## CARDBOARD BOX TRADE

## INTRODUCTORY

This trade comprises firms that were engaged wholly or mainly in the manufacture of boxes and cartons of paper and cardboard and fibre board packing cases.
Separate returns were obtained as far as possible in respect of the cardboard box departments of firms manufacturing boxes and cases for their own use. The number of returns received from such firms for 1924 was, however, less complete than for 1930 and I935.

Table I A.-General summary

| Particulars | 1935 | 1930 | 1924 |
| :---: | :---: | :---: | :---: |
| Value of products (Gross output) | $\begin{aligned} & £_{1}^{\prime} 000 \\ & 13,920 \end{aligned}$ |  | £'000 |
|  | 13,920 6,868 | 10,751 | 7,155 |
| Amount paid for work given out ... ... | 6,868 34 | 5,255 24 | 3,217 |
| Net output... ... ... ... | 7,018 | 24 5,472 | 24 3,914 |
| Average number of persons employed (excluding outworkers) | No. 41,899 | No. 33,661 | No. |
| Net output per person employed (excludin | Ł | t | $f$ |
| outworkers) ... ... ... ... . | 168 | 163 | 168 |
|  | No. | No. | No. |
| Number of establishments | 560 581 | 483 504 |  |

* Not available.

Table | B.-Firms employing not more than ten persons on the average


In 1924 the value of the gross output of the small firms making returns was $2 \cdot 0$ per cent. of the total.

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Table II. - Size of establishments in 1935

| Size of establishment (average number employed) |  | Grass output | $\begin{aligned} & \text { Net } \\ & \text { output } \end{aligned}$ | Number of persons employed (exclucing out- workers) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { No } \\ 172 \\ 213 \\ 202 \\ 49 \\ 49 \\ 23 \\ 0 \\ 8 \\ 8 \end{gathered}$ | $\begin{array}{r} £^{\prime} 002 \\ 771 \\ 1,959 \\ \mathbf{2 , 0 9 7} \\ 2,562 \\ 1,830 \\ 825 \\ 1,264 \\ 2,618 \end{array}$ |  | No. 2,905 7,504 7,299 $6,7 x 9$ 5,396 2,063 3,562 6,562 | $\begin{gathered} f \\ 149 \\ 143 \\ 148 \\ 188 \\ 173 \\ 189 \\ 191 \\ 187 \end{gathered}$ |
| Total | 581 | 13,920 | 7,018 | 41,899 | 16.3 |

Table III.-Particulars of output, etc., in each of the principal areas


Table IV.-No sub-divisions of this trade have beem distinguished

| Kind of output |  | 1935 |  |  | 1930 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | Value | Entries | es Qua | ntity | Value |
|  |  | Th. cwts. |  | No. <br> 409 <br> 110 <br> 122 <br> 12 <br> 12 <br> 208 <br> 63 <br> 39 |  |  | ${ }^{\text {E }}$ (000 |
|  |  | 6,134 $\cdots$ 3.061 | $\underset{\substack{11,170 \\ 1,81 \mathrm{I}}}{2,794}$ | 50 |  |  |  |
|  |  |  | 15,775 |  |  |  | 12,210 |
| * i.e., boxes of the type used by the laundry, dry-cleaning, tailoring, costumery and millinery trades <br> $\dagger$ So far as recorded separately. <br> The figures shown in the preceding table include the following output recorded by firms whose returns were made on schedules for other trades and are not, therefore, included in Table I A. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Kind of output |  | 1935 |  |  | 1930 |  |  |
|  |  | Quantity | Value | Entries | Quantity |  | Value |
|  |  |  | $\begin{gathered} \ell^{\prime} 000 \\ 263 \\ 50 \\ 50 \\ 55 \\ 5{ }^{2} \\ 1,202 \\ 109 \\ 10 \\ 40 \end{gathered}$ | $\begin{gathered} \text { No. } \\ 34 \\ 16 \\ 16 \\ 9 \\ 10 \\ 46 \\ 41 \\ 21 \\ \hline \end{gathered}$ |  |  | $\begin{array}{r} \text { £'000 } \\ \\ 1,507 \\ 430 \end{array}$ |
| $\left.\begin{array}{l}\text { Total - Boxes and } \\ \text { cartons of paper and } \\ \text { cardboard }\end{array}\right\}$ Fibre - board packing cases (solid and corrugated) <br> Total |  | ${ }_{\substack{938 \\ 1,100}}$ | $\begin{array}{r} 1,689 \\ 92 \\ 829 \\ 859 \end{array}$ | 4 | $\begin{gathered} 709 \\ \cdots \\ 668 \end{gathered}$ |  | $\begin{array}{r} 1,507 \\ 430 \\ 663 \end{array}$ |
|  |  |  | 2,640 |  |  |  | 2,605 |
| Table VI.-Average values of goods produced, exported and imported |  |  |  |  |  |  |  |
| Kind of goods | Production (at factory) |  |  |  |  | $\begin{aligned} & \text { Imports } \\ & \text { (c.i.i.f) } \end{aligned}$ |  |
|  | Average value |  | $\left\|\begin{array}{c} 1935 \\ \text { asa } \\ \text { ase } \\ \text { certage } \\ \text { of tage } \end{array}\right\|$ | Average value |  | Average value |  |
|  |  |  | ( $\begin{aligned} & \text { Per } \\ & \text { cent. }\end{aligned}$ |  |  | **. |  |
| Boxes and cartons of paper and cardboard :- Rigid boxes (including round boxes) Rigid boxes, delivered flat Folding boxes | $\begin{gathered} 35 \cdot 3 \\ 30.2 \\ 38.5 \end{gathered}$ | * |  |  | er cut. |  |  |
| Total - Boxes and cartons of paper and cardboard <br> Fibre - board packing gated) | 36.4 | 41.4 | 87.9 | $4^{6 \cdot 5}$ | 60.3 | 59.4 | 61.8 |
|  | 18.3 | 19.9 | 9 r .8 | * | * |  |  |

