This Report on the General Chemicals (other than inorganic and organic) Industry relates to establishments engaged wholly or mainly in manufacturing chemical mixtures, excluding chemical compounds containing impurities, or to which water, solvents or stabilisers have been added solely for reasons of safety, transport or preservation. Certain organic or inorganic compounds used mainly for specific end-uses (such as hydrosulphites, hypochlorites, simple phosphate or phthalate plasticiser chemicals), nuclear fuels, and radio-active elements, compounds and isotopes are included. Pharmaceutical chemicals and preparations, dyestuffs and pesticides are excluded.

This industry corresponds to minimum list heading 271(3) 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 was included in the General Chemicals Industry (Part 27) in the reports on the last detailed Census of Production for 1963: together with the reports on General Chemicals (Organic) (Part 28) and General Chemicals (Inorganic) (Part 27) it broadly corresponds with the 1963 report on the General Chemical Industry except that creosote/pitch mixtures for use as fuel are contained in the 1968 report on Coke 0vens and Manufactured Fuel (Part 24); pharmaceutical chemicals in Pharmaceutical Chemicals and Preparations (Part 30); higher fatty alcohols in Soap and Detergents (Part 33); silicones and synthetic rubber in Synthetic Resins and Plastics Materials and Synthetic Rubber (Part 34); pigments in Dyestuffs and Pigments (Part 35); ammonium nitrate and ammonium phosphates in Fertilisers (Part 36); cellulose nitrate in Explosives, Fireworks and Matches (Part 39); and photographic developers and other compounded preparations for photographic purposes in Photographic Chemical Materials (Part 43). Compound oils (perfumery bases) were included in the 1963 report on the Toilet Preparations Industry (Part 29) but are now included in this industry.

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. Comparability of figures between 1963 and 1968 is further affected in this industry and elsewhere in the Chemical Order by differences in the reporting units of large firms engaged in distinct processes of chemical and chemical products manufacture.

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).

ABLE 1 Industry summary, 1963 and 1968

| No. | Title | Page |
| :---: | :---: | :---: |
|  | SECTION I-Estimates for al 1 establishments in the industry |  |
| 1 | Industry summary, 1963 and 1968 | 29/3 |
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| 3 | Percentage analysis of employees, by age and sex, 1969 | 29/5 |
|  | SECTION II - Analysis of returns received |  |
| 4 | Analysis of larger establishments, 1963 and 1968 | 29 |
| 5 | Sales of principal products of the industry by larger establishments, including sales by establishments cl assified to other industries, 1963 and 1968 | 29/7 |
| 6 | Sal es of principal products of the industry by larger establishments classified to other industries, 1963 and 1968 | 29/10 |
| 7 | Sales of other than principal products by larger establishments in the industry, 1963 and 1968 | 29/11 |
| 8 | Production of certain principal products of the industry by larger establishments, 1963 and 1968 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 9 | Purchases by larger establishments of sel ected principal products of the industry, 1968 | 29/12 |
| 10 | Purchases by larger establishments in the industry, 1963 and 1968 | 29/13 |
| 11 | Transport costs and employment of larger establishments, 1963 and 1968 | 29/16 |
| 12 | Payments for certain services, etc by larger establishments, 1963 and 1968 | 29/17 |
| 13 | Percentage analysis of twelve-month periods covered by returns from larger est abl i shment $\mathrm{s}, 1968$ | 29/17 |

Footnotes continued from page 29/3.
(d) 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).
(e) Administrative, technical and clerical employees
(f) Excluding expenditure for establishments not yet in production.
(g) Acquisitions less disposals.

