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Published by Authority of the Hon. James A. MacKINNON, M.P.,
Minister of Trade and Commerce

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DEPARTMENT OF TRADE AND COMMERCE
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CENSUS OF INDUSTRY
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THE LIME INDUSTRY
IN
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1945



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LIME INDUSTRY, 1945

Production of lime in Canada during 1945 totalled 832,253 tons valued at \$6,525,038, a decline of 6 percent in quantity and 6 percent in value from the corresponding figures for 1944. This year's output included 708,173 tons of quicklime at \$5,579,868, and 124,080 tons of hydrated lime at \$945,170. About 95 percent of the quicklime and 49 percent of the hydrated lime were used by chemical and other industrial plants, and 5 percent and 51 percent, respectively, were used by the building trades and for agriculture.

Stone used in the production of lime in Canada includes calcium, high calcium and dolomitic varieties of limestone. It is estimated that approximately 1,482,000 tons of limestone were consumed in the production of lime in 1945. In addition, a considerable tonnage of lime was recovered as a by-product from chemical and allied plants.

In 1945 there were 44 active plants in this industry and the average number of employees for the year was 856. Expenditures by the operators included \$1,473,829 for salaries and wages, \$1,644,077 for fuel and electricity, and \$424,412 for containers and process supplies.

Imports of lime in 1945 totalled 6,354 tons at \$35,766 and exports amounted to 20,842 tons at \$235,362.

Table 1 - Principal Statistics For the Lime Industry in Canada, 1936-1945

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electri- city	Cost of pro- cess supplies and con- tainers	Gross value of
						products sold during year including containers (f.o.b. works)
	No.	No.	\$	\$	\$	\$
1936	57	799	640,322	743,663	96,316	3,335,970
1937	57	872	781,274	871,131	167,827	3,824,917
1938	53	867	795,068	826,230	113,759	3,542,652
1939	59	937	849,468	944,502	107,510	4,003,514
1940	55	962	1,003,671	1,424,047	260,321	5,277,377(x)
1941	50	1,105	1,321,571	2,008,142	188,387	6,357,941
1942	48	1,022	1,312,320	2,421,292	177,268	6,530,839
1943	45	898	1,408,393	1,747,012	177,470	6,832,992
1944	42	815	1,414,426	1,752,723	293,827	7,051,785(x)
1945	44	856	1,473,829	1,644,077	424,412	6,732,348(x)

(x) 1940, 1944 and 1945 are the only years in which the value of containers is available.

Table 2 - Employees, Salaries and Wages in the Lime Industry in Canada, 1940-1945

Year	Number of Employees				Total em- ployees	Salaries	Wages	Total salaries and wages
	On Salaries		On Wages					
	Male	Female	Male	Female				
1940	67	10	885	...	962	127,943	875,728	1,003,671
1941	76	16	1,013	...	1,105	150,695	1,170,876	1,321,571
1942	80	18	924	...	1,022	161,777	1,150,543	1,312,320
1943	78	21	797	2	898	158,629	1,249,764	1,408,393
1944	80	22	713	...	815	178,302	1,235,624	1,414,426
1945	81	19	748	8	856	194,191	1,279,638	1,473,829

Table 3 - Wage-earners in the Lime Industry in Canada, By Months, 1944 and 1945

Month	1 9 4 4					1 9 4 5				
	Quarry		Kiln		Total	Quarry		Kiln		Total
	Male	Female	Male	Female		Male	Female	Male	Female	
January ...	242	...	469	...	711	213	1	484	9	707
February ..	237	...	486	...	723	217	1	508	8	734
March	248	...	498	...	746	225	1	528	9	763
April	235	...	495	...	730	220	1	521	8	750
May	237	...	486	...	723	211	1	519	7	738
June	232	...	477	...	709	206	1	499	7	713
July	242	...	468	...	710	212	1	513	7	733
August	222	...	447	...	669	224	1	499	5	729
September .	229	...	453	...	682	220	1	514	7	742
October ...	215	...	491	...	706	232	1	590	7	830
November ..	237	...	486	...	723	264	1	584	8	857
December ..	224	...	432	...	656	230	1	537	5	773
Average	237	...	476	...	713	222	1	526	7	756

Table 4 - Number of Wage-earners Who Worked the Number of Hours Specified During One Week in Month of Highest Employment, Including Overtime, 1945

