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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

FOREST PRODUCTS BRANCH

PRELIMINARY REPORT

on the

PAPER BOX & BAG INDUSTRY

in

CANADA

1925

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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CANADA

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THE PAPER BOX AND BAG INDUSTRY, 1925.

Ottawa, February 16th, 1927.- A report on the Paper Box and Bag Industry in Canada for 1925 has just been issued by the Forest Products Branch of the Dominion Bureau of Statistics. This is one of the most important of the secondary manufacturing industries depending on the pulp and paper industry for raw material.

The report covers only those firms which specialise in the manufacture of stiff, folding and corrugated boxes, cartons and other paper board containers and paper bags. These firms also manufacture in many cases, envelopes, egg case fillers, paper drinking cups, bottle wrappers, mailing tubes and other miscellaneous products. The figures relating to production are not in all cases to be regarded as comprehensive as some of these products are also manufactured as side lines in other groups of industries.

There were 99 firms engaged in the manufacturing of paper boxes and bags as their principal product in 1925, involving the investment of \$14,379,233 as capital. The industry gave employment to 3,932 people and paid \$3,648,649 in salaries and wages. The total cost of materials which consisted chiefly of paper board, paper, glue, ink and other materials was \$6,472,726, of which \$1,626,432 was used in the manufacture of stiff boxes, \$1,671,741 in the manufacture of folding boxes, \$1,990,419 in the manufacture of corrugated boxes and wrappers and \$1,204,134 in the manufacture of paper bags, envelopes and other products.

The total value of all products of this group of industries in 1925 was \$13,171,582; being made up chiefly of stiff boxes valued at \$4,184,970 folding boxes valued at \$3,070,180, corrugated boxes and wrappers valued at \$2,635,568 and paper bags valued at \$1,494,210.

Ontario leads the other provinces in the manufacture of these commodities with Quebec, Manitoba and New Brunswick following in order of importance.

Tables showing details of products manufactured, materials used, capital invested, employment and working time, by provinces are included in the report.

THE PAPER BOX AND BAG INDUSTRY, 1925.

Table 1.-Principal statistics, 1925.

| Items | Canada | New Brunswick | Quebec | Ontario | Manitoba | All Other Provinces |
|------------------------------|------------|------------------|-----------|-----------|----------|---------------------------|
| Number of establishments No. | 99 | 4 | 25 | 61 | 6 | 3 |
| Capital invested.....\$ | 14,379,233 | 182,254 | 3,634,623 | 9,946,181 | 332,517 | 283,658 |
| Employees on salaries....No. | 494 | 14 | 119 | 339 | 14 | 8 |
| Employees on wages.....No. | 3,438 | 58 | 1,058 | 2,169 | 108 | 45 |
| Total employees.....No. | 3,932 | 72 | 1,177 | 2,508 | 122 | 53 |
| Salaries paid.....\$ | 1,030,596 | 12,692 | 224,521 | 726,880 | 48,061 | 18,442 |
| Wages paid.....\$ | 2,618,053 | 28,863 | 639,018 | 1,817,948 | 91,282 | 40,942 |
| Total salaries and wages \$ | 3,648,649 | 41,555 | 863,539 | 2,544,828 | 139,343 | 59,384 |
| Fuel used.....\$ | 98,869 | 985 | 22,350 | 73,075 | 1,385 | 1,074 |
| Power employed.....H.P. | 4,227 | 24 | 551 | 3,569 | 49 | 34 |
| Cost of materials.....\$ | 6,472,726 | 61,237 | 1,419,937 | 4,693,200 | 217,629 | 80,723 |
| Value of products.....\$ | 13,171,682 | 133,091 | 3,063,814 | 9,324,151 | 467,880 | 182,746 |

Table 2.- Products manufactured, by provinces, 1925.

| Products | Canada | New Brunswick | Quebec | Ontario | Manitoba | All Other Provinces |
|---|------------|------------------|-----------|-----------|----------|---------------------------|
| | \$ | \$ | \$ | \$ | \$ | \$ |
| Stiff boxes..... | 4,184,970 | 104,483 | 1,354,246 | 2,499,964 | 136,282 | 89,995 |
| Folding boxes..... | 3,070,180 | 27,934 | 275,654 | 2,419,933 | 169,843 | 92,751 |
| Corrugated boxes... | 2,635,568 | - | 809,691 | 1,909,942 | - | - |
| All other boxes.... | 697,629 | 674 | 9,391 | 680,290 | 7,274 | - |
| Self opening bags.. | 931,978 | - | 448,949 | 390,139 | 92,890 | - |
| Millinery bags..... | 10,017 | - | 5,017 | 5,000 | - | - |
| Special bags..... | 552,215 | - | 3,546 | 548,669 | - | - |
| All other products, including Envelopes, Egg case fillers, Drinking cups and Bottle wrappers..... | 1,089,125 | - | 157,320 | 870,214 | 61,591 | - |
| Total..... | 13,171,682 | 133,091 | 3,063,814 | 9,324,151 | 467,880 | 182,746 |

THE PAPER BOX AND BAG INDUSTRY, 1925.