United Kingdom (a) (b) (c)

|  | Unit | All establishments |  |
| :---: | :---: | :---: | :---: |
|  |  | 1963 | 1968 |
| Number of enterprises | No. | 278 | 299 |
| Number of establishments | " | 328 | 357 |
| Gross out put | £’000 | 182,061 | 278, 802 |
| Net output | " | 90,882 | 120,554 |
| Net output per head | £ | 2,788 | 3,785 |
| \{ goods produced and work done (d) | £'000 | 160,725 | 235,980 |
| Sales and work done $\quad\{$ merchanted goods and canteen takings | " | 21,619 | 32,731 |
| Net amount receivable in respect of Customs and Excise duty | " | 1,299 | 666 |
| $\left\{\begin{array}{l} \text { materials for use in production and } \\ \text { packaging and fuel } \end{array}\right.$ | " | 72,005 | 138,912 |
| $\left\{\begin{array}{l} \text { goods for merchanting and canteen } \\ \text { purchases } \end{array}\right.$ | " | 18,716 | 27,160 |
| for work done on materials given out | " | 249 | 1,505 |
| Payments to other organisat ions $\quad\left\{\begin{array}{l}\text { for transport } \\ \text { by road }\end{array}\right.$ | " | 2,223 | 3,026 |
| by rail and other means excluding postal services | " | 2,223 \{ | 544 |
| Stocks and work in progress |  |  |  |
| $\begin{aligned} & \text { Total stocks and work in } \\ & \text { progress } \end{aligned} \quad\left\{\begin{array}{l} \text { change during year } \\ \text { at end of year } \end{array}\right.$ | " | $\begin{array}{r} 433 \\ +\quad 23,097 \end{array}$ | $\begin{array}{r} +\quad 22,323 \\ 83,919 \end{array}$ |
| \{change during year | " | - 154 | $+\quad 3,968$ |
| Goods on hand for sale $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | " | 9,605 | 19,703 |
| change dur ing year | " | - 128 | + 6,123 |
| Work in progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | " | 2,657 | 28,899 |
| d change during year | " | + 714 | + 12,231 |
| Materials, stores and fuel $\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | " | 10,836 | 35,317 |
| total, including working proprietors | Th. | 32.6 | 31.8 |
| Number employed on average dur ing the year |  | 19.7 | 18.4 |
| (e) $\left\{\begin{array}{l}\text { other employees (e) }\end{array}\right.$ |  | 12.7 | 13.3 |
| of operatives | £'000 | 15,082 | 19,905 |
| Mages and salaries $\quad\left\{\begin{array}{l}\text { of other employees (e) }\end{array}\right.$ | " | 14,784 | 20,887 |
| Capital expenditure (f) |  |  |  |
| Total |  | 11,939 | 18,425 |
| New building work | " | 2,940 | 1,503 |
| Land and existing buildings (g) | " | 163 | - 43 |
| Plant and machinery (g) | " | 8,439 | 16,321 |
| Vehicles (g) | " | 396 | 644 |

(a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the introduction to this report.
(b) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which oniy employment data were collected, accounted for 8 per cent. of the total figures in which they were incorporated: of this, unsat isfactory returns accounted for 2 per cent. For 1963 the comparable figures were 6 per cent. and less than 1 per cent. respectively.
The following information relates to small establishments (employing fewer than 25 persons) in this
The following information includes an estimate for small establishments not making satisfactory returns

| Number of establishment s <br> Average number employed: | 204 | 234 |
| :--- | ---: | ---: |
| Working proprietors |  |  |
| Other persons employed | 219 | 177 |
|  | 1,788 | 2,063 |

Horking proprietors
Other persons employed
1,788

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) | Estabmen'ts | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (b) } \end{aligned}$ | Total number employed on aver age during the year (a) year (a) | Gross output | Net output output | Net output per head |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | £’000 | £ 000 | £ |
| 1-5 | 83 | 79 | 259 |  |  |  |
| 6-10 | 58 | 58 | 433 | . | $\cdots$ |  |
| 11-24 | 88 | 79 | 1,504 | . | . $\cdot$ | - |
| 25-49 | 33 | 33 | 1,165 | 10,241 | 3,478 | 2,985 |
| 50-99 | 27 | 25 | 1,787 | 13,480 | 5,876 | 3,288 |
| 100-199 | 26 | 21 | 3,395 | 36,711 | 13,462 | 3,965 |
| 200-299 | 8 | 7 | 1,994 | 24,769 | 8,842 | 4,434 |
| 300-399 | 6 | 6 | 1,989 | 19,776 | 5,911 | 2,972 |
| 400-499 | 3. |  | 1,337 | 11,200 | 4,318 | 3,230 |
| 500-749 | 5 | 4 | 3,142 | 18,292 | 10,603 | 3,375 |
| 750-999 | 4 | 4 | 3,169 | 32,181 | 10,383 | 3,276 |
| 1,000 and over | 5 | 3 | 11,209 | 89,024 | 47,753 | 4,261 |
| Unsatisfactory returns | 11 | 11 | 465 | .. | .. | .. |
| Total | 357 | 299 | 31,848 | 278,802(c) | 120,554(c) | 3,785 (c) |

