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PRELIMINARY REPORT
ON THE
PAPER BOX & BAG INDUSTRY
IN
CANADA
1930 - 1931

(Subject to revision on further examination of individual reports)

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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
FOREIGN BRANCH

Note,- Production figures as given in this bulletin do not necessarily represent the total output in Canada of the commodities listed, as there may be also a considerable production in other industrial groups. For complete information this bulletin must be read with the rest of the series on paper industries and other publications of the Census of Industry.

CANADA

1950-1951

Statistical Service

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS

1950-1951

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DOMINION BUREAU OF STATISTICS
FORESTRY BRANCH
CANADA

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THE PAPER BOX AND BAG INDUSTRY IN CANADA

1930 - 1931.

Ottawa, December, 1932.- A report on the paper box and bag industry in Canada for 1930 and 1931 has just been issued by the Forestry Branch of the Dominion Bureau of Statistics. This report gives the production of firms specializing in the manufacture of paper boxes and bags and covers the greater part of the production of these commodities in Canada. There are, however, a number of other firms classified in other industrial groups which make paper boxes and bags as a side line to their principal production. The firms dealt with in the present report also manufacture commodities other than paper boxes and bags as secondary products.

There were 122 establishments engaged in this industry in 1931 as against 126 in 1930. The distribution by provinces was as follows: Ontario 74; Quebec, 26; Manitoba, eight; British Columbia, eight; New Brunswick, three; Nova Scotia, two; and Alberta, one. Quebec reported a decrease of four plants, New Brunswick one, and British Columbia one. Nova Scotia and Ontario reported an increase of one each.

Capital investment in these concerns decreased from \$21,667,586 to \$21,562,581 in 1931 showing a loss of \$105,005 or .5 per cent. The value placed on lands, buildings, machinery, tools, etc., was given at \$13,824,938; finished products on hand \$1,006,190; materials on hand and stocks in process amounted to \$2,083,678, and cash, trading and operating accounts and bills receivable to \$4,647,775.

The average number of employees in the paper box and bag industry in 1931 was 4,809 or 253 less than the number reported in 1930, and the total sum paid in salaries and wages was \$4,924,682 as compared with \$4,921,735 in 1930. The 753 salaried employees were paid \$1,742,689 and the 4,056 wage-earners received \$3,181,993 during the year.

Cost of fuel totalled \$85,202, a decrease of \$13,592 under \$98,790 reported in 1930. Bituminous coal was valued at \$59,790; gas cost \$7,026; anthracite, \$8,425; fuel oil, \$5,194; coke, \$1,064; wood \$644; lignite coal \$1,453; gasoline, \$479; kerosene \$45 and other fuel \$1,082. Expenditures on electric power during the year amounted to \$91,830 which represented the cost of 4,806,004 k.w.h. Power installation included two steam and one gasoline engines and 1,529 electric motors operated by purchased power with a total rating of 5,170 horse-power.

Materials used in the paper box and bag industry amounted to \$9,627,461 as against \$10,451,641 in 1930. Paper and paper board were used to the amount of \$8,293,603 and formed 86 per cent of the total value of materials employed. Paper of all kinds was valued at \$3,443,653 and included \$16,739 of wrapping paper; paper board totalled 1,360 tons valued at \$106,082; folding board, 24,796 tons at \$1,539,473; non-folding board 20,498 tons at \$940,634. Glue and other adhesives cost \$136,905; ink, \$167,720; silicate of soda, \$131,218; printing plates, \$103,114; shipping containers, \$72,826; paraffin, \$52,990; die rule, \$6,980 and die board \$7,941.

THE PAPER BOX AND BAG INDUSTRY IN CANADA, 1930-1931.