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Table VII.-Volume of Production, 1924-1935

| Kind of output | Total production |  |  | Production inde$(1935=100)$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \begin{array}{c} 1935 \\ \text { as } \\ \text { returned } \end{array} \end{gathered}$ | 1930 |  |  |  |
|  |  | $\begin{aligned} & \text { As } \\ & \text { returned } \end{aligned}$ | $\begin{aligned} & \text { At } 1935 \\ & \text { average } \\ & \text { values } \end{aligned}$ | 1924* | 1930 |
|  | $£^{\prime} \times 00$ | £'000 | $\chi^{\prime} 000$ | Per cent. | Per cent. |
| Boxes and cartons of paper and cardboard <br> Fibre-board packing cases. | $\begin{gathered} 12,981 \\ 2,794 \\ 2 \end{gathered}$ | $\begin{gathered} 11,009 \\ 1,201 \end{gathered}$ | $\begin{aligned} & 9,677 \\ & 1,102 \end{aligned}$ | \} 45 \{ | 75 |
| Total | 15.775. | 12,210 | 10,779. | 45 | 68 |

Table VIII.-Production, Exports and Imports

| Kind of goods | $\begin{aligned} & \text { Pro- } \\ & \text { duction } \end{aligned}$ | Exports |  | Retained imports |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Value } \\ \text { (at } \\ \text { factory) } \end{gathered}$ | Quantity | $\begin{gathered} \text { Value } \\ \text { (f.o.b.) } \end{gathered}$ | Quantity | $\begin{aligned} & \text { Value } \\ & \text { (c.i.f.) } \end{aligned}$ |
| Boxes and cartons of $\{1935$ paper and cardboard $\{1930$ |  | $\begin{gathered} \text { Th. cwts. } \\ 99 \cdot 0 \\ .77 .7 \end{gathered}$ | $\begin{aligned} & f^{\prime \prime 000} \\ & 209 \\ & 2094 \end{aligned}$ | $\begin{gathered} \text { Th. cwts.s. } \\ 39 \cdot 6 \\ 69.2 \end{gathered}$ | ¢ $\begin{gathered}\text { ¢ } 118 \\ 118 \\ 214\end{gathered}$ |

Table IX.-Other output of the Cardboard Box Trade
The value of the gross output of the firms whose returns were made on schedules for the Cardboard Box Trade was $£_{1} 13,920,000$ in 1935 and ${ }^{1} 10,751,000$ in 1930, of which $£ 13,135,000$ in 1935 and $£ 9,605,000$ in remaining items are shown below.

