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# CANADA

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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

FORESTRY BRANCH

PRELIMINARY REPORT

ON THE

# PAPER BOX & BAG INDUSTRY

IN

CANADA

1933

(Subject to revision on further examination of individual reports)

Published by Authority of the HON. R. B. HANSON, M. P., Minister of Trade and Commerce.

> OTTAWA 1934

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.

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DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS - CANADA FORESTRY BRANCH

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Chief, Forestry Branch:	R.	G.	Lewis,	B.Sc.F.

#### THE PAPER BOX AND BAG INDUSTRY IN CANADA, 1933.

Ottawa, November, 1934. - A report on the paper box and bag industry in Canada for 1932 and 1933 has just been issued by the Forestry Branch of the Dominion Bureau of Statistics. This report gives the production of firms engaged wholly or chiefly 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 132 establishments engaged in this industry in 1933 as against 126 in 1932. The distribution by provinces was as follows: - Ontario 81, Quebec 31, Manitoba 7, British Columbia 7, New Brunswick 3, Nova Scotia 2 and Alberta 1. Quebec reported an increase of one plant and Ontario an increase of five.

Capital investment in these concerns increased from \$20,110,391 to \$20,111,982 in 1933. The value placed on lands, buildings, machinery, tools, etc., was given at \$13,475,265, finished products on hand \$906,251, materials on hand and stocks in process amounted to \$2,311,763, and cash, trading and operating accounts and bills receivable to \$3,418,703.

The average number of employees in the paper box and bag industry in 1932 was 4,914 or 260 more than the number reported in 1932, and the total sum paid in salaries and wages was \$4,558,177 as compared with \$4,412,048 in 1932. The 832 salaried employees were paid \$1,674,961 and the 4,082 wage-earners received \$2,883,216 during the year.

Cost of fuel totalled \$99,691 an increase of \$5,321 over \$94,370 reported in 1932. Bituminous coal was valued at \$71,629, anthracite cost \$11,747, gas \$5,827, fuel oil \$5,174, lignite coal \$2,037, coke \$1,349, gasoline \$51, wood \$740, Kerosene \$42 and other fuel \$1,095. Expenditure on electric power during the year amounted to \$100,681 which represented the cost of 5,714,178 k.w.h. Power installation included two steam engines, one gasoline engine and one hydraulic turbine and 1,924 electric motors operated by purchased power with a total rating of 6,200 horse-power.

Materials used in the paper box and bag industry amounted to \$9,563,160 against \$8,787,604 in 1932. Paper and paper board were used to the amount of \$8,210,408 and formed 85.8 per cent of the total value of materials employed. Paper of all kinds was valued at \$2,838,700 and included \$1,054,819 of corrugating paper and \$23,846 of wrapping paper; paper board totalled 6,180 tons valued at \$580,618; folding board 29,474 tons at \$1,611,255; non-folding board 20,623 tons at \$891,130; liner board 43,195 tons at \$2,007,230; chip board 7,022 tons at \$281,475. Glue and other adhesives cost \$128,460; ink \$225,718; silicate of soda \$170,585; printing plates \$158,773; shipping containers \$61,977; paraffin \$49,887; die rule \$11,625 and die board \$7,225.

Production in 1933 was valued at \$17,800,330 as compared with the corresponding figure of \$17,026,439 recorded in 1932. The products manufactured in the order of their importance with regard to the value were: corrugated boxes \$5,161,280;

folding boxes \$4,003,134; stiff boxes \$3,612,418; self-opening bags \$1,278,283; bags n.e.s. \$947,791; fibre board boxes \$508,697; envelopes \$427,602; drinking cups \$208,387; special bags of glassine, waxed paper, cellophane, etc. \$158,362; corrugated paper and wrappers \$84,776; mailing tubes \$75,109; millinery bags \$63,731; all other boxes or cartons \$44,702; ice cream pails \$20,737; oyster pails \$9,310 and all other products including waxed paper, milk bottle caps, soda straws, round paper boxes, round liquid containers, adding machine rolls, egg case fillers, printing, transfer stamps, shipping tags, labels, paper covers, auto panels, display mounting, wrappers, paper, all other, jig saw puzzles, games and novelties, other printed advertising, lithographing, toilet tissue, pads and tablets, and cellophane garment covers \$1,196,011.