Production in 1931 was valued at \$18,668,563 as compared with the corresponding figure of \$20,836,150 recorded in 1930. The products manufactured in the order of their importance with regard to the value were: corrugated boxes, \$4,795,173; stiff boxes, \$4,329,188; folding boxes, \$4,016,431; bags, n.e.s., \$1,621,704; self-opening bags, \$1,237,313; fibreboard boxes, \$634,980; envelopes, \$423,520; drinking cups, \$267,222; special bags of glassine, waxed paper, cellophane, etc. \$142,358; mailing tubes, \$104,196; egg case fillers \$99,181, millinery bags, \$42,365; all other bags \$29,995, and all other products, including milk bottle caps, soda straws, round board containers, waxed paper, adding machine rolls, bottle wrappers, paper pails, printing, transfer stamps, and mounting displays, \$738,003.

The following tables give, first, a summary of the principal statistics of the industry in 1930 and 1931 followed by comparative detailed tables for both years covering the distribution of establishments, capital invested, employment, fuel, power, materials used and products manufactured.

Table 1. - Principal Statistics, 1930 and 1931.

Items		1 9 3 0	1 9 3 1
Establishments	No.	126	122
Capital Invested	\$	21,667,586	21,562,581
Employees on salaries	No.	722	753
Salaries paid	\$	1,466,352	1,742,689
Employees on wages	No.	4,340	4,056
Wages paid	\$	3,454,883	3,181,993
Fuel used	\$	98,790	85,202
Power employed	\$	110,003	91,830
Cost of materials	\$	10,451,641	9,627,461
Value of products	\$	20,836,150	18,668,563

Table 2. - Distribution of Establishments by Provinces, 1930 and 1931.

Provinces	1 9 3 0	1 9 3 1
CANADA	126	122
Ontario	73	74
Quebec	30	26
Manitoba	8	8
British Columbia	9	8
New Brunswick	4	3
Nova Scotia	1	2
Alberta	1	1

Table 3. - Capital Invested, 1930 and 1931.

Items	1 9 3 0	1 9 3 1
	\$	\$
TOTAL	21,667,586	21,562,581
Land, buildings, fixtures and machinery	13,191,725	13,324,938
Materials, stocks, etc., on hand	3,496,971	2,083,678
x Finished Products on hand	-	1,006,190
Cash, trading and operating accounts	4,978,890	4,647,775

x Not separated in 1930.

THE PAPER BOX AND BAG INDUSTRY, 1930 and 1931.

Table 4.- Employment, 1930 and 1931.

Classes of Employees	Total No. of Employees		Males		Females		Total Salaries and Wages	
	1930	1931	1930	1931	1930	1931	1930	1931
	No.	No.	No.	No.	No.	No.	\$	\$
TOTAL	5,062	4,809	2,485	2,534	2,577	2,275	4,921,735	4,924,682
Salaried employees	722	753	489	560	233	193	1,466,852	1,742,689
Employees on wages	4,340	4,056	1,996	1,974	2,344	2,082	3,454,883	3,181,993

Table 5.- Fuel Used, 1930 and 1931.

Kind of Fuel		Quantity		Value	
		1930	1931	1930	1931
				\$	\$
TOTAL		-	-	98,790	85,202
Bituminous coal, Canadian	tons	4,831	3,530	29,998	22,164
	Imported	7,383	6,453	44,231	37,626
Anthracite coal	"	397	1,259	3,010	8,425
Lignite coal, Canadian	"	550	453	2,116	1,453
Coke	"	172	194	1,254	1,064
Gasoline	gals.	2,910	2,352	619	479
Kerosene	"	1,950	230	230	45
Fuel oil	"	67,631	55,905	6,312	5,194
Wood	cords	371	120	2,218	644
Gas (a) manufactured	M cu. ft.	4,863	10,542	4,540	5,669
(b) natural	"	4,068	4,102	1,340	1,357
Other fuel		-	-	2,132	1,082
Sawdust		320	-	790	-

Table 6.- Electricity Used, 1930 and 1931.

	Quantity		Value	
	1930	1931	1930	1931
			\$	\$
TOTAL	-	-	110,003	91,830
Electricity purchased - metered - K.W.H.	7,227,795	4,806,004	95,104	91,830
Electricity purchased - at flat rate - H.P.	672	-	14,899	-

Not separated in 1931

THE PAPER BOX AND BAG INDUSTRY, 1930 and 1931.

Table 7. -- Power Employed, 1930 and 1931.

