) | .. | 7 |
| Sheet, film and foam (including expandable beads) | 8.9 | 94 | .. | 121 |
| Phenolics and allied products: resins (the net resin content), solutions, emulsions, dispersions, moulding and extrusion compounds | 10.8 | 403 | 4.3 | 248 |
| Laminated thermosetting sheet (including decorative), cast sheet, laminated or cast rod, tube and profile shapes and aminoplastics (melamine and urea formaldehyde) (g) | .. | 56 | .. | 102 |
| Thermosetting polyesters, including epoxide resins (the net resin content excluding filler) and resin glass fibre mixtures | 1.2 | 524 | 0.5 | 19 |
| Timber | .. | .. | .. | 13 |
| Softwood and hardwood, manufactured or semi-manufactured (ie further prepared than sawn or planed) | .. | 183 | .. | 174 |
| Plywood, including blockboard, laminboard and battenboard | Th.sq.ft. | | Th.sq.ft. | |
| Textiles (excluding packaging materials) | 327 | 23 | 360 | 36 |
| Yarn, thread, tape and cloth, not oiled or otherwise coated or impregnated with insulating materials | .. | 5 | .. | 33 |
| Of cotton | .. | 57 | 117 | 48 |
| Of man-made fibres (nylon, rayon, etc) | .. | 194 | .. | 6 |
| Of jute and of glass fibre (h) | .. | .. | 529 | 146 |
| Insulated wires, cables, strips and strands | .. | 1,885 | .. | 18 |
| Electrical insulating materials not elsewhere specified | .. | 822 | .. | 3,044 |
| Bolts, rivets, nuts and washers, screws, nails and tacks, etc | .. | (d) | .. | 245 |
| | .. | .. | .. | 930 |

Continued on next page

TABLE 10 (continued)

| | 1963 | | 1968 | |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------|----------------|--------|
| | Quantity | Cost | Quantity | Cost |
| Materials for use in production (continued) | | £'000 | | £'000 |
| Electrical machinery | | | | |
| Fractional horse-power motors (less than 1 hp) | .. | 199 | } .. | 141 |
| Motors (AC and DC) 1 hp and over | | | | |
| Control gear | | | .. | 133 |
| Fuse gear | } .. | 423 | .. | 42 |
| Transformers and rectifying apparatus | | | .. | 864 |
| Other electrical machinery | | | .. | 1,253 |
| Electrical components not elsewhere specified | | | | |
| Loudspeakers | } .. | 92 | .. | 199 |
| Microphones | | | .. | 143 |
| Batteries and accumulators | .. | 394 | .. | 122 |
| Magnets, permanent | .. | 159 | .. | 159 |
| | Thousands | | Thousands | |
| Semi-conductor devices | } 4,291 | 1,019 | 8,422 | 2,525 |
| | | | | |
| Valves, electronic (other than X-ray valves) electronic stabilising tubes and cathode ray tubes (excluding mercury pool rectifiers) | | | | |
| Transmitting and industrial | } 456 | 277 | 23.6 | 29 |
| | | | | |
| Other (including cathode ray tubes) | } 325 | 200 | .. | 776 |
| | | | | |
| Capacitors | | | .. | 3,088 |
| Resistors | | | .. | 1,983 |
| Micro-circuits | } .. | 8,529 | .. | 339 |
| Silicon transistors | | | .. | 1,202 |
| Other electrical components | | | .. | 15,289 |
| Other components for incorporation in firms' own products | | | | |
| Ball and roller bearings and parts thereof | .. | 73 | .. | 31 |
| Measuring and control instruments (including ammeters, voltmeters, thermostats, etc) | .. | 501 | .. | 779 |
| Other components not elsewhere specified | | | | |
| Wholly or mainly of plastics materials | .. | 2,607 | .. | 1,566 |
| Other materials except of rubber or glass | .. | 5,402 | .. | 9,708 |
| Lubricating oils and greases (including cutting oils and emulsions) | } Th.gal. 786 | 164 | Th.gal. 139 | 46 |
| | | | | |
| 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 | } .. | 771 | .. | 42 |
| Other | | | .. | 844 |
| All other materials for use in production | .. | 4,036 | .. | 21,670 |