The following tables give, first, a summary of the principal statistics of the industry in 1932 and 1933, 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,	1932 and 1933.	
Items	1932	1933
Establishments reporting No. Capital invested \$ Employees on salaries No. Salaries paid \$ Employees on wages No.	126 20,110,391 790 1,621,057 3,864	132 20,111,982 832 1,674,961 4,082
Wages paid	2,790,991 94,370 5,242,682 95,885 8,787,604 17,026,439	2,883,216 99,691 5,714,178 100,681 9,568,160 17,800,330

Table 2 Distribution of Establishments b	y Provinces, 1932 a	and 1933.
Provinces	1932	1933
	No .	No o
CANADA	126	132
Nova Scotia	2	2
New Brunswick	3 30	3 31
Ontario	76	81
Manitoba	7	7
British Columbia	7	7

- 3 -

Items	1932	1933
	\$	\$
TOTAL	20,110,391	20,111,982
Land, buildings, fixtures and machinery Materials, stocks, etc., on hand Finished products on hand Cash, trading and operating accounts	13,994,442 1,868,460 924,582 3,322,907	13,475,265 2,311,763 906,251 3,418,703

Table 3. - Capital Invested, 1932 and 1933.

	Tabl	e 4 I	Imployme	nt, 1932	2 and 19	33.		
Classes of	Tot Numbe Emplo	r of	Mal	es	Fema	les	Total Salari and Wa	es
Employees	1932	1933	1932	1933	1932	1933	1932	1933
	No.	No.	No.	No.	No.	No.	\$	\$
TOTAL	4,654	4,914	2,472	2,655	2,182	2,259	4,412,048	4,558,177
Salaried employees Employees on wages	790 3,864	832 4,082	583 1,889	609 2,046	207 1,975	223 2,036	1,621,057 2,790,991	1,674,961 2,883,216

Table 5	Fuel Used,	1932 and 193	33.				
	Unit of	Quant	tity	Valu	Value		
Kind of Fuel	Measure	1932	1933	1932	1933		
				\$	\$		
TOTAL	-	-		94,370	99,691		
Bituminous coal, Canadian	Tons	3,568	3,988	21,738	25,092		
" " Imported	11	7,433	8,435	42,675	46,537		
Anthracite coal	11	1,701	2,042	10,438	11,747		
Lignite coal, Canadian	II	548	557	1,937	2,037		
Coke	п	189	259	1,058	1,349		
Gasoline	Gals.	2,216	257	597	51		
Kerosene	11	556	181	107	42		
Fuel oil	tt.	68,311	105,437	6,332	5,174		
Wood	Cords	151	136	477	740		
Gas, manufactured	M cu. ft.	8,254	7,147	6,570	4,067		
" natural	tt tt	4,096	4,728	1,359	1,760		
Other fuel	-	-	-	1,082	1,095		

Table 6 Power Employed,	1932 and	1933.			
Power Units		mber Units	Tot Horse-		
	1932	1933	1932	1933	
	0	0	200	005	
Steam engines and steam turbines	2	2	600	265	
Gasoline, gas and oil engines	1	1	8 27	1 24	
Hydraulic turbines or water wheels	L	1	61	64	
TOTAL PRIMARY POWER	4	4	635	290	
Electric motors operated by purchased power	1,790	1,924	5,353	6,200	
TOTAL POWER	1,794	1,928	5,988	6,490	
Boilers	77	80	3,539	3,338	

	Quant	tity	Valu	10
Materials	1932	1933	1932	1933
file, strange that we had a second and the	Tons	Tons	\$	\$
STIFF BOX MATERIALS	-	-	1,529,695	1,548,210
Non-folding board Paper Ink Printing plates Glue and other adhesives Shipping containers Miscellaneous	19,949 1,709 - - - -	20,623 1,496 - - - -	862,118 397,964 25,243 13,537 70,043 19,852 140,938	891,130 370,366 14,246 24,002 75,049 11,390 162,027
FOLDING BOX MATERIALS		-	1,768,102	1,993,679
Folding board Ink Printing plates Die board Die rule Glue and other adhesives Paraffin Silicate of soda Wrapping paper Shipping containers Miscellaneous	25,801      172 	29,474    210 	1,428,864 110,146 69,610 10,819 9,416 13,795 22,880 1,707 16,440 18,317 66,108	1,611,255 127,715 88,131 7,225 11,625 17,631 25,818 164 18,492 13,916 71,707

Table 7. - Materials Used, 1931 and 1932.