Hours	Male	Female	Hours	Male	Female
30 hours or less	30	...	51-54 hours	153	...
31-43 hours	63	1	55 hours	36	...
44 hours	59	...	56-64 hours	172	...
45-47 hours	16	...	65 hours and over ...	94	...
48 hours	279	7	Grand Total	921	8
49-50 hours	19	...	Total wages paid in that week	\$ 29,109	219

Table 5 - Fuel and Electricity Used in the Lime Industry in Canada, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Value \$	Quantity	Value \$
Bituminous coal - Canadian ...	short ton	21,472	205,714	27,193	231,938
Imported ...	short ton	87,824	640,752	83,998	611,727
Anthracite coal	short ton	20,548	197,563	13,480	127,804
Lignite coal	short ton	347	2,686	72	299
Coke	short ton	18,425	207,286	17,466	198,034
Gasoline	Imp.gal.	111,758	32,740	83,299	24,066
Kerosene	Imp.gal.	349	88	124	35
Fuel oil and diesel oil	Imp.gal.	1,555,615	90,752	1,668,953	96,622
Wood	cord	45,417	289,634	40,511	268,558
Other fuel .....	...	...	493	...	2,803
Electricity purchased	K. W. H.	13,336,125	85,015	13,066,363	82,191
Total .....	...	...	1,752,723	...	1,644,077

Table 6 - Power Equipment (including stand-by or emergency equipment) 1944 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power(x)	Number of units	Total horse power(x)
<u>1 9 4 4</u>				
Steam engines	5	190	...	...
Steam turbines .....	...	...	...	...
Diesel engines	5	570	...	...
Gasoline, gas and oil engines (except Diesels)	21	695	1	100
Hydraulic turbines or water wheels .	6	105	...	...
Electric motors run by purchased power	508	7,799	14	338
Total	545	9,359	15	438
Electric motors run by power generated by above primary units ..	65	843	2	40
Stationary boilers	10	1,303	7	392
Motor-generator sets .....	...	...	...	...
<u>1 9 4 5</u>				
Steam engines	3	125	...	...
Steam turbines .....	...	...	...	...
Diesel engines	5	570	...	...
Gasoline, gas and oil engines (except Diesels)	13	462	...	...
Hydraulic turbines or water wheels .	6	105	...	...
Electric motors run by purchased power	506	8,025	11	329
Total	533	9,287	11	329
Electric motors run by power generated by above primary units ..	69	786	...	...
Stationary boilers	9	1,373	7	447
Motor-generator sets .....	...	...	...	...

(x) According to manufacturers' rating.

Table 7 - Production of Lime in Canada, 1931-1945

Year	Sold or Used (x)		Year	Sold	Used by producer	Total Value
	Short tons	Value					Short tons	Short tons
1931	344,785	2,764,415	1939	288,252	263,957	4,003,514
1932	320,650	2,394,537	1940	359,180	357,550	5,194,555
1933	323,540	2,432,306	1941	451,361	409,524	6,357,941
1934	368,113	2,745,797	1942	470,882	413,948	6,530,839
1935	405,419	2,925,791	1943	484,177	423,591	6,832,992
1936	468,401	3,335,970	1944	470,035	415,107	6,926,844
1937	549,353	3,824,917	1945	416,030	416,223	5,525,038
1938	486,922	3,542,652				

(x) Separate data for Sold and Used not available until 1939.

Table 8 - Lime Sold or Used for Chemical and Other Purposes in Canada, 1931-1945

Year	Lime sold or used for chemical and industrial purposes				Lime sold or used for building or other non-industrial purposes			
	Quicklime		Hydrated Lime		Quicklime		Hydrated Lime	
	Short tons	\$	Short tons	\$	Short tons	\$	Short tons	\$
1931	213,782	1,469,434	18,055	167,885	65,726	595,550	47,222	531,546
1932	234,342	1,627,720	21,130	131,178	33,926	287,795	31,252	347,844
1933	207,463	1,496,271	28,347	168,675	60,464	459,451	27,266	307,909
1934	201,609	1,440,221	28,297	158,685	106,513	798,035	31,694	348,856
1935	229,597	1,596,518	31,288	179,139	112,450	828,904	32,084	321,230
1936	349,940	2,499,074	39,384	171,192	41,559	290,898	37,518	374,806
1937	421,867	2,922,482	44,929	189,665	44,671	329,901	37,886	382,869
1938	373,278	2,587,329	30,547	159,598	42,483	365,762	40,614	429,963
1939	424,287	2,887,244	30,861	172,062	50,466	439,403	46,595	504,805
1940	568,479	3,944,746	44,421	256,570	55,324	477,010	48,506	516,227
1941	665,319	4,797,078	86,202	496,531	58,545	490,633	50,819	573,699
1942	712,307	5,314,653	85,252	386,809	36,975	331,396	46,296	497,981
1943	730,499	5,642,420	94,224	381,250	35,648	347,668	47,397	461,654
1944	700,708	5,545,695	89,576	413,573	37,494	402,384	57,364	565,192
1945	671,341	5,159,761	60,926	323,484	36,832	420,107	63,154	621,686