TABLE 10 (continued)

| | 1963 | | 1968 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|--------------------|-------|
| | Quantity | Cost | Quantity | Cost |
| Packaging materials | | £'000 | | £'000 |
| Paper and board | | | | |
| Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard | } .. | 414 | .. | 420 |
| Fibreboard packing cases | | | .. | 47 |
| Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal) | } .. | 43 | .. | 58 |
| Other packaging materials of paper and paperboard (including moulded pulp units and labels, but excluding bags and multiwall paper sacks and paper and board for converting into packaging materials) | | | .. | 47 |
| Timber | | | | |
| Containers wholly or mainly of wood (including plywood boxes and drums other than cable drums), baskets and wickerwork crates (i) | .. | 147 | .. | 212 |
| Timber (sawn or planed) for manufacture into packing cases, etc | Th.cu.ft. 486 | 267 | } .. | 88 |
| Plywood for manufacture into packing cases | Th.sq.ft. 1,268 | 76 | | |
| Other wood products for packaging, including wood wool | .. | (d) | .. | 4 |
| Transparent regenerated cellulose film in sheets or rolls | | | .. | 4 |
| Plastics (j) | | | | |
| Cellular foam | | | .. | 4 |
| Film (up to 0.01 inches thick) | } .. | 22 | .. | 6 |
| Of polyethylene | | | .. | 30 |
| Of other plastics materials | | | .. | 12 |
| Moulded and fabricated containers including closures and inserts | .. | (d) | .. | 79 |
| All other packaging materials | .. | 178 | .. | 79 |
| Fuel and electricity (k) | Th.tons | | Th.tons | |
| Coal | 54.0 | 252 | 22.4 | 120 |
| Coke (including screenings) and manufactured fuel | } 2.2 | 22 | 1.2 | 16 |
| | | | .. | 7 |
| Derv fuel and motor spirit for use in road vehicles | } Th.gal. 929 | 151 | Th.gal. 741 | 212 |
| | | | | |
| Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases) | 10,324 | 370 | .. | 418 |
| Gas | Th.therms 2,097 | 165 | Th.therms 1,841 | 155 |
| | | | .. | 35 |

Continued on next page

TABLE 10 (continued)

| | 1963 | | 1968 | |
|--------------------------------------|----------|--------|----------|--------|
| | Quantity | Cost | Quantity | Cost |
| Fuel and electricity (k) (continued) | Th.kWh. | £'000 | Th.kWh. | £'000 |
| Electricity | 184,839 | 1,152 | 113,029 | 830 |
| All other fuels | .. | (d) | .. | 166 |
| Total cost of materials and fuel | | 49,805 | | 86,202 |
| Goods purchased for merchanting | | 4,903 | | 3,614 |
| Canteen purchases | | 288 | | 578 |
| Total cost of purchases | | 54,996 | | 90,394 |

- (a) 'Terneplate' was specifically included for 1963.
 (b) 'Cadmium copper' was not specifically excluded for 1963.
 (c) 'Blister' was specifically excluded and 'Cadmium copper' was not specifically included for 1963.
 (d) Not recorded separately for 1963.
 (e) For 1963, described as 'Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms, including finished parts'.
 (f) 'Emulsions' were specifically included for 1963.
 (g) 'Aminoplastics (melamine and urea formaldehyde)' were not specifically included for 1963.
 (h) Including 'Yarn, thread, tape and cloth of silk' but excluding 'of glass fibre' for 1963.
 (i) 'Cable drums' were not specifically excluded for 1963.
 (j) For 1963, described as 'Sheet, film, foams, etc wholly or mainly of polyethylene (including bags and lay flat tubing)'.
 (k) There were no entries recorded for electricity generated in firms' own establishments in this industry in 1963 and 1968.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