| Kind of output | 1935 |  | 1930 |
| :---: | :---: | :---: | :---: |
|  | Quantity | Value | Value |
| Paper bags | Th. cwts. | ${ }_{\substack{\text { ¢ } \\ 136}}$ | f'000 |
| Corrugated paper ... | $\left\{\begin{array}{r}87\end{array}\right.$ | 768 |  |
| Manufactured stationery | \{ ... | 38 186 186 |  |
| Other manufactures of paper or cardboard |  | 183 |  |
| Printing, engraving, etc. |  |  | 535* |
| Baskets and basketware ${ }^{\text {Other goods made and work done }}$ |  | 55 | ${ }_{2}$ |
| Other goods made and work done Waste sold $\ldots$ | $\ldots$ | 38 | 23 |
| Waste sold ... | $\ldots$ |  |  |
| Total | $\ldots$ | 785 | 1, ז4 ${ }^{6}$ |

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MATERIALS AND FUEL
Table X A.-Materials, fuel and electricity purchased and used


EMPLOYMENT

| Persons employed | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Under } \\ & \text { i } \end{aligned}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | $\begin{array}{\|l} \text { Under } \\ \text { I } \end{array}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ |
| Operatives (average for $\left\{\begin{array}{l}1935 \\ \text { the year) }\end{array}\right.$ |  | ${ }_{7}^{9,153}$ | 9,452 | 28,876 | $\stackrel{10,834}{8,48}$ | ${ }^{38,029}$ |
| Administrative, technical ${ }^{\text {d }}$ (1935 | $\xrightarrow{1,037}$ | 7,123 2,346 |  | 23,804 | -8,431 | 30,927 3,870 |
| and clerical staff* ${ }^{\text {\% }}$... $\left\{_{1930}\right.$ | 107 | 1,657 | 186 | 1,077 | ${ }_{293}$ | 2,734 |
| $\text { Total ... ... }\left\{\begin{array}{l} 1935 \\ 1930 \end{array}\right.$ | $\begin{aligned} & 1,486 \\ & 1,144 \end{aligned}$ | $\begin{gathered} 11,499 \\ 8,780 \end{gathered}$ | $\begin{aligned} & 9,722 \\ & 7,580 \end{aligned}$ | $\begin{aligned} & 30,400 \\ & 24,88 \mathrm{I} \end{aligned}$ | $\left\lvert\, \begin{array}{r} 11,208 \\ 8,724 \end{array}\right.$ | $\begin{aligned} & 41,899 \\ & 33,661 \end{aligned}$ |
| Average number of out- $\{1935$ workers... | ${ }_{5}^{4}$ |  | $\begin{aligned} & 519 \\ & 535 \end{aligned}$ |  | $\begin{aligned} & 523 \\ & 540 \\ & 52 \end{aligned}$ |  |

*As at I2th October, 1935, and 18th October 1930

Table XI B.-Operatives employed in one week in each month of 1930 and 1935 by firms furnishing returns in respect of the twelve months



* For the ending date of each week see page xiv
$\dagger$ Based on the estimated average for the year 1935 .

Table XI C.-Average numbers employed, 1924-1935


Table XII.-Wages paid by firms furnishing returns of wages
The aggregate amount of wages paid by firms furnishing returns of wages was $£^{1,893,000}$ in 1935 representing $48 \cdot 5$ per cent. of the net output of these firms, the corresponding figures for 1930 being £ $1,639,000$ and $47 \cdot 7$ per cent. The figures for these firms given below indicate the size of the sample and the extent to which it is representativ


## COUNTRY TABLES (1935)

Note.-The figures given in the following tables relate only to firms whose returns were made on schedules for the Cardboard Box Trade. Table I.-General summary

| Particulars | Unit | $\begin{aligned} & \text { England } \\ & \text { and } \\ & \text { Wales } \end{aligned}$ Wales | Scotland | Great Britain | Northern Ireland |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Value of products (Gross output) | £'ooo | 12,921 | 880 | 13,801 | 119 |
| Cost of materials, fuel and electricity used |  |  |  |  |  |
| Amount paid for work given out |  | 6,364 3 | $\stackrel{457}{1}$ | 6,821 | 47 |
| Net output ... $\ldots$ | ", | 6,524 | 422 | 946 | 72 |
| Average number of persons employed (excluding outworkers) | No. | 38,618 | 2,651 | ,269 | 630 |
| Net output per person employed |  |  |  |  |  |
| (excluding outworkers) . |  | 169 |  | 168 |  |
| Number of returns ${ }_{\text {Number }} \ldots$ | No. | 504 | 39 | 543 | 17 |
| Number of establishments | " | 523 | 41 | 564 | 17 |