Table 9 - Production of Lime in Canada, By Provinces, 1944, Showing Purposes for Which Used (x) or Sold

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	Total Canada
(1 ton = 2,000 pounds)							
<u>Quicklime</u>							
Building trades -							
Finishing lime	ton	...	...	111	3,328	...	3,439
	\$	...	...	2,013	42,492	...	44,505
Masons' lime	ton	160	4,961	11,426	552	...	17,099
	\$	1,070	92,580	101,295	6,556	...	201,501
Agriculture	ton	...	54	316	...	...	370
	\$	...	810	2,375	...	...	3,185
<u>Chemical -</u>							
Smelters (non-ferrous)	ton	...	13,745	4,079	1,800	...	19,624
	\$	...	98,552	28,268	14,450	...	141,270
Iron and steel furnaces (x)	ton	5,194	3,655	26,589	700	2,538	38,676
	\$	66,663	34,105	191,936	5,600	19,289	317,593
Cyanide and flotation mills	ton	...	1,184	6,525	6,796	320	14,825
	\$	...	8,586	48,376	64,078	2,432	123,472
Pulp and paper mills	ton	13,228	99,790	8,756	11,353	26,420	159,547
	\$	142,045	776,546	65,049	86,931	245,680	1,316,251
Glass works	ton	...	...	14,680	52	...	14,732
	\$	...	...	122,617	416	...	123,033
Sugar refineries	ton	167	10	3,566	8,901	30	12,674
	\$	2,161	225	40,811	73,830	228	117,255
Tanneries	ton	4	1,229	3,294	...	...	4,527
	\$	52	10,587	23,157	...	...	33,796
Sand-lime brick	ton	...	1,892	3,319	...	...	5,211
	\$	...	12,327	25,544	...	...	37,871
Fertilizer plants	ton	...	...	319	...	...	319
	\$	...	...	1,854	...	...	1,854
Insecticide plants	ton	...	...	1,650	...	230	1,880
	\$	...	...	7,551	...	1,748	9,299
Other chemical works	ton	177	121,273	306,231	3,855	2,368	433,904
	\$	2,302	1,101,910	2,218,823	20,840	17,997	3,361,872
Uses unspecified	ton	1,650	2,823	817	1,193	4,892	11,375
	\$	24,209	31,685	7,109	15,140	37,179	115,322
Total Quicklime	ton	20,580	250,616	391,678	38,530	36,798	738,202
	\$	238,502	2,167,913	2,886,778	330,333	324,553	5,948,073

Lime

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Table 9 - Production of Lime in Canada, By Provinces, 1944, Showing Purposes for Which Used(x) or Sold (con.)

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	Total Canada
(1 ton = 2,000 pounds)							
<u>Hydrated Lime</u>							
<u>Building trades -</u>							
Finishing lime	ton	...	1,314	19,758	6,775	...	27,847
	\$	...	15,032	245,898	104,234	...	365,164
Masons' lime	ton	330	5,564	6,946	...	...	12,840
	\$	4,105	17,679	68,047	...	...	89,831
Agriculture	ton	...	4,869	2,295	...	6,657	13,821
	\$	...	14,080	24,254	...	46,473	84,807
<u>Chemical -</u>							
Smelters (non-ferrous)	ton	...	66,140	60	60	295	66,555
	\$	...	207,029	573	600	2,059	210,261
Iron and steel furnaces ...	ton	...	...	74	...	...	74
	\$	...	...	768	...	...	768
Cyanide and flotation mills	ton	...	2,226	215	230	36	2,707
	\$	...	5,435	2,308	2,300	251	10,294
Pulp and paper mills	ton	2,200	4,437	4,356	...	45	11,038
	\$	27,368	43,814	42,924	...	314	114,420
Sugar refineries	ton	47	95	...	3,026	...	3,168
	\$	585	973	...	21,372	...	22,930
Tanneries	ton	...	80	842	...	...	922
	\$	...	740	8,817	...	...	9,557
Sand-lime brick	ton	...	...	...	...	...	...
	\$
Fertilizer plants	ton	...	...	680	...	...	680
	\$	...	...	5,612	...	...	5,612
Insecticide plants	ton	...	...	238	...	54	292
	\$	...	...	2,546	...	377	2,923
Other chemical works	ton	3	2,283	1,729	125	...	4,140
	\$	44	17,286	18,228	1,250	...	36,808
Uses unspecified	ton	...	1,458	414	...	984	2,856
	\$	...	14,097	4,424	...	6,869	25,390
Total Hydrated Lime	ton	2,580	88,466	37,607	10,216	8,071	146,940
	\$	32,102	336,165	424,399	129,756	56,343	978,765
GRAND TOTAL	ton	19,798	339,082	429,285	48,746	44,869	885,142
	\$	227,647	2,504,078	3,311,177	460,089	380,896	6,926,844