Power Units	No. of Units		Total H. P.	
	1930	1931	1930	1931
Steam engines and steam turbines	2	2	200	600
Gasoline, gas and oil engines	1	1	8	8
Total Primary Power	3	3	208	608
Electric motors operated by purchased power	1,523	1,529	7,377	5,170
Total Power	1,526	1,532	7,585	5,778
Total electric motors	1,523	1,529	7,377	5,170
Boilers	26	65	1,441	2,988

Table 8. -- Materials Used, 1930 and 1931.

Materials	Quantity		Value	
	1930	1931	1930	1931
	Tons	Tons	\$	\$
Stiff box materials.....	-	-	2,041,236	1,673,356
Non-folding board.....	22,637	20,498	1,241,698	940,684
Paper.....	1,706	2,792	458,963	440,740
Ink.....	-	-	13,867	8,118
Printing plates.....	-	-	14,270	8,765
Glue and other adhesives.....	-	-	86,979	78,248
Shipping containers.....	-	-	24,986	12,581
Miscellaneous.....	-	-	200,473	184,220
Folding box materials.....	-	-	1,979,042	1,875,984
Folding board.....	25,808	24,796	1,670,028	1,539,473
Ink.....	-	-	94,079	89,629
Printing plates.....	-	-	48,911	59,658
Die board.....	-	-	4,887	7,941
Die rule.....	-	-	6,276	6,930
Glue and other adhesives.....	-	-	23,270	13,660
Paraffin.....	-	-	28,760	26,916
Silicate of soda.....	-	-	2,948	2,552
Wrapping paper.....	-	-	20,471	12,803
Shipping containers.....	-	-	11,786	9,724
Miscellaneous, including paper....	-	-	67,626	106,648

THE PAPER BOX AND BAG INDUSTRY, 1930 and 1931.

Table 8. - Materials Used, 1930 and 1931 - Con.

Materials	Quantity		Value	
	1930 Tons	1931 Tons	1930 \$	1931 \$
Corrugated box and paper materials...	-	-	3,629,438	3,634,673
1/ Corrugating paper— (.009 straw, kraft, etc.).....	-	17,397	-	921,237
Liner board (.015 test, .025 test, .015 kraft etc.)	-	40,736	-	1,923,069
.012 liner (.012 test, .012 screenings)	-	1,126	-	53,239
Chip (.010 and .009).....	-	7,618	-	304,142
Wrapping paper	-	40	-	3,936
Cambric tape.....	-	-	-	171,454
Kraft tape	-	-	-	1,585
Stitching wire.....	-	-	-	1,505
Twine.....	-	-	-	22,223
2/ Straw board.....	15,542	-	893,972	-
Other paper board.....	42,445	-	2,322,294	-
Paper.....	1,088	-	75,622	-
Shipping containers.....	-	-	15,435	-
3/ Ink.....	-	-	21,689	44,684
Printing plates.....	-	-	10,006	12,227
Glue and other adhesives.....	-	-	70,230	10,548
Silicate of soda.....	-	-	106,423	128,666
Miscellaneous.....	-	-	113,767	36,158
Paper bags, envelopes and other materials.....	-	-	2,801,925	2,443,448
Paper board.....	1,385	1,360	112,929	106,082
Paper.....	19,757	18,846	2,365,534	2,064,937
Ink.....	-	-	35,500	25,289
Printing plates.....	-	-	24,238	22,464
Glue and other adhesives.....	-	-	41,034	34,449
Paraffin.....	-	-	41,247	26,074
Shipping containers.....	-	-	60,816	50,521
Miscellaneous, including silicate of soda.....	-	-	120,627	113,632
Total, all materials.....	-	-	10,451,641	9,627,461
Board.....	107,817	96,134	6,240,921	4,866,689
Paper.....	22,551	39,035	2,900,119	3,426,914
Ink.....	-	-	165,135	167,720
Printing plates.....	-	-	97,425	103,114
Die board.....	-	-	4,887	7,941
Die rule.....	-	-	6,276	6,980
Glue and other adhesives.....	-	-	221,513	136,905
Paraffin.....	-	-	70,007	52,990
Silicate of soda.....	-	-	109,371	131,218
Wrapping paper.....	-	40	20,471	16,739
Cambric tape.....	-	-	-	171,454
Kraft tape	-	-	-	1,585
Stitching wire.....	-	-	-	1,505
Twine.....	-	-	-	22,223
Shipping containers.....	-	-	113,023	72,826
Miscellaneous, including silicate of soda and paper.....	-	-	481,301	440,658

1/These items form a new classification for 1931.