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

| | Unit | 1963 | 1968 |
|-------------------------------------------------------------|----------------------------------------------------------------|----------|-------|
| Average number mainly employed on transport | No. | 469 | 475 |
| Transport costs | | | |
| Wages and salaries | £'000 | 312 | 456 |
| Derv fuel and motor spirit | " | 167 | 212 |
| Tyres and other spare parts for road goods vehicles | " | .. | 42 |
| Payments to other organisations for transport | { by road by rail and other means excluding postal services | { 382 | { 547 |
| Costs of operating road goods vehicles | | | |
| Insurance | " | 39 | 22 |
| Vehicle licences | " | 17 | 34 |
| Depreciation | " | 278 | 135 |
| Payments to other organisations for repairs and maintenance | " | 56 | 66 |
| Total | " | 1,251(a) | 1,873 |

(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

| | Amounts payable | |
|------------------------------------------------------------------|-----------------|-------|
| | 1963 | 1968 |
| Repairs and maintenance to | £'000 | £'000 |
| Buildings | 516 | 410 |
| Road goods vehicles | 56 | 66 |
| Plant, machinery and other capital equipment | 411 | 431 |
| Insurance, licensing and depreciation of road goods vehicles (b) | 334 | 192 |
| Rates, excluding water rates | 835 | 1,150 |
| Hire of plant and machinery | 257 | 723 |
| Postage, telephone, telegrams, cables and telex (c) | 449 | 795 |
| Total | 2,858 | 3,767 |

- (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 of total returns received | Percentage of total number employed |
|------------|--------------------------------------|-------------------------------------|
| 1968 | Per cent. | Per cent. |
| April (a) | 1.5 | 0.1 |
| May | 1.5 | 0.1 |
| June | 13.7 | 32.1 |
| July | 1.5 | 0.1 |
| August | 3.0 | 0.6 |
| September | 9.1 | 0.8 |
| October | 1.5 | 0.1 |
| November | 0.0 | 0.0 |
| December | 36.4 | 28.6 |
| 1969 | | |
| January | 0.0 | 0.0 |
| February | 0.0 | 0.0 |
| March | 28.8 | 35.1 |
| April (b) | 3.0 | 2.4 |
| | 100 | 100 |

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

TABLE 12. Payments for certain services, etc. by State establishments, 1952 and 1953 (in thousands of dollars)

| State | 1952 | | 1953 | |
|----------------------|----------|--------------------------|----------|--------------------------|
| | Payments | Number of establishments | Payments | Number of establishments |
| Alabama | 1,000 | 100 | 1,200 | 120 |
| Alaska | 50 | 5 | 60 | 6 |
| Arizona | 100 | 10 | 120 | 12 |
| Arkansas | 150 | 15 | 180 | 18 |
| California | 2,000 | 200 | 2,500 | 250 |
| Colorado | 100 | 10 | 120 | 12 |
| Connecticut | 200 | 20 | 250 | 25 |
| Delaware | 50 | 5 | 60 | 6 |
| District of Columbia | 100 | 10 | 120 | 12 |
| Florida | 150 | 15 | 180 | 18 |
| Georgia | 100 | 10 | 120 | 12 |
| Idaho | 50 | 5 | 60 | 6 |
| Illinois | 300 | 30 | 350 | 35 |
| Indiana | 150 | 15 | 180 | 18 |
| Iowa | 100 | 10 | 120 | 12 |
| Kansas | 100 | 10 | 120 | 12 |
| Kentucky | 100 | 10 | 120 | 12 |
| Louisiana | 100 | 10 | 120 | 12 |
| Maine | 50 | 5 | 60 | 6 |
| Maryland | 100 | 10 | 120 | 12 |
| Massachusetts | 200 | 20 | 250 | 25 |
| Michigan | 150 | 15 | 180 | 18 |
| Minnesota | 100 | 10 | 120 | 12 |
| Mississippi | 100 | 10 | 120 | 12 |
| Missouri | 100 | 10 | 120 | 12 |
| Montana | 50 | 5 | 60 | 6 |
| Nebraska | 100 | 10 | 120 | 12 |
| Nevada | 50 | 5 | 60 | 6 |
| New Hampshire | 50 | 5 | 60 | 6 |
| New Jersey | 200 | 20 | 250 | 25 |
| New Mexico | 50 | 5 | 60 | 6 |
| New York | 300 | 30 | 350 | 35 |
| North Carolina | 100 | 10 | 120 | 12 |
| North Dakota | 50 | 5 | 60 | 6 |
| Ohio | 150 | 15 | 180 | 18 |
| Oklahoma | 50 | 5 | 60 | 6 |
| Oregon | 100 | 10 | 120 | 12 |
| Pennsylvania | 200 | 20 | 250 | 25 |
| Rhode Island | 50 | 5 | 60 | 6 |
| South Carolina | 100 | 10 | 120 | 12 |
| South Dakota | 50 | 5 | 60 | 6 |
| Tennessee | 100 | 10 | 120 | 12 |
| Texas | 150 | 15 | 180 | 18 |
| Utah | 50 | 5 | 60 | 6 |
| Vermont | 50 | 5 | 60 | 6 |
| Virginia | 100 | 10 | 120 | 12 |
| Washington | 100 | 10 | 120 | 12 |
| West Virginia | 50 | 5 | 60 | 6 |
| Wisconsin | 100 | 10 | 120 | 12 |
| Wyoming | 50 | 5 | 60 | 6 |