	Quant	tity	Valu	16
Materials	1932	1933	1932	1933
	Tons	Tons	\$	\$
CORRUGATED BOX AND BAG MATERIALS	-	-	3,460,702	3,831,487
Corrugating paper (.009 straw,				
chestnut, kraft, etc.)	17,596	20,099	930,903	1,054,819
Liner board (.016 test, .025 test,				
.015 kraft, etc.)	36,669	41,801	1,784,440	1,939,647
.012 liner (.012 test, .012				
screenings)	1,151	1,394	56,623	67,583
Chip (.010 and .009)	6,777	7,022	272,260	281,475
Wrapping paper	62	61	5,929	5,354
Cambric tape	-	-	137,042	148,905
Kraft tape	-	-	2,871	9,077
Silicate of soda	-	-	148,399	170,421
Glue and other adhesives	-	-	1,904	422
Stitching wire	-	-	1,531	2,144
Ink	-	-	43,594	47,093
Printing plates	-	~	13,869	17,164
	-	-	21,372	19,955
Miscellaneous	-		39,965	67,428
PAPER BAG, ENVELOPES AND OTHER MATERIALS .	_	-	2,029,105	2,194,784
Paper board	777	6,180	42,445	580,618
Paper	15,890	11,515	1,758,739	1,389,669
Ink	-	-	24,807	36,664
Printing plates		_	25,129	29,476
Glue and other adhesives	-	-	30,269	35,358
Paraffin	-	-	27,654	24,069
Shipping containers			36,534	36,671
Miscellaneous	-	-	83,528	62,259
TOTAL, ALL MATERIALS	-	-	8,787,604	9,568,160
Board	91,124	106,494	4,446,750	5,371,708
Paper	35,195	33,110	3,087,606	2,814,854
Ink	-	-	203,790	225,718
Printing plates	-		122,145	158,773
Die board	-	-	10,819	7,225
Die rule	-	-	9,416	11,625
Glue and other adhesives	-	- 1	116,011	128,460
Paraffin	885.4		50,534	49,887
Silicate of soda	-	~	150,106	170,585
Wrapping paper	234	271	22,369	23,846
Cambric tape	-		137,042	148,905
Kraft tape			2,871	9,077
Stitching wire	-	-	1,531	2,144
Twine	-		21,372	19,955
Shipping containers	-		74,703	61,977
Miscellaneous			330,539	363,421

Table 7. - Materials Used, 1932 and 1933. - (Concl'd.)

THE PAPER	BOX AN	D BAG	INDUSTRY	IN	CANADA.	1933。

	VAI	UE
Products	1932	1933
	\$	\$
TOTAL	17,026,439	17,800,330
Stiff boxes Folding boxes Corrugated boxes Fibre board boxes All other boxes Corrugated paper and wrappers Mailing tubes Self-opening bags Millinery bags Special bags of glassine, waxed paper, cellophane, etc. All other bags Envelopes XICe cream pails Yoyster pails Drinking cups All other products, including waxed paper, milk bottle caps, soda straws, shipping tags, labels, transfer stamps, display mounting, paper covers, adding machine rolls, auto panels, round liquid containers, round paper	3,583,033 3,808,807 4,815,776 696,497 56,473 126,508 96,987 1,294,212 51,198 119,801 1,017,849 393,206	3,612,418 4,003,134 5,161,280 508,697 44,702 84,776 75,109 1,278,283 63,731 158,362 947,791 427,602 20,737 9,310 208,387
boxes, wrappers, paper, all other, printing, lithographing, egg case fillers, jig saw puzzles, games and novelties,		
other printed advertising, toilet tissue, pads and tablets and cellophane garment covers	771,767	1,196,011

Table 8. - Products Manufactured, 1932 and 1933.