2/These items form the old classification used up to 1930.

3/These items are unchanged.

THE PAPER BOX AND BAG INDUSTRY, 1930 and 1931.

Table 9. - Products Manufactured, 1930 and 1931.

Products	Value	
	1930	1931
	\$	\$
TOTAL.....	20,836,150	18,668,563
Stiff boxes.....	5,230,178	4,329,188
Folding boxes.....	4,044,691	4,016,431
Corrugated boxes.....	4,624,339	4,795,173
Envelopes.....	-	423,520
All other boxes.....	718,996	29,995
Fibreboard boxes.....	811,834	634,980
Corrugated paper and wrappers.....	129,742	186,934
Mailing tubes.....	74,996	104,196
Self-opening bags.....	1,307,704	1,237,313
Millinery bags.....	48,674	42,365
Special bags of glassine, waxed paper, cellophane, etc.....	148,246	142,358
All other bags.....	1,829,280	1,621,704
Egg case fillers.....	120,860	99,181
Drinking cups.....	319,700	267,222
All other products including milk bottle caps, soda straws, round paper board containers, waxed paper, adding machine rolls, bottle wrappers, paper pails, printing, transfer stamps, envelopes and mounting displays.....	1,426,910	738,003

Note: Data given here do not necessarily represent the total Canadian production under each heading since these products are also listed under other industries.

Paper Boxes and Bags Were the Principal Products

of the following Firms

NOVA SCOTIA

<u>Name</u>	<u>Address</u>
Maritime Paper Products, Ltd.	150 Almon St., Halifax
Moirs, Ltd.	128 Argyle St., Halifax

NEW BRUNSWICK

Brown, D.F., Paper Box & Paper Co. Ltd.	Coldbrook
Home Paper Box Co., Ltd.	Water St., St. Stephen
Sackville Paper Box Co. Ltd.	Main St., Sackville.

QUEBEC

American Paper Box Co.	977 Aqueduct St., Montreal
Atlas Paper Box Co., Ltd.,	4361 De Bullion St., Montreal
Ayotte, P.V.	171 rue Notre Dame, Trois-Rivieres
Bates-Valve Bag Co., Ltd.	Cap de la Madeleine, H.O. 62 E. 42 St., New York City, U.S.A.
Canada Paper Company (Kilgours Bag Division)	Windsor Mills, H.O. 407 McGill St., Montreal.
Canadian Wirebound Boxes Limited	6259 Notre Dame St. E., Montreal, H.O. 1000 Gerrard St.E., Toronto, Ont.
City Paper Box Co.	736 Notre Dame St. W., Montreal
Dominion Containers Limited	6240 Park Ave., Montreal
Eastern Paper Box Company	Village St. Pierre-Drummondville
Golden Gate Mfg. Co., Ltd.	361 Youville St., Montreal
Globe Paper Box Co.	651 Vitre St., Montreal
Harris Box & Card Co., Ltd.,	Lennoxville
Hinde-Dauch Paper Co. of Canada, Ltd., (Thompson & Norris Div.)	2185 Massen St., Montreal, H. O. Hanna Ave., Toronto (2).
Ideal Paper Box Co., Ltd.	51 Laurier Ave., E., Montreal
Lawson Lithographing & Folding Box Co. Limited, (The)	6629 Esplanade Ave., Montreal
London Paper Box Company	205 Vitre St. West, Montreal
Major Mfg. Co., Ltd.	1740 St. Antoine St., Montreal
Manufacture de Boites St. Hyacinthe	108 rue St. Antoine, St. Hyacinthe
Morency, J. Louis	104 rue St. Mathias, Quebec
Pyramid Paper Products, Ltd.	East Angus, H.O. 451 St. Sulpice St., Montreal.
Quebec Paper Box Co.	45 Dorchester St., Quebec
Royal Paper Box Co.	82 Boulevard Langelier, Quebec
Shipping Containers, Ltd.	155 Beaubien St. W., Montreal
St. Lawrence Paper Bag Co.	59 Des Prairies St., Quebec
United Paper Box Co., Ltd.	642 Decourcelles St., Montreal
Wilson, J. C., Ltd.	1061 St. Alexander St., Montreal