Table 5.- Materials Used, by provinces, 1925.

| Materials | CANADA | | NEW BRUNSWICK | | QUEBEC | |
|--|------------------|-------------|------------------|-------------|------------------|-------------|
| | Quantity tons | Value \$ | Quantity tons | Value \$ | Quantity tons | Value \$ |
| Stiff box materials..... | - | 1,606,432 | - | 49,898 | - | 537,188 |
| Non-folding board..... | 15,021 | 974,420 | 441 | 28,412 | 5,081 | 312,274 |
| Paper..... | - | 410,667 | - | 8,881 | - | 155,974 |
| Ink..... | - | 17,567 | - | 23 | - | 3,174 |
| Printing plates..... | - | 4,221 | - | - | - | 568 |
| Glue and other adhesives. | - | 72,226 | - | 2,258 | - | 28,139 |
| Shipping containers..... | - | 6,915 | - | 150 | - | 846 |
| Miscellaneous..... | - | 120,416 | - | 10,174 | - | 38,213 |
| Folding box materials..... | - | 1,671,741 | - | 11,339 | - | 163,203 |
| Folding board..... | 17,656 | 1,329,760 | 165 | 10,592 | 1,663 | 127,595 |
| Ink..... | - | 60,899 | - | 10 | - | 6,253 |
| Printing plates..... | - | 48,006 | - | - | - | - |
| Die board..... | - | 1,999 | - | - | - | - |
| Die rule..... | - | 4,336 | - | 72 | - | 84 |
| Glue and other adhesives. | - | 10,142 | - | 52 | - | 722 |
| Paraffin..... | - | 17,097 | - | 41 | - | 95 |
| Silicate of soda..... | - | 14,084 | - | - | - | 12,000 |
| Wrapping paper..... | - | 14,064 | - | 3 | - | 40 |
| Shipping containers..... | - | 5,850 | - | - | - | 2,004 |
| Miscellaneous..... | - | 165,504 | - | 569 | - | 14,410 |
| Corrugated box materials... | - | 1,990,419 | - | - | - | 400,343 |
| Straw board..... | 8,270 | 535,991 | - | - | 1,508 | 98,968 |
| Other paper board..... | 19,985 | 1,237,754 | - | - | 4,006 | 286,415 |
| Paper..... | - | 66,350 | - | - | - | - |
| Ink..... | - | 4,962 | - | - | - | 1,000 |
| Glue and other adhesives. | - | 66,810 | - | - | - | 4,540 |
| Shipping containers..... | - | - | - | - | - | - |
| Miscellaneous..... | - | 78,552 | - | - | - | 9,420 |
| Bag, envelope and other materials.. | - | 1,204,134 | - | - | - | 319,203 |
| Paper board..... | 399 | 29,068 | - | - | 75 | 10,250 |
| Paper..... | - | 947,648 | - | - | - | 298,076 |
| Ink..... | - | 10,235 | - | - | - | 418 |
| Glue and other adhesives. | - | 20,655 | - | - | - | 4,050 |
| Shipping containers..... | - | 12,067 | - | - | - | - |
| Miscellaneous..... | - | 184,461 | - | - | - | 6,409 |
| Total, all materials..... | - | 6,472,726 | - | 61,237 | - | 1,419,937 |
| Board..... | 61,331 | 4,106,993 | 606 | 39,004 | 12,333 | 835,502 |
| Paper..... | - | 1,424,665 | - | 8,881 | - | 452,050 |
| Ink..... | - | 93,663 | - | 33 | - | 10,845 |
| Printing plates..... | - | 52,227 | - | - | - | 563 |
| Die board..... | - | 1,999 | - | - | - | - |
| Die rule..... | - | 4,336 | - | 72 | - | 84 |
| Glue and other adhesives. | - | 169,833 | - | 2,310 | - | 37,451 |
| Paraffin..... | - | 17,097 | - | 41 | - | 95 |
| Silicate of soda..... | - | 14,084 | - | - | - | 12,000 |
| Wrapping paper..... | - | 14,064 | - | 3 | - | 40 |
| Shipping containers..... | - | 24,852 | - | 150 | - | 2,850 |
| Miscellaneous..... | - | 548,933 | - | 10,743 | - | 68,452 |

THE PAPER BOX AND BAG INDUSTRY, 1925.