NOTE: - Data given here do not necessarily represent the total Canadian production under each heading since these products are also listed under other industries. <sup>X</sup>Not specified in 1932.

The following firms were engaged wholly or chiefly in the manufacture of paper boxes and bags in 1933,

## NOVA SCOTIA

Maritime Paper Products, Limited, Moirs Limited, 150 Almon Street, Halifax. 121-133 Grafton Street, Halifax. (H.O. - 128 Argyle Street, Halifax).

#### NEW BRUNSWICK

Brown, D. F., Paper Box & Paper Company Ltd., Coldbrook. Ganong Bros. Limited, Water Stre Sackville Paper Box Company Limited, Main Stree

Water Street, St. Stephen. Main Street, Sackville.

#### QUEBEC

American Paper Box Company, Atlas Paper Box Company Limited, Ayotte, P. V., Bates-Valve Bag Company Limited.

Canada Paper Company, (Kilgours Bag Division),

Canadian Sturdy Chain Company Limited, Canadian Wirebound Boxes Limited,

City Paper Box Company, Dominion Containers Limited, Eastern Paper Box Company, Globe Paper Box Company, Hinde & Dauch Paper Co. of Canada, Ltd.,

Ideal Paper Box Company, Limited, Laurentide Paper Box Company, Lawson Lithographing & Folding Box Company Limited, (The), London Paper Box Company Limited, Major Paper Box and Wire Works Limited, Manufacture de Boîtes de St. Hyacinthe, Morency, J. Louis, Inc., Nu-Way Box Company Limited, Page-Sangster Printing Company Limited,

Premier Paper Box Limited, Pyramid Paper Products Limited,

Quebec Paper Box Company, Royal Paper Box Company, Shipping Containers, Limited, St. Johns Paper Box Company Limited, St. Lawrence Paper Bag Company, Transparent Garment Cover Company, United Paper Box Company Limited, Wilson, J. C., Limited,

Acme Paper Box Company Limited, Altman, Max, Automatic Paper Box Company Limited, Bates Valve Bag Company Limited.

Bell Paper Box Company Limited, Boehmer, A. & C., Limited, Brampton Paper Box,

2451 DeMontigny Street East, Montreal. 4361 De Bullion Street, Montreal. 1465 rue Notre Dame, Trois Rivières. Cap de la Madeleine. (H.O. - 60 East 42nd Street, New York City, U. S. A.). Windsor Mills. (H.O. - 407 McGill Street, Montreal). George Street, Sherbrooke. P. O. Box 767. 6259 Notre Dame Street East, Montreal. (H.O. - 1000 Gerrard Street East, Toronto, Ontario). 736 Notre Dame Street West, Montreal. 6240 Park Avenue, Montreal. Village St. Pierre-Drummondville. 651 Vitre Street West, Montreal. 2185 Masson Street, Montreal. (H.O. - 43 Hanna Avenue, Toronto 2, Ont.) 51 Laurier Street East, Montreal. 84a St. Catherine Street, Grand Mere. 6629 Esplanade Avenue, Montreal. 3451 St. James Street West, Montreal. 1740 St. Antoine Street, Montreal. 108 rue St. Antoine, St-Hyacinthe. 104 rue St. Mathias, Québec. 2027-2035 St. Timothee Street, Montreal. Minto Street, Sherbrooke. (H.O. - 15-19 Albert Street). 1615 Poupart Street, Montreal. East Angus. (H.O. - 451 St. Sulpice Street, Montreal). 45 Dorchester Street, Quebec. 82 Boulevard Langelier, Quebec. 155 Beaubien Street West, Montreal. St. Johns. 59 Des Prairies Street, Quebec. Room 607, 1435 Bleury Street, Montreal. 644 DeCourcelles Street, Montreal. 1061 St. Alexander Street, Montreal.