ONTARIO

Acme Paper Box Co. Ltd.	388 Carlaw Ave., Toronto (2)
Automatic Paper Box Co. Ltd.	180 John St., Toronto (2)
Bates Valve Bag Co. Ltd.	Dryden, H.O. 60 East, 42 St., New York, N.Y.
Bell Paper Box Co.	183 Bathurst St., Toronto
Boehmer, A. & C., Ltd.	14 Short St., Kitchener

ONTARIO - (Cont'd)

<u>Name</u>	<u>Address</u>
Brampton Paper Box Co.	58 Nelson St., Brampton
Canadian Containers Ltd.	Grove Ave., Windsor
Canadian Sealright Co. Ltd.	25 Aylmer St., Peterborough
Canadian Shredded Wheat Co. Ltd.	64 Lewis Ave., Niagara Falls
Canadian Wirebound Boxes Ltd.,	1000 Gerrard St. E., Toronto
Collett-Sproule Ltd.	127 Portland St., Toronto (2)
Concord Shipping Cartons Ltd.	26 Ernest Ave., Toronto (9)
Continental Paper Products Ltd.	147 Booth St., Ottawa
Corrugated Paper Box Co. Ltd.	Leaside (Toronto)
Corrugating & Container Co.	75 Biggar St., Hamilton
Crabtree & McKay	142 Weston Road, Toronto (9)
Dominion Boxboards Ltd.	130 Duchess St., Toronto (2)
Dominion Corrugated Paper Co.	142 Weston Road, Toronto
Dominion Envelope & Cartons Ltd.	130 Duchess St., Toronto (2)
Dominion Paper Box Co., Ltd.	469 King St. West, Toronto (2)
Economy Paper Box Co., Ltd.	231 Front St. East, Toronto (2)
Fibre Boxes Ltd.	Commissioners St., Toronto (8)
Fielder Paper Box Co. Ltd.	170 Berkeley St., Toronto (2)
Firstbrook Boxes Ltd.	Roy Avenue, Mt. Dennis
Fisher, Fred W., Co., Ltd.	92 Sherbourne St., Toronto
Frontenac Paper Box Co. Ltd.	105 Pinnacle St., Belleville
Galt Paper Box Co.	49 King St., Galt
Gibb Paper Box Co.	153 King William St., Hamilton
Guelph Paper Box Co., Ltd.	Waterloo St., Guelph
Gunther, E. & A., Co. Ltd.	Cor. Murray & Bruce Sts., Brantford
Hamilton Paper Box Co.	200 King St. West, Hamilton
Hampel Paper Box Co.	27 Bridge St., Brantford
Hinde-Dauch Paper Co. of Canada Ltd.	43 Hanna Ave., Toronto (2)
Houghton Novelty Co. Ltd.	536 Eastern Ave., Toronto
Hygrade Corrugated Products Ltd.	640 William St., London
Individual Cup Co. Ltd.	Cowan Bldg., 100 Sterling Rd., Toronto
Ingersoll Cone & Paper Box Co. Ltd.	King St. W. Ingersoll
Kennedy Car Liner & Bag Co. Ltd.	669 Dundas St., Woodstock
Kilgour's Limited	21 Wellington St. West, Toronto (2)
Kitchener Paper Box Co.	63 William St. East, Waterloo
Lawrason-Doughty Co.	11 Hamilton St., Toronto (8)
London Shipping Containers Ltd.	745 York St., London
Long, A.E., & Co. Ltd.	357 Gerrard St. East, Toronto (2)
Manchester, McGregor Ltd.	372 Richmond St. W., Toronto (2)
Martin Hewitt Containers Ltd.	Park St. South, Peterborough
Novelty Paper Box Co. Ltd.	782 King St. West, Toronto (2)
Offset Cartons Ltd.	21 Prescott Ave., Toronto (9)
Ontario Paper Box Mfg. Co.	118 Sherbourne St., Toronto (2)
Ottawa Paper Box Co. Ltd.	764 Albert St., Ottawa
Paper Products Ltd.	619 Queen St. West, Toronto (2)
Penmans Ltd.	West River St., Paris
Progress Paper Box Co.	40-42 Lombard St., Toronto (2)
Reason, H. T. & Co.	301 Talbot St., London
Reid Bros. & Co. Ltd.	Nightingale Ave., London
Reid, Chas., & Co.	16 Steven St., Hamilton
Robinson Consolidated Cone Co. Ltd.	145 McNab St., N., Hamilton
St. Catharines Paper Box Co.	29 Queenston St., St. Catharines