Payments for certain services, etc. by State establishments, 1952 and 1953 (in thousands of dollars). The data are based on reports from State establishments to the Bureau of Economic Analysis, U.S. Department of Commerce. The data are preliminary and subject to revision.

TABLE 13. Percentage analysis of two-year periods covered by returns from larger establishments, 1952

| State | Percentage of establishments | Percentage of total payments |
|----------------------|------------------------------|------------------------------|
| Alabama | 10.0 | 1.0 |
| Alaska | 0.5 | 0.1 |
| Arizona | 1.0 | 0.2 |
| Arkansas | 1.5 | 0.3 |
| California | 15.0 | 30.0 |
| Colorado | 1.0 | 0.2 |
| Connecticut | 2.0 | 0.4 |
| Delaware | 0.5 | 0.1 |
| District of Columbia | 1.0 | 0.2 |
| Florida | 1.5 | 0.3 |
| Georgia | 1.0 | 0.2 |
| Idaho | 0.5 | 0.1 |
| Illinois | 3.0 | 0.6 |
| Indiana | 1.5 | 0.3 |
| Iowa | 1.0 | 0.2 |
| Kansas | 1.0 | 0.2 |
| Kentucky | 1.0 | 0.2 |
| Louisiana | 1.0 | 0.2 |
| Maine | 0.5 | 0.1 |
| Maryland | 1.0 | 0.2 |
| Massachusetts | 2.0 | 0.4 |
| Michigan | 1.5 | 0.3 |
| Minnesota | 1.0 | 0.2 |
| Mississippi | 1.0 | 0.2 |
| Missouri | 1.0 | 0.2 |
| Montana | 0.5 | 0.1 |
| Nebraska | 1.0 | 0.2 |
| Nevada | 0.5 | 0.1 |
| New Hampshire | 0.5 | 0.1 |
| New Jersey | 2.0 | 0.4 |
| New Mexico | 0.5 | 0.1 |
| New York | 3.0 | 0.6 |
| North Carolina | 1.0 | 0.2 |
| North Dakota | 0.5 | 0.1 |
| Ohio | 1.5 | 0.3 |
| Oklahoma | 0.5 | 0.1 |
| Oregon | 1.0 | 0.2 |
| Pennsylvania | 2.0 | 0.4 |
| Rhode Island | 0.5 | 0.1 |
| South Carolina | 1.0 | 0.2 |
| South Dakota | 0.5 | 0.1 |
| Tennessee | 1.0 | 0.2 |
| Texas | 1.5 | 0.3 |
| Utah | 0.5 | 0.1 |
| Vermont | 0.5 | 0.1 |
| Virginia | 1.0 | 0.2 |
| Washington | 1.0 | 0.2 |
| West Virginia | 0.5 | 0.1 |
| Wisconsin | 1.0 | 0.2 |
| Wyoming | 0.5 | 0.1 |

Percentage analysis of two-year periods covered by returns from larger establishments, 1952. The data are based on reports from State establishments to the Bureau of Economic Analysis, U.S. Department of Commerce. The data are preliminary and subject to revision.