#### ONTARIO

388 Carlaw Avenue, Toronto 2.
67B Bellevue Avenue, Toronto.
30 Logan Avenue, Toronto.
Dryden. (H.O. - 60 East 42nd Street, New York City, U. S. A.)
181 Bathurst Street, Toronto.
14 Short Street, Kitchener.
6 Nelson Street, Brampton.

### ONTARIO - (Cont'd.)

Canadian Containers Limited, Canadian Sealright Company Limited, Canadian Shredded Wheat Company Limited, Canadian Wirebound Boxes Limited, Collett-Sproule Limited, Concord Shipping Cartons Limited, Continental Paper Products Limited, Continental Paper Products Limited, Connolly Paper Box, Corrugated Paper Box Company Limited, Corrugating & Container Company Limited, Dominion Boxboards Limited, Dominion Corrugated Paper Company Limited, Dominion Envelope & Cartons Limited, Dominion Paper Box Company Limited, Fibre Boxes Limited,

Fielder Paper Box Company Limited, Firstbrook Boxes Limited, Fisher, F. W., Company Limited, Frontenac Paper Box Company Limited, Galt Paper Box Limited, Gibb Paper Box Company, Goldring, W. G., Guelph Paper Box Company Limited, Gunther, E. & A., Company Limited, Hamilton Paper Box Company, Hampel Paper Box Company, Higgs Paper Box, Hinde & Dauch Paper Co. of Canada Limited, Houghton Novelty Company Limited, (The), Hygrade Corrugated Products Limited, Ideal Containers Limited, Individual Cup Company Limited, Ingersoll Cone & Paper Box Company Limited, Jones, H. J., - Sons Limited, Jones Box & Label Limited, Kennedy Car Liner & Bag Company Limited, Lawrason-Doughty Company, London Shipping Containers Limited, Long, A. E., & Company Limited, Manchester, McGregor Limited, Martin, Hewitt Containers Limited, Niagara Paper Box Company Limited, Novelty Paper Box Company Limited, Offset Cartons Limited, Ontario Paper Box Manufacturing Company. Ottawa Paper Box Company Limited, Paper Products Limited, Penmans Limited, Port Elgin Box Company Limited, Progress Paper Box Company,

Grove Avenue, Windsor. 25 Aylmer Street, Peterborough. 64 Lewis Avenue, Niagara Falls. 1000 Gerrard Street East, Toronto. 127 Portland Street, Toronto. 26 Ernest Avenue, Toronto. 147 Booth Street, Ottawa. 310 Spadina Avenue, Toronto. Leaside, (Toronto). 75 Biggar Avenue, Hamilton. 130 Duchess Street, Toronto 2. 142 Weston Road, Toronto. 130 Duchess Street, Toronto 2. 469 King Street West, Toronto 2, Commissioner Street, Toronto. (H.O. - 130 Duchess Street). 170 Berkeley Street, Toronto 2. Ray Avenue, Mt. Dennis. 92 Sherbourne Street, Toronto. 105 Pinnacle Street, Belleville. 49 King Street, Galt. 153 King William Street, Hamilton. 240 Victoria Street, Kitchener. Waterloo Street, Guelph. Corner Murray & Bruce Streets, Brantford. 200 King Street West, Hamilton. 27 Bridge Street, Brantford. 21 Wellington Street West, Toronto. 43 Hanna Avenue, Toronto 2. 536 Eastern Avenue, Toronto. 640 William Street, London. 866 Lakeshore Road, New Toronto. Cowan Building, 100 Sterling Road, Toronto. King Street West, Ingersoll. 1157 Dundas Street, London. 1173 Dundas Street, London. 669 Dundas Street, Woodstock. 11 Hamilton Street, Toronto 8. 745 York Street, London. 357 Gerrard Street East, Toronto 2. 372 Richmond Street West, Toronto 2. Park Street South, Peterborough. 622 Clifton Avenue, Niagara Falls. 782 King Street West, Toronto 2. 21 Prescott Avenue, Toronto 9. 118 Sherbourne Street, Toronto 2, 764 Albert Street, Ottawa. 619 Queen Street West, Toronto 2. West River Street, Paris Port Elgin. 40-42 Lombard Street, Toronto 2.