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

| Ages | Mal es | Fenales | All employees |
| :--- | :---: | :---: | :---: |
| Under 18 <br> 18 <br> And over | Per cent. | Per cent. | Per cent. |
|  | 1 | 1 | 2 |
|  | 82 | 16 | 98 |
|  | Source: Department of Employment |  |  |  |

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date fo Standard Industrial Classification, (Revised 1968).
(ii) Employees, wages and sal aries

All establiishments: United Kingdom

| Number employed on average during the year by theest abl i shment (a) | Employees |  | Wages and sal aries |  | Wages and sal aries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Operatives | 0thers (d) | Operatives | 0thers (d) | Oper- atives | 0 thers <br> (d) |
|  | Number | Number | £'000 | £'000 | £ | £ |
| 1-5 | .. | .. | . | .. | . | .. |
| 6-10 | .. | .. | .. | .. | .. | . |
| 11-24 | $\cdots$ | . | .. |  | . | . |
| 25-49 | 701 | 448 | 624 | 625 | 890 | 1,395 |
| 50-99 | 961 | 822 | 970 | 1,037 | 1,009 | 1,261 |
| 100-199 | 1,812 | 1,583 | 1,640 | 2,181 | 905 | 1,378 |
| 200-299 | 1,201 | 793 | 1,355 | 1,016 | 1,129 | 1,281 |
| 300-399 | 1,120 | 869 | 1,159 | 1,071 | 1,035 | 1,233 |
| 400-499 | 678 | 659 | 722 | 1,027 | 1,065 | 1,559 |
| 500-749 | 1,613 | 1,529 | 1,543 | 3,280 | 956 | 2,146 |
| 750-999 | 1,670 | 1,499 | 1,854 | 2,038 | 1,110 | 1,359 |
| 1,000 and over | 7,204 | 4,004 | 8,493 | 6,964 | 1,179 | 1,739 |
| Unsatisfactory returns | .. | .. | .. | .. | .. |  |
| Total | 18,391 (c) | 13,260(c) | 19,905(c) | 20,887(c) | 1,082(c) | 1,575(c) |

Footnotes to Table 4.
(a) The 1963 and 1968 figures in this table are not strictly
comparable - see paragraph 4 of the introduction to this comparabl.
report.
(b) Some establ ishments employing fewer than amounted to 10 establishments in 1968 and 19 in 1963.
(c) Including services rendered to other organisations (amount
charged for hiring out plant, machinery or other goods, for providing transport, or machinery or ot her go services rendered).
(d) Direct sales of goods (excluding canteen takings) made to
and work done for, the general public by larger establishand work done for, the general public by larger establis.
ments are included. These amounted to $£ 35,000$ in 1968 . Similar information is not available for 1963 .
(e) This is the ratio of total sales of principal products by
the industry to total sales of goods produced and work the
(f) Customs and Excise duty paid on goods of firms own manu
facture where these were sold duty paid was $£ 47.000$ in facture where these were sold duty paid was $£ 47,000$ in
1963 and $£ 70,000$ in 1968 . The value of rebates in 1963 and $£ 70,000$ in 1968 . The value of rebates in preparation and of drawbacks reduced in respect of produc exported was $£ 1,271,000$ in 1963 and $£ 683,000$ in 196
(g) Administrative, technical establishments not yet in
(h) Excluding
(a) Including working proprietors.
(b) The sum of the figures for the size groups exceeds the total for the industry size group.
(c) Including estimates for establi ishments employing fewer than 25 persons and for
establishments not making satisfactory returns.
(d) Adninistrative, technical and clerical employees.