Table 3.- (Continued).-Materials Used, by provinces, 1925.

| Materials | ONTARIO | | MANITOBA | | ALL OTHER PROVINCES | |
|--|------------------|-------------|------------------|-------------|---------------------|-------------|
| | Quantity tons | Value \$ | Quantity tons | Value \$ | Quantity tons | Value \$ |
| Stiff box materials..... | - | 959,254 | - | 36,687 | - | 23,405 |
| Non-folding board..... | 8,993 | 594,432 | 363 | 27,200 | 143 | 12,102 |
| Paper..... | - | 235,359 | - | 5,895 | - | 6,558 |
| Ink..... | - | 14,163 | - | - | - | 207 |
| Printing plates..... | - | 3,306 | - | - | - | 347 |
| Glue and other adhesives... | - | 39,931 | - | 1,312 | - | 586 |
| Shipping containers..... | - | 5,621 | - | 50 | - | 248 |
| Miscellaneous..... | - | 66,442 | - | 2,230 | - | 3,357 |
| Folding box materials..... | - | 1,343,401 | - | 96,480 | - | 57,318 |
| Folding board..... | 14,726 | 1,066,680 | 727 | 82,180 | 375 | 42,713 |
| Ink..... | - | 50,600 | - | 600 | - | 3,436 |
| Printing plates..... | - | 46,480 | - | 800 | - | 726 |
| Die board..... | - | 1,798 | - | 95 | - | 106 |
| Die rule..... | - | 3,921 | - | 178 | - | 81 |
| Glue and other adhesives... | - | 8,761 | - | 175 | - | 432 |
| Paraffin..... | - | 15,347 | - | 350 | - | 1,264 |
| Silicate of soda..... | - | 2,022 | - | 62 | - | - |
| Wrapping paper..... | - | 13,438 | - | 377 | - | 206 |
| Shipping containers..... | - | 2,501 | - | 50 | - | 1,295 |
| Miscellaneous..... | - | 131,853 | - | 11,613 | - | 7,059 |
| Corrugated box materials..... | - | 1,559,562 | - | 30,514 | - | - |
| Straw board..... | 6,762 | 437,023 | - | - | - | - |
| Other paper board..... | 15,979 | 951,339 | - | - | - | - |
| Paper..... | - | 38,316 | - | 28,034 | - | - |
| Ink..... | - | 3,325 | - | 637 | - | - |
| Glue and other adhesives... | - | 62,270 | - | - | - | - |
| Shipping containers..... | - | - | - | - | - | - |
| Miscellaneous..... | - | 67,289 | - | 1,843 | - | - |
| Bag, envelope and other materials..... | - | 830,983 | - | 53,948 | - | - |
| Paper board..... | 324 | 18,818 | - | - | - | - |
| Paper..... | - | 597,793 | - | 51,779 | - | - |
| Ink..... | - | 9,779 | - | 38 | - | - |
| Glue and other adhesives... | - | 15,851 | - | 754 | - | - |
| Shipping containers..... | - | 12,067 | - | - | - | - |
| Miscellaneous..... | - | 176,675 | - | 1,377 | - | - |
| Total, all materials..... | - | 4,693,200 | - | 217,629 | - | 80,723 |
| Board..... | 46,784 | 3,068,292 | 1,090 | 109,380 | 518 | 54,815 |
| Paper..... | - | 871,468 | - | 85,708 | - | 6,558 |
| Ink..... | - | 77,867 | - | 1,275 | - | 3,643 |
| Printing plates..... | - | 49,786 | - | 800 | - | 1,073 |
| Die board..... | - | 1,798 | - | 95 | - | 106 |
| Die rule..... | - | 3,921 | - | 178 | - | 81 |
| Glue and other adhesives... | - | 126,813 | - | 2,241 | - | 1,018 |
| Paraffin..... | - | 15,347 | - | 350 | - | 1,264 |
| Silicate of soda..... | - | 2,022 | - | 62 | - | - |
| Wrapping paper..... | - | 13,438 | - | 377 | - | 206 |
| Shipping containers..... | - | 20,189 | - | 100 | - | 1,543 |
| Miscellaneous..... | - | 442,259 | - | 17,063 | - | 10,416 |

THE PAPER BOX AND BAG INDUSTRY, 1925.