## ONTARIO - (Concl'd.)

Purity Fibre Products Company (Canada) Ltd., 103-111 Bathurst Street, Toronto.Reason, H. T., & Company,301 Talbot Street, London.Reid Bros. & Company Limited,Nightingale Avenue, London.Reid, Chas., & Company,16 Steven Street, Hamilton.Robinson Consolidated Cone Company Limited,145 McNab Street North, Hamilton.Robinson, E. S. & A., (Canada), Limited,888 Dupont Street, Toronto.St. Catharines Paper Box Company,29 Queenston Street, St. CatharinSt. Thomas Box Company Limited,606 Talbot Street, St. Thomas.Shoup, A. D., Company Limited,235 Carlaw Avenue, Toronto 8.Somerville Paper Boxes Limited,618 Dundas Street, London.Somerville Paper Boxes Limited,176 Walker Road, Walkerville.

Stephenson Paper Box Company, Stone-Straw Corporation of Canada Limited, Stratford Paper Box Company, Superior Box Company Limited, Telfer Paper Box Company Limited, Thompson Folding Paper Box Company Limited, Toronto Carton Company Limited, Tresidder Bros. Limited, Vortex Manufacturing Company (Canada) Ltd., (The),

Wedlock Paper Bag Company Limited,

York Paper Box Company Limited,

York Paper Box Company Limited,

Young Bros. Paper Box Company,

301 Talbot Street, London. Nightingale Avenue, London. 16 Steven Street, Hamilton. 145 McNab Street North, Hamilton. 888 Dupont Street, Toronto. 29 Queenston Street, St. Catharines. 606 Talbot Street, St. Thomas. 235 Carlaw Avenue, Toronto 8. 618 Dundas Street, London. 176 Walker Road, Walkerville. (H.O. - 618 Dundas Street, London). 64 Carling Street, London. 575 Adelaide Street West, Toronto 3. 168 St. Patrick Street, Stratford. 63 William Street East, Waterloo. 14 Duncan Street, Toronto 2. 69 Sherbourne Street, Toronto. 590 King Street West, Toronto 2. 468 Cumberland Avenue, Hamilton.

593 Adelaide Street West, Toronto 2. 72-76 Duchess Street, Toronto.

Woodstock. (H.O. - 72 Crawford Street, Toronto). Dupont & Christie Streets, Toronto. (H.O. - 72 Crawford Street, Toronto). 24 Ryerson Avenue, Toronto 2.

#### MANITOBA

Acme Paper Box Company Limited,310 Ross Avenue, Winnipeg.Adelman Paper Box Company Limited,197 Princess Street, Winnipeg.Dominion Envelope & Cartons (Western), Ltd.,0sborne & Mulvey Streets, Winnipeg.Hilton Bros Limited,680 Wall Street, Winnipeg.Martin Paper Products Limited,St. Jean-Baptiste & La Verandrye St

Western Paper Box Company Limited, Woods Manufacturing Company Limited, 310 Ross Avenue, Winnipeg.
197 Princess Street, Winnipeg.
Osborne & Mulvey Streets, Winnipeg.
680 Wall Street, Winnipeg.
St. Jean-Baptiste & La Verandrye Streets, St. Boniface.
579 McDermot Avenue, Winnipeg.
146 Alexander Avenue East, Winnipeg.
(H.O. - 2660 Mullins Street,

Montreal, Quebec).

#### ALBERTA

Dominion Envelope & Cartons (Western) Ltd., 8124 113th Avenue, Edmonton.

(H.O. - Osborne & Mulvey Streets, Winnipeg, Manitoba).

# BRITISH COLUMBIA

Asahi Paper Box Company, Bartram Paper Products Company Limited, Canadian Boxes Limited, Davies Paper Box Company Limited, National Paper Box Limited, Vancouver Paper Box Company Limited, Victoria Paper Box Company Limited, 391 Powell Street, Vancouver.
1280 Homer Street, Vancouver.
281 Industrial Street, Vancouver.
1670 Pandora Street, Vancouver.
160 Third Avenue West, Vancouver.
245 Union Street, Vancouver.
1202 Wharf Street, Victoria.

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