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


[^0]TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968 (a) Establ ishments employing 25 or more persons:
Analysis of returns received, United Kingdom

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

TABLE 5 (continued)

|  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quant ity | Value | Quant ity | Value | Enter prises | Entries |
| Chemical products and preparations mainly for polyvinyl chloride processing (e) | Th.tons | £'000 | Th.tons | £’000 | Number | Number |
| Plasticisers, mixed or unmixed |  |  |  |  |  |  |
| Phthalates of alcohols of one to five carbon atoms | 66.6 | 10,260 |  | 1,805 | 7 | 9 |
| Phthalates of alcohols of six carbon atoms and above |  |  | 86.8 | 13,115 | 10 | 12 |
| Phosphate plasticisers | 20.1 | 3,712 | 23.7 | 4,624 | 5 | 6 |
| Plasticiser esters of adipic, sebacic, azelaic and mixed acids | 12.6 | 3,009 |  | 1,963 | 5 | 5 |
| Polymer ic plasticisers |  |  | 0.8 | 411 | * | * |
| Epoxydised oils |  |  | 1.9 | 464 | * |  |
| Epoxydised esters |  |  | 4.0 | 842 | * | * |
| Other plasticisers (excluding acrylates and maleates) |  |  | 1.1 | 436 | * | * |
| Unclassified plasticisers except phthalates of alcohols and phosphate plasticisers |  | , |  | 401 | * | * |
| Chemicals put up or prepared for laboratory use (other than radioactive and isotopically labelled chemicals) | . | 2,416 |  | 7,125 | 13 | 14 |
| Finings and other preparations for the brewery and similar trades (excluding is inglass) |  | 446 |  | 146 | * | * |
| Food and perfume materials | Th.cwt. |  | Th.cwt. |  |  |  |
| Compound oils (perfumery bases) sold as such | 53.6 | 6,093 | 68.8 | 8,652 | 14 | 16 |
| Confectioners' colours and other dyes for foods etc |  | 487 |  | 581 | 9 | 10 |
| Essential oils (natural, other than turpentine) | Th. lb. 977 | $\begin{aligned} & 1,022 \\ & 1,068 \end{aligned}$ | $\cdots$ | 1,833 | 8 | 10 |
| Essences and flavouring compounds for foods etc | .. | 6,145 | .. | 8,240 | 33 | 42 |
| Perfumery chemicals, synthetic | .. | 2,851 | .. | 7,284 | 11 | 17 |
| Rubber processing chemicals and preparations (excluding fillers and carbon black) | Th.tons |  | Th.tons |  |  |  |
| Rubber accelerators | 11.9 | 4,886 | 16.3 | 6,477 | 7 | 8 |
| Rubber antioxidants | 9.2 | 4,859 | 14.1 | 7,370 | * | 5 |
| Factice |  |  | . | 279 | * | * |
| Other rubber processing chemicals and preparations (eg anti-scorching, softening agents) | 8.2 | 1,753 | 14.3 | 2,991 | 13 | 14 |
| Surface active materials (other than washing and scouring preparations) including wetting and emulsifying agents, and sulphonated or sulphated oils, alcohols and hydrocarbons | 97.2 | 11,838 $\{$ | 127 | $\begin{array}{r} 18,220 \\ 3,040 \end{array}$ | 69 | 77 |
| Tanning agents (synthetic) and chemicals for use in tanning | 35.3 | 2,287 | 26.2 | 1,681 | 8 | 8 |
| Textile auxiliaries (eg sizes, combing oils, but excluding surface active materials) | .. | 4,610 | .. | 5,071 | 21 | 26 |

