## 41 Printing ink

This Report on the Printing Ink Industry relates to establishments engaged wholly or mainly in manufacturing printing ink and printers' rollers.

This industry corresponds to minimum list heading 279(5) 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 Paint and Printing Ink Industry (Part 31) in the Reports on the last detailed Census of Production for 1963. The manufacture of paint shown as a sub-division of the industry in the 1963 Report is now the subject of a separate Report for 1968.
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. | 64 | 48 |
| Number of establishments | " | 97 | 83 |
| Gross output | £. 000 | 21,713 | 30,496 |
| Net output | " | 10,856 | 15,609 |
| Net output per head | £ | 2,147 | 2,965 |
| [goods produced and work done (c) | $\mathfrak{L}^{*} 000$ | 20,375 | 27,887 |
| Sales and work done $\quad\left\{\begin{array}{l}\text { gerchanted goods and canteen takings }\end{array}\right.$ | " | 1,319 | 2,277 |
| $\int \begin{aligned} & \text { materials for use in production and } \\ & \text { packaging and fuel } \end{aligned}$ | " | 9,462 | 13,039 |
| Purchases $\quad\left\{\begin{array}{l}\text { goods for merchanting and canteen } \\ \text { purchases }\end{array}\right.$ | " | 1,167 | 1,737 |
| f for work done on materials given out | " | 19 | 19 |
| Payments to other organi sations $\quad\left\{\begin{array}{c}\text { for transport } \\ \text { by road }\end{array}\right.$ | " |  | 149 |
| by rail and other means excluding postal services | " | 243 | 115 |
| Stocks and work in progress |  |  |  |
| Total stocks and work in $\quad\{$ change during year | " | 52 | + 504 |
| Hotal stocks and work in progress | " | 2,571 | 3,858 |
| $\{$ change during year | " | 5 | + 258 |
| Goods on hand for sale $\quad\{$ at end of year | " | 864 | 1,369 |
| change during year | " | + 15 | + 73 |
| Hork in progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | " | 172 | 341 |
| change during year |  | 33 | + 173 |
| Materials, stores and fuel $\{$ at end of year | " | 1,534 | 2,148 |
| total, including working proprietors | Th. | 5.1 | 5.3 |
| Number employed on average during the year | " | 2.7 | 2.8 |
| during the year $\left\{\begin{array}{l}\text { other employees (d) }\end{array}\right.$ | * | 2.3 | 2.4 |
| fof operatives | £'000 | 2,459 | 3,556 |
| Hages and salaries $\quad\left\{\begin{array}{l}\text { of other employees (d) }\end{array}\right.$ |  | 2,644 | 3,750 |
| Capital expenditure (e) |  |  |  |
| Total |  | 680 | 1,439 |
| New building work |  | 260 | 521 |
| Land and existing buildings (f) |  | 2 | 37 |
| Pl ant and machinery ( f ) |  | 305 | 720 |
| Vehicles (f) |  | 113 | 161 |

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 6 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for less than 1 per cent which they were incorporateg: of this, unsatistactory refurns accour 1963 the comparable figures were 7 per cent. and less than 1 per cent. respectively.
(b) The following information relates to small establishments (employing fewer than 25 persons) in thi industry. It includes an estimate for small establishments not making satisfactory returns

1968

> Number of establishments Average number employed: Working proprietors

0 ther persons employed
ootnotes continued on page $41 / 2$

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 est abli shment (a) | Estab-lishmen'ts | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (b) } \end{aligned}$ | Total number employed on aver age year (a) | Gross output | Net | Net output per head |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | £’000 | $£^{\prime} 000$ | £ |
| 1-5 | 9 | 8 | 20 | . | .. | .. |
| 6-10 | 9 | 9 | 69 | .. | .. | .. |
| 11-24 | 15 | 13 | 262 | . | . | . |
| 25-49 | 21 | 17 | 737 | 4,428 | 2,344 | 3,180 |
| 50-99 | 11 | 11 | 698 | 3,836 | 2,020 | 2,894 |
| 100-199 | 11 | 8 | 1,304 | 7,872 | 3,898 | 2,987 |
| 200 and over | 6 | 6 | 2,133 | 12,119 | 6,196 | 2,905 |
| Unsatisfactory returns | 1 | 1 | 42 | .. | . | .. |
| Total | 83 | 48 | 5,265 | 30,496(c) | 15,609(c) | 2,965(c) |

(ii) Employees, wages and sal aries

All establishments: United Kingdom

| Number employed on average during the est abl i shment (a) | Employees |  | Wages and salaries |  | Wages and sal aries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Operatives | Others (d) | Operatives | Others (d) | Operatives | 0 thers (d) |
|  | Number | Number | £'000 | £'000 | £ | £ |
| 1-5 | . | .. | .. | . | . | . |
| 6-10 | . | . | . | . | . | . |
| 11-24 | . | . | . | - | . | . |
| 25-49 | 409 | 320 | 489 | 535 | 1,196 | 1,673 |
| 50-99 | 383 | 314 | 442 | 481 | 1,154 | 1,533 |
| 100-199 | 753 | 549 | 904 | 879 | 1,201 | 1,601 |
| 200 and over | 1,084 | 1,049 | 1,478 | 1,579 | 1,363 | 1,505 |
| Unsatisfactory returns | .. | .. | .. | . | .. | . |
| Total | 2,821(c) | 2,413(c) | 3,556(c) | 3,750(c) | 1,260(c) | 1,554(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
(d) Adninistrative, technical and clerical employee

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

| Ages |  |  |  |
| :--- | :---: | :---: | :---: |
| Mal es | Fenales | All employees |  |
|  | Per cent. | Per cent. | Per cent. |
|  | 1 | 3 | 4 |
|  | 59 | 37 | 96 |
| Source: Department of Employment |  |  |  |

(a) The percentages relate to the numbers employed (excluding working proprietors) in the chemical industries not elsewhere specified - minimum list heading 279 - at June 1969 the earliest date for which the information is avail abl on the basis of
(Revised 1968).