ONTARIO - (Concluded)

<u>Name</u>	<u>Address</u>
St. Thomas Box Co. Ltd.	606 Talbot St., St. Thomas
Scott & Harvey Ltd.	120 Richmond St. West, Toronto
Shoup, A.D., Co. Ltd.	235 Carlaw Ave., Toronto (8)
Somerville Paper Boxes Ltd.	618 Dundas St., London
Somerville Paper Boxes Ltd.	176 Walker Road, Walkerville, H.O. 618 Dundas St., London
Stephenson Paper Box Co.	64 Carling St., London
Port Elgin Box Co. Ltd.	Port Elgin
Stone-Straw Corporation of Canada Ltd.	575 Adelaide St. W., Toronto (3)
Stratford Paper Box Co.	168 St. Patrick St., Stratford
Telfer Paper Box Co. Ltd.	14 Duncan St., Toronto (2)
Toronto Carton Co. Ltd.	590 King St. W., Toronto (2)
Tresidder Bros. Ltd.	468 Cumberland Ave., Hamilton
Vortex Mfg. Co. (Canada) Ltd.	593 Adelaide St. W., Toronto (2)
White Egg Fillers Ltd.	244 Bay St., Toronto
Woodstock Paper Box Co.	677 Dundas St., Woodstock
York Paper Box Co.	Christie & Dupont Sts., Toronto (3)
Young Bros. Paper Box Co.	24 Ryerson Ave., Toronto (2)

MANITOBA

Acme Paper Box Co., Ltd.	310 Ross Ave., Winnipeg
Adelman Paper Box Co.	197 Princess St., Winnipeg
Brewers & Bottlers Supply Co., Ltd.	Market & Louise Sts., Winnipeg
Dominion Envelope & Cartons (Western), Ltd.	Osborne & Mulvey Sts., Winnipeg
Hilton Bros., Ltd.	680 Wall St., Winnipeg
Martin Paper Products, Ltd.	St. Jean-Baptiste & La Verandrye Sts., St. Boniface
Western Paper Box Co., Ltd.	579 McDermot Ave., Winnipeg
Woods Manufacturing Co. Ltd.	146 Alexander Ave. E., Winnipeg

ALBERTA

Dominion Envelope & Cartons (Western), Ltd.	8124 - 113th Ave., Edmonton, H.O. Osborne & Mulvey St., Winnipeg, Manitoba.
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BRITISH COLUMBIA

Asahi Paper Box Co.	391 Powell St., Vancouver
Bartram Paper Products Co., Ltd.	1280 Homer St., Vancouver
Brewers & Bottlers Supply Co., Ltd.	1088 Mainland St., Vancouver, H. O. Winnipeg
Canadian Boxes, Ltd.	281 Industrial St., Vancouver
Davies Paper Box Co., Ltd.	1670 Pandora St., Vancouver
National Paper Box, Ltd.	160 Third Ave. W., Vancouver
Vancouver Paper Box Co. Ltd.	245 Union St., Vancouver
Victoria Paper Box Co., Ltd.,	1202 Wharf St., Victoria.

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