TABLE 5 (continued)

|  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quant ity | Value | Quant ity | Value | Enterprises | Entries |
| Water treatment chemicals and preparations, (including chemicals specifically put up for this purpose) (f) |  | $\begin{gathered} £ ’ 000 \\ 1,758 \end{gathered}$ | .. | $\begin{gathered} £^{\prime} 000 \\ 3,398 \end{gathered}$ | Number <br> 19 | Number <br> 20 |
| Mixtures of organic and inorganic chemicals and chemical products |  | $43,510\{$ |  | 17,576 | 54 | 58 |
| Other products |  |  | . | 29,402 | 21 | 24 |
| Waste products | . | 237 | .. | 714 | 13 | 14 |
| Work done |  | 634 |  | 1,294 | 20 | 22 |
| Total |  | 168,424 |  | 251,791 | .. | .. |
| Sales in other industries (see Table 6) |  | 59,833 |  | 81,144 | .. | . |
| Principal products of this industry sold by establishments in the industry |  | $108,591$ |  | 170,647 | 86 | 108(g) |

(a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the
introduction to this report.
(b) Not specifically described as artificially enriched for 1963
(c) Hydrogen peroxide is included in the report on the General Chemicals (Inorganic) Industry (Part 27).
(d) For 1963 includes 'fluxes for metals, etc, and heat treatment salts' only.
(e) For 1963 described as 'Plasticisers, not elsewhere specified'.
(f) For 1963 described as 'Water treatment compounds (including boiler compositions, etc)'.
(g) This figure represents the total number of returns made by 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 (a)
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom


[^1]TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968 (a)
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quant ity | Value |
|  |  | £'000 |  | £'000 |
| Miscellaneous food products | . | 855 | .. | 440 |
| Sof $t$ drinks and fruit juices | .. | 677 | . | 989 |
| General chemicals (inorganic) |  |  |  |  |
| Acids |  |  | . | 272 |
| Copper compounds |  |  | . | 275 |
| Lead compounds |  |  | . | 1,006 |
|  |  | 4,223 | Th.tons |  |
| Phosphorous and phosphorous compounds |  |  | 1.6 | 220 |
| Sodium and sodium compounds |  |  | 96.7 | 1,322 |
| Other inorganic chemicals |  | , | .. | 2,820 |
| General chemicals (organic) |  |  |  |  |
| Acids |  |  | . | 1,634 |
| Esters |  |  | .. | 780 |
| Halogenated derivatives of hydrocarbons |  | 9,702 | 4.8 | 489 |
| Nitrogen-function organic compounds |  |  | 1.9 | 412 |
| Other organic chemicals |  |  | .. | 2,904 |
| Pharmaceutical chemicals and preparations | . | 3,326 | .. | 1,337 |
| Products of the paint industry | . | 604 | . | 891 |
| Soap, detergents and glycerine | .. | 1,352 | . | 2,243 |
| Synthetic resins and plastic materials | . | 3,533 | .. | 509 |
| Dyestuffs and pigments | .. | 2,876 | . | 3,029 |
| Formulated pesticides and disinfectants |  | 821 | . | 5,404 |
| Non-ferrous base metals |  |  | .. | 1,839 |
| Other products, including electricity sold |  |  | . | 12,370 |
| Services rendered to other organisations (b) |  | 394 |  | 5,226 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) |  | 19,906 | .. | 29,616 |
| Canteen takings |  | 467 |  | 490 |
| Total |  | 63,244 |  | 76,515 |

(a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the
introduction to this report.
(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or

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 principal products
of the industry, 1968 (a)
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

| St andard Industrial Class if ication | 9x(s) | $\begin{gathered} \text { Total } \\ \text { principal } \\ \text { products } \end{gathered}$ |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { Minimum } \\ & \text { List } \\ & \text { Head ing } \end{aligned}$ | 200'\% Purchasing industry (b) | Cost |
|  |  | £ 000 |
| 217 | Cocoa, chocolate and sugar confectionery | 2,971 |
| 218 | Fruit and vegetable products | 3,783 |
| 232 | Soft drinks | 4,715 |
| 262 | Mineral oil refining | 3,946 |
| 263 | Lubricating oils and greases | 2,695 |
| 271/1 | General chemicals (inorganic) | 2,939 |
| 271/2 | General chemicals (organic) | 6,350 |
| 271/3 | General chemicals (other than inorganic and organic) | 11,844 |
| 272 | Pharmaceutical chemicals and preparations | 9,291 |
| 273 | Toilet preparations | 5,947 |
| 275 | Soap and detergents | 10,321 |
| 276 | Synthetic resins and plastics materials and synthetic rubber | 9,997 |
| 311 | Iron and steel (general) | 5,843 |
| 399/8 | Miscellaneous metal goods | 4,729 |
| 423 | Textile finishing | 2,905 |
| 431 | Leather (tanning and dressing) and fellmongery | 3,723 |
| 462 | Pottery | 3,013 |
| 491 | Rubber | 8,192 |
| 492 | Linoleum, plastics floor-covering, leather-cloth, etc | 7,688 |
| 496 | Plastics products | 2,005 |
| 603 | Water supply | 1,970 |
|  | Other industries | 21,108 |
|  | Total | 135,977 |