Table II.-Output

| Kind of output | Unit | England and Wales and Northern Ireland | Scotland | $\begin{gathered} \text { United } \\ \text { Kingdom } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Boxes and cartons of paper and. cardboard :- <br> Rigid boxes (including round boxes) :- |  |  |  |  |
| Quantily stated ... \{ | t'oos | 3,967 | 339 | 2,453 4.306 |
| Quantity not stated <br> Rigid boxes, delivered flat, made from material more than 028 in thick :- | E'000 | 1,340 | 44 | 1,384 |
|  | Th. cut | 212 | 28 | 240 |
| Quantity not stated. | E'ooo | 339 | 35 | 374 |
| Folding boxes ... ... | Th. cuts. | 2,097 | 186 | $\begin{array}{r}\text { 2,283 } \\ \hline\end{array}$ |
| Unclassified boxes and cartons |  | 4,201 | 284 | 4.485 |
| Quantity stated Quantity not stated ... | $\begin{aligned} & \text { Th. cwts. } \\ & \text { £'ooo } \\ & \text { fooo } \end{aligned}$ | 201 304 249 | 19 12 9 | 220 316 258 |
| Total-Boxes and cartons of paper and cardboard :- |  |  |  |  |
| Quantity stated .. | Th. cwits. | 4,790 8,811 | 406 670 | 5,196 |
| Quantity not stated |  | 1,666 | 53 | 1,719 |
| Fibre-board packing cases (solid and corrugated) ... | Th. cuts. t'ooo | 1,906 1,872 | 53 53 63 | 1,961 <br> 1,935 <br> 1 |
| Paper bags ... | Th. cwis. | 42 | $8{ }^{\text {I }}$ | 123 |
| Corrugated paper :- | £' | 72 | 64 | 136 |
| Quantity stated | Th. cuts. | 87 | $\dagger$ | 87 |
| tat... |  | 75 |  | ${ }_{38}^{76}$ |
| Quantity not stated ... <br> Manufactured stationery <br> Other manufactures of paper or cardboard |  | $\begin{array}{r}38 \\ 175 \\ \hline\end{array}$ | 11 | 38 186 |
|  |  |  |  |  |
| Printing, engraving, etc. | tooo | $51 \ddagger$ | ${ }_{12}{ }^{\ddagger}$ | ${ }_{6}{ }^{18} \ddagger$ |
|  | E'oos | 55. |  | 55 |
| Other goods made and work | £'000 | 38 |  | 38 |
|  | £'000 | 9 |  |  |
| Toalal - Value of goods made and work done ... | £'000 | 13,040 | 880 | 13,920 |
| * Owing to the possible disclosure of information relating to individual firms the particulars for Northern Ireland have been combined with those for Englan |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| $\dagger$ Less than 500. $\ddagger$ Amount received. |  |  |  |  |

Table III A.-Materials, fuel and electricity purchased and used

| Kind of materials, etc. | Unit | $\begin{aligned} & \text { England } \\ & \text { and } \\ & \text { Wales } \end{aligned}$ | Scotland | Great Britain | Northern Ireland |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Board of all kinds ...\{ | $\begin{aligned} & \text { Th. tons } \\ & \text { E'ooo } \end{aligned}$ | 372.4 4.488 | 23.8 317 | $396 \cdot 2$ 4,805 | 2.5 27 |
| Fuel and electricity used for all purposes :- |  |  |  |  |  |
| Coal ... ... $\{$ | Th. 'tons | $25 \cdot 7$ 32 | I. 7 | $\begin{array}{r}27.4 \\ \hline 3\end{array}$ | ${ }_{*}^{0.2}$ |
|  | ${ }_{\text {T }}{ }_{\text {T }}$ Th. tons | 7.8 7 | 0.2 | 8.0 | - |
|  | ${ }^{\prime \prime}$ | 11 | * | 11 | - |
| Heavy fuel. oil | Th. galls. tooo. | 118 2 | 二 | 118 2 | = |
| Purchased $\quad$ electricity $\dagger\{$ | Th. B.T.U. (Kw.-hrs.) | 14,632 68 | r,139 | 15.771 | 104 |
| All other purchased materials and fuel |  | 1,763 | 134 | ז,897 | 19 |
| Total ... ... | £'000 | 6,364 | 457 | 6,821 | 47 |

* Less than $f_{500}$.
$\dagger$ Including electricity generated in other works under the same ownership.