Table 4.- Capital invested, by provinces, 1925.

| Provinces | Total Capital | Land, buildings, machinery, tools, etc. | Materials on hand stocks in process, etc. | Cash and accounts |
|--------------------------|------------------|--|--|----------------------|
| | \$ | \$ | \$ | \$ |
| Canada..... | 14,379,233 | 8,297,758 | 2,542,413 | 3,539,062 |
| New Brunswick..... | 182,254 | 105,558 | 35,841 | 40,855 |
| Quebec..... | 3,634,623 | 2,413,109 | 587,207 | 634,307 |
| Ontario..... | 9,946,181 | 5,534,499 | 1,781,467 | 2,630,215 |
| Manitoba..... | 332,517 | 173,580 | 75,334 | 83,603 |
| All Other Provinces..... | 283,658 | 71,012 | 62,564 | 150,082 |

Table 5.- Employees, salaries and wages, by provinces, 1925.

| Classes of employment, by provinces. | Employees | | Total | Total salaries and wages \$ |
|---|-----------|---------|-------|---|
| | Males | Females | | |
| | No. | No. | No. | |
| New Brunswick..... | 27 | 45 | 72 | 41,555 |
| Salaried employees..... | 8 | 6 | 14 | 12,692 |
| Employees on wages..... | 19 | 39 | 58 | 28,863 |
| Quebec..... | 437 | 740 | 1,177 | 863,539 |
| Salaried employees..... | 82 | 37 | 119 | 224,521 |
| Employees on wages..... | 355 | 703 | 1,058 | 639,018 |
| Ontario..... | 1,284 | 1,224 | 2,508 | 2,544,828 |
| Salaried employees..... | 243 | 96 | 339 | 726,880 |
| Employees on wages..... | 1,041 | 1,128 | 2,169 | 1,817,948 |
| Manitoba..... | 59 | 63 | 122 | 139,343 |
| Salaried employees..... | 9 | 5 | 14 | 48,061 |
| Employees on wages..... | 50 | 58 | 108 | 91,282 |
| All Other Provinces..... | 23 | 30 | 53 | 59,384 |
| Salaried employees..... | 5 | 3 | 8 | 18,442 |
| Employees on wages..... | 18 | 27 | 45 | 40,942 |
| Canada..... | 1,830 | 2,102 | 3,932 | 3,648,649 |
| Salaried employees..... | 347 | 147 | 494 | 1,030,596 |
| Employees on wages..... | 1,483 | 1,955 | 3,438 | 2,618,053 |

THE PAPER BOX AND BAG INDUSTRY, 1925.

Table 6.- Employees on wages, by months and by provinces, 1925.

| Months | CANADA | New Brunsw- wick | Quebec | Ontario | Manitoba | All Other Provinces |
|-----------------------|--------|------------------------|--------|---------|----------|---------------------------|
| January..... | 3,222 | 53 | 993 | 2,034 | 100 | 42 |
| February..... | 3,253 | 53 | 1,002 | 2,062 | 96 | 40 |
| March..... | 3,330 | 55 | 1,023 | 2,103 | 108 | 36 |
| April..... | 3,368 | 56 | 1,040 | 2,133 | 102 | 37 |
| May..... | 3,408 | 53 | 1,099 | 2,116 | 101 | 39 |
| June..... | 3,358 | 53 | 1,038 | 2,128 | 96 | 43 |
| July..... | 3,354 | 55 | 1,046 | 2,106 | 103 | 49 |
| August..... | 3,327 | 58 | 987 | 2,122 | 109 | 51 |
| September..... | 3,509 | 66 | 1,049 | 2,231 | 114 | 49 |
| October..... | 3,633 | 70 | 1,110 | 2,288 | 114 | 51 |
| November..... | 3,729 | 64 | 1,132 | 2,361 | 119 | 53 |
| December..... | 3,749 | 58 | 1,168 | 2,345 | 123 | 50 |
| Average for year..... | 3,438 | 58 | 1,058 | 2,169 | 108 | 45 |

Table 7.- Working time, by provinces, 1925.

| | Number of firms reporting | Days in operation | | Days idle |
|--------------------------|---------------------------------|--------------------|--------------------|--------------|
| | | On full time | On part time | |
| | | No. | No. | |
| Totals - Canada..... | 99 | 26,359 | 2,310 | 1,427 |
| New Brunswick..... | 4 | 1,129 | 20 | 67 |
| Quebec..... | 25 | 6,537 | 567 | 446 |
| Ontario..... | 61 | 15,965 | 1,687 | 892 |
| Manitoba..... | 6 | 1,772 | 36 | 16 |
| All Other Provinces..... | 3 | 906 | - | 6 |
| Averages per mill-Canada | - | 266 | 23 | 15 |
| New Brunswick..... | - | 282 | 5 | 17 |
| Quebec..... | - | 263 | 23 | 18 |
| Ontario..... | - | 262 | 28 | 14 |
| Manitoba..... | - | 295 | 6 | 3 |
| All Other Provinces..... | - | 302 | - | 2 |

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