(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
(c) Mixtures of inorganic and organic chemicals.

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

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

Cont inued on next page

TABLE 10 (continued)

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quant ity | Cost |
| Materials for use in production (continued) | Th.tons | £'000 | Th.tons | £'000 |
| Organic chemicals (including dyestuffs intermediates and organic gases) (cont inued) |  |  |  | J9\% ${ }^{\text {a }}$ |
| Halogenated derivatives of hydrocarbons |  |  |  |  |
| Chlorinated | 13.2 | 856 | 17.6 | 1,132 |
| $0 \mathrm{ther}^{\text {r }}$ | .. | (i) | 22.6 | 3,398 |
| Hydrocarbons |  |  |  |  |
| Al iphat ic |  |  |  | bat liam |
| Acetylene (not dissolved), ethane and ethylene |  |  | 23.8 | 1,036 |
| Propane, propene (propylene), butanes, butenes (butylenes), and butadienes |  | 1,894 | 3.3 | 177 |
| $\mathrm{C}_{5}$ and higher aliphatic hydrocarbons (heptenes, dilsobutylene, propylene tetramer, etc) |  |  | 28.4 | 1,863 |
| Cyclic hydrocarbons |  |  |  |  |
| Detergent alkylates |  |  | 2.6 | 256 |
| Toluene (pure grades) | . | 2,675 | 4.5 | 147 |
| Other (including benzole 90's, toluole 90's) |  |  | 11.8 | 556 |
| Ketones | 2.3 | 134 |  | 273 |
| Phenols and their salts ( j ) | 3.3 | 262 | 15.6 | 1,450 |
| Carboxylic acids, their anhydrides and acid halides |  |  |  |  |
| Acetic acid and acetic anhydride | 4.9 | 465 | 1.6 | 173 |
| Phthal ic anhydride | 13.7 | 1,155 | 19.6 | 2,252 |
| Other |  |  | 6.0 | 1,370 |
| Aldehydes |  |  | 9.2 | 775 |
| Epoxides (ethylene oxide, propylene oxide etc) |  | 11,843 | 17.2 | 1,693 |
| Esters |  |  | 2.3 | 512 |
| Nitrogen-function compounds |  |  | 3.8 | 961 |
| Other organic chemicals |  |  | . | 8,801 |
| Other (eg mixtures of inorganic and organic chemicals) ( $k$ ) |  |  |  | (1an |
| Catarlysts prepared for industrial purposes |  | ( | .. | 202 |
| Surface active materials (other than washing and scouring preparations), including wetting and emulsifying agents and sulphonated or sulphated oils, alcohols and hydrocarbons |  | 4,322 $\{$ | . | 787 |
| Other chemicals |  |  | .. | 6,963 |
| Dyestuffs for blending and further processing |  | (b) |  | 1,017 |
|  | Th.gal. 783 | 106 | $\begin{gathered} \text { Th.gal. } \\ 442 \end{gathered}$ | 72 |
| Lubricating oils and greases | Th.cwt. |  | Th.cwt. |  |
|  | 3.1 | 7 | 8.4 | 23 |
| 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 |  | 810 | . | 134 |
| Other |  |  | .. | 3,162 |
| All other materials for use in production | . | 13,536 | .. | 29,700 |

TABLE 10 (cont inued)