Table III B.-Consumption of electricity

| Electricity consumed | England Wales | Scotland | Great <br> Britain | Northern <br> Ireland |
| :---: | :---: | :---: | :---: | :---: |
| Generated in same works | $\begin{gathered} \text { Th. B.T.U. } \\ \text { (Kw.-hrs.) } \\ 2,569 \end{gathered}$ | $\begin{aligned} & \text { Th. B.T.U. } \\ & \text { (Kw.-hrs.) } \end{aligned}$ | $\begin{gathered} \text { Th. B.T.U. } \\ \text { (Kw.-hrs.) } \\ \dot{2}, 569 \end{gathered}$ | $\begin{aligned} & \text { Th. B.T.U. } \\ & \text { (Kw.-hrs.) } \end{aligned}$ |
| Generated in other works under same ownership <br> Purchased | $\begin{array}{r} 914 \\ \mathbf{1 3 , 7 1 8} \end{array}$ | $\begin{aligned} & 168 \\ & 971 \end{aligned}$ | $\begin{array}{r} 1,082 \\ 14,689 \end{array}$ | 104 |
| Total | 17,201 | 1,139 | 18,340 | 104 |

Table IV A.-Numbers employed in week ended 12th October, 1935

| Persons employed (excluding outworkers) | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | $\begin{aligned} & \text { Under } \\ & \text { I } 8 \end{aligned}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{aligned} & \text { Under } \\ & \text { I } \end{aligned}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ |
| England and Wales :Operatives Administrative, etc.*. | 1,373 102 | $\begin{aligned} & 8,968 \\ & 2,193 \end{aligned}$ | $\begin{array}{r} 8,926 \\ 250 \end{array}$ | $\begin{array}{r} 27,418 \\ 1,396 \end{array}$ | $\begin{array}{r} 10,299 \\ 352 \end{array}$ | $\begin{array}{r} 36,386 \\ 3,589 \end{array}$ |
| Total | 1,475 | 11,161 | 9,176 | 28,814 | 10,651 | 39,975 |
| Scotland :Operatives Administrative, etc.* | 49 | 472 114 | 797 18 | $\begin{array}{r} 2,157 \\ 104 \end{array}$ | 846 18 | $\begin{array}{r}2,629 \\ 218 \\ \hline 2847\end{array}$ |
| Total | 49 | 586 | 815 | 2,261 | 864 | 2,847 |
| Great Britain :Operatives Administrative, etc.*. | $\begin{aligned} & 1,422 \\ & 102 \end{aligned}$ | $\begin{aligned} & 9,440 \\ & 2,307 \\ & \hline \end{aligned}$ | 9,723 268 | $\begin{array}{r} 29,575 \\ 1,500 \end{array}$ | $\begin{array}{r} 11,145 \\ \hline \end{array}$ | $\begin{array}{r} 39,015 \\ 3,807 \\ \hline \end{array}$ |
| Total | 1,524 | 11,747 | 9,991 | 31,075 | 11,515 | 42,822 |
| Northern Ireland :Operatives Administrative, etc.* | $\begin{array}{r}20 \\ 2 \\ 2 \\ \hline\end{array}$ | $\begin{array}{r} 102 \\ 39 \\ \hline \end{array}$ | 134 2 | $\begin{array}{r}551 \\ 24 \\ \hline\end{array}$ | 154 4 | $\begin{array}{r}653 \\ 63 \\ \hline 16\end{array}$ |
| Total | 22 | ${ }^{141}$ | 136 | 575 | 158 | ${ }^{76}$ |

Table IV B.-Operatives employed in one week in each month of 1935


Table IV C.-Number of outworkers at two specified periods in 1935

| Country | January |  |  | July |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Fermales | Total | Males | Females | Total |
|  | 4 | 492 | 496 | 4 | 545 | 549 |

No outworkers were recorded for Scotland or Northern Ireland.
Table V.-Firms employing not more than ten persons on the average

| Parliculars | $\begin{gathered} \text { England } \\ \text { and } \\ \text { Wales } \end{gathered}$ | Scotland | Great Britain | Northern Ireland |
| :---: | :---: | :---: | :---: | :---: |
| Number of returns received | No. | No. | $\begin{aligned} & \text { No } \\ & 249 \end{aligned}$ | No. |
| Average number of persons employed :Males <br> Females... | $\begin{aligned} & 507 \\ & 924 \end{aligned}$ | $\begin{aligned} & 16 \\ & 54 \end{aligned}$ | $\begin{aligned} & 523 \\ & 978 \\ & 9 \end{aligned}$ | $\begin{aligned} & 6 \\ & 3 \end{aligned}$ |
| Total ... ... | 1,431 | 70 | 1,501 | 9 |