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


For notes to this table - see page $41 / 7$.

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 | Enter- prises | Entries |
|  | Th.cwt. | £'000 | Th.cwt. | £'000 | Number | Number |
| News inks and other mineral oil inks | 430 | 1,665 | .. | 2,332 | 10 | 13 |
| Photogravure, aniline, evaporative and other inks, drying by solvent evaporation | 225 | 5,339 | 305 | 8,062 | 20 | 25 |
| Letterpress and lithographic ink | 201 | 8,827 | 219 | 11,602 | 23 | 30 |
| Display colours and silkscreen inks | 58.0 | 1,309 \{ | 24.6 | $\begin{aligned} & 859 \\ & 399 \end{aligned}$ | 13 | 16 |
| Other printers' inks and printing ink makers' materials, not elsewhere specified | .. | 1,156 | .. | 3,013 | 23 | 28 |
| Printers, rollers and compositions |  | 2,121 |  | 2,951 | 13 | 15 |
| Other products | . | 67 | . | 302 | * | * |
| Waste products | .. | 1 | .. | - | * | * |
| Total |  | 20,485 |  | 29,520 | . | . |
| Sales in other industries (see Table 6) |  | 2,443 |  | 4,001 | .. | . |
| Principal products of this industry sold by establishments in the industry |  | 18,042 |  | 25,519 | 28 | 35(a) |

(a) 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 classif ied to other industries, 1963 and 1968
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

Sales of principal products by larger establishments classified to other
industries amounted to $£ 4,001,000$ in 1968 and $£ 2,443,000$ in 1963 . 0 wing industries amounted to $£ 4,001,000$ in 1968 and $£ 2,443,000$ in 1963 . Owing
to the risk of disclosure of information relating to individual firms, to the risk of disclosure of informat
separate particulars cannot be given.

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 17 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 ther services rendered).
c) This is the ra
and work done.
d) Administrative, technical and clerical employees.
(e) Excluding expenditure for establishments not yet in production
(f) Acquisitions less disposals.

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 Kingdo

|  | 1963 | 1968 |
| :---: | :---: | :---: |
|  | Value | Value |
| Paints, colours and stainers | 723 | 531 |
| Other products and work done | 248 | 77 |
| Services rendered to other organisations (a) | - | 49 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | 1,197 | 2,099 |
| Canteen takings | 33 | 39 |
| Total | 2,202 | 2,795 |

(a) 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 Kingdon


TABLE 10 (continued)


TABLE 10 (continued)

(a) Not recorded separately for 1963.
b) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc)'.
c) For 1963 described as 'Solvents and diluents (including benzoles, solvent naphthas, alcohols esters, ketones, etc)
(d) For 1963 included with 'Organic chemicals (solvents and diluents)'
(e) For 1963 described as 'Alkyds (including styrenated alkyds) solid and liquid resins including and dispersions'.
f) For 1963 'Polyvinyl acetate emulsions' only.
(g) For 1963 described as 'Plastics moulded and fabricated packs and containers (eg bottles and g) Fortle caps) wholly or mainly of polyethylene'.
(h) 0 wing to the risk of disclosure of information relating to individual firms the total quantity of electricity generated in firms, o.
given. None was recorded for 1963.

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 | 1963 |
| :---: | :---: | :---: | :---: |
| Average number mainly employed on transport | No. | 174 | 209 |
| Transport costs |  |  |  |
| Wages and salaries | $£^{\prime} 000$ | 171 | 301 |
| Derv fuel and motor spirit | " | 52 | 102 |
| Tyres and other spare parts for road goods vehicles | " |  | 17 |
| Payments to other organisations for transport $\quad\left\{\begin{array}{l}\text { by road } \\ \text { by rail and other } \\ \text { means excluding } \\ \text { postal services }\end{array}\right.$ | " | 226 | 140 108 |
| Costs of operating road goods vehicles |  |  |  |
| Insurance | " | 9 | 17 |
| Vehicle licences | " | 9 | 21 |
| Depreciation | " | 47 | 72 |
| Payments to other organisations for repairs and maintenance | " | 19 | 57 |
| Total | " | 532(a) | 835 |

(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 | $£^{\prime} 000$ | $£^{\prime} 000$ |
| Buildings | 52 | 65 |
| Road goods vehicles | 19 | 57 |
| Plant, machinery and other capital equipment | 60 | 113 |
| Insurance, licensing and depreciation of road goods <br> vehicles (b) <br> Rates, excluding water rates <br> Hire of plant and machinery <br> Postage, telephone, telegrams, cables and telex (c) <br> $\quad$ Total | 64 | 110 |
|  | 133 | 221 |

[^0]TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968
Establishments employing 25 or more persons: 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) | 0.0 | 0.0 |
| May | 2.9 | 1.0 |
| June | 5.7 | 3.3 |
| July | 0.0 | 0.0 |
| August | 2.9 | 0.7 |
| September | 5.7 | 2.1 |
| 0 ctober | 0.0 | 0.0 |
| November | 2.9 | 0.8 |
| December | 34.3 | 41.0 |
| 1969 |  |  |
| January | 5.7 | 2.8 |
| February | 0.0 | 0.0 |
| March | 39.9 | 48.3 |
| April (b) | 0.0 | 0.0 |
|  | 100 | 100 |

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


[^0]:    (a) No deduction is made for these payments to arrive at the figures of net
    output given in this report.
    output given in this report
    b) For details see Table 11.
    (c) Excluding Telex for 1963