TABLE 11 Transport costs and employment of larger establ ishments, 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. | 503 | 636 |
| Transport costs |  |  |  |
| Wages and salaries | £'000 | 394 | 728 |
| Derv fuel and motor spirit | " | 152 | 239 |
| Tyres and other spare parts for road goods vehicles | " |  | 134 |
| [ by road | " |  | 2,783 |
| Payment s to other organisat ions for transport $\quad\left\{\begin{array}{l}\text { by rail and other } \\ \text { means excluding } \\ \text { postal services }\end{array}\right.$ | " | $\} 2,095$ | 500 |
| Costs of operating road goods vehicles |  |  |  |
| Insurance | " | 23 | 31 |
| Vehicle licences | " | 36 | 67 |
| Depreciat ion | " | 238 | 217 |
| Payments to other organisations for repairs and maintenance |  | 74 | 119 |
| Total |  | 3,011(b) | 4,819 |

(a) The 1963 and 1968 figures in this table are not strictly comparable - see
paragraph 4 of the introduction to this report.
(b) Excluding tyres and other spare parts for road goods vehicles, not
collected separately for 1963 .

Footnotes to Table 10.
(a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the introduction to this report.
Not recorded separately for 1963 .
(c) For 1963 described as 'Lead Metallic'
(d) So far as separately recorded.
(e) For 1963 described as 'Ammonia liquor (in terms of 100 per cent. ammonia
(f) 0 (e)
(f) Oleum was not specifically included for 1963
(g) For 1963 described as 'Phosphoric (in terms of 100 per cent. acid)'
(h) For 1963 described as , 'Aluminium oxide anhydrous (alumina) and hydrated
(aluminium hydroxide)
(i) Included with ' 0 ther organic chemicals' for 1963.
(j). Salts were not specifically included for 1963.
(k) For 1963 described as '0ther heavy chemicals'
(1) For 1963 bags were not included.
(m) Paper and board for converting into packaging materials were not
(a)
n) Owing to the risk of disclosure of information relating to individual
firms total quant ities of electricity generated in firms' own establish-
ments in 1963 and 1968 cannot be given. ments in 1963 and 1968 cannot be given.
(o) For 1968, may include a small amount of fuels not covered by specific
headings.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a) (b)
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | Amounts payable |  |
| :--- | ---: | ---: |
|  | 1963 | 1968 |
|  | $£ ’ 000$ | $£{ }^{\prime} 000$ |
| Buildings | 191 | 427 |
| Road goods vehicles | 74 | 119 |
| Plant, machinery and other capital equipment | 835 | 1,315 |
| Insurance, licensing and depreciation of road goods <br> vehicles (c) | 297 | 315 |
| Rates, excluding water rates | 1,004 | 1,611 |
| Hire of plant and machinery |  |  |
| Postage, telephone, telegrams, cables and telex (d) | 150 | 244 |
| $\quad$ Total | 508 | 754 |
|  |  | 3,059 |

(a) The 1963 and 1968 figures in this table are not strictly comparable -
see paragraph 4 of the introduction to this report.
(b) No deduction is made for these payments to arrive at the figures of net (c) For bive tho
(c) For details see Table 11
(d) Excluding telex for 1963

TABLE 13 Percentage analysis of $t$ welve-month periods covered by returns from larger establ ishments, 1968
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

| Year ended | Percent age <br> of <br> total returns <br> received | Percent age <br> of <br> total number <br> employed |
| :--- | :---: | :---: |
| 1968 | Per cent. | Per cent. |
| April (a) | - | - |
| May | 0.9 | 0.1 |
| June | 2.7 | 1.5 |
| July | 0.9 | 0.2 |
| August | - | - |
| September | 4.5 | 0.9 |
| October | 6.4 | 1.8 |
| November | 1.8 | 1.4 |
| December | 61.0 | 50.5 |
| 1969 |  |  |
| January | 1.8 | 2.2 |
| February | 3.6 | 3.1 |
| March | 16.4 | 38.3 |
| April (b) | - | - |




[^0]:    For notes to this table - see page $29 / 5$.

[^1]:    (a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the
    introduction to this report.
    (b) The references given are to the list of industries at the front of this teport.
    (c) Production is widely distributed.