(f) Includes calcined dolomite used as a refractory material.

(x) Not necessarily consumed in provinces where produced; includes by-product lime.

Note: Of the total quantity of 885,142 tons of lime produced, 415,107 tons were consumed by the producers themselves. Of this amount, 257,999 tons of quicklime were consumed in Ontario plants; 120,618 tons of quicklime in Quebec plants, and the balance, 33,464 tons of quicklime and 3,026 tons of hydrated, in other provinces.

Table 10 - Production of Lime in Canada, By Provinces, 1945, Showing Purposes For Which Used (x) or Sold

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	Total Canada
(1 ton = 2,000 pounds)							
<u>Quicklime</u>							
<u>Building trades -</u>							
Finishing lime	ton	...	38	25	5,505	...	5,568
	\$	...	950	504	52,191	...	53,645
Masons' lime	ton	345	5,708	11,593	739	1,660	20,045
	\$	4,219	105,966	116,238	8,368	14,110	248,901
Agriculture	ton	...	...	186	...	...	186
	\$	...	...	1,321	...	...	1,321

Table 10 - Production of Lime in Canada, By Provinces, 1945 Showing Purposes For Which Used(x) or Sold (con.)

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	Total Canada
<u>Quicklime - Concluded</u>		(1 ton = 2,000 pounds)					
<u>Industrial -</u>							
Smelters (non-ferrous)	ton	...	311	1,039	2,035	...	3,385
	\$	...	2,364	7,290	16,330	...	25,984
Iron and steel furnaces (✓)	ton	2,041	4,914	19,283	700	3,335	30,273
	\$	24,997	43,366	140,740	5,600	28,348	243,051
Cyanide and flotation mills	ton	...	585	5,477	6,982	847	13,891
	\$	...	4,407	42,060	64,659	7,200	118,326
Pulp and paper mills	ton	13,912	102,790	10,762	12,991	33,799	174,254
	\$	156,732	812,230	70,787	101,356	329,900	1,471,005
Glass works	ton	...	...	12,581	...	...	12,581
	\$	...	...	106,406	...	...	106,406
Sugar refineries	ton	180	2	5,496	10,339	...	16,007
	\$	2,201	42	54,014	85,738	...	141,995
Tanneries	ton	4	1,598	2,125	...	...	3,717
	\$	49	13,785	15,029	...	...	28,863
Sand-lime brick	ton	...	1,718	3,795	...	...	5,513
	\$	...	11,854	32,606	...	...	44,460
Insecticide plants	ton	...	...	936	...	...	936
	\$	...	...	6,550	...	...	6,550
Other industrial works	ton	45	122,148	286,591	2,000	...	410,784
	\$	4,261	869,153	2,083,707	16,000	...	2,973,121
Uses unspecified	ton	1,459	4,688	718	1,029	3,139	11,033
	\$	22,966	47,449	5,406	13,738	26,681	116,240
Total Quicklime	ton	17,936	244,490	360,597	42,320	42,780	708,173
	\$	215,425	1,911,566	2,682,653	363,980	406,239	5,579,368
<u>Hydrated Lime</u>							
<u>Building trades -</u>							
Finishing lime	ton	...	10,183	21,843	5,639	...	37,665
	\$	...	42,173	282,267	94,384	...	418,824
Masons' lime	ton	491	589	6,418	...	...	7,498
	\$	6,481	9,442	64,651	...	...	80,574
Agriculture	ton	50	5,258	2,648	...	6,278	14,234
	\$	660	15,091	27,818	...	48,089	91,658
<u>Industrial -</u>							
Smelters (non-ferrous)	ton	...	37,720	1	50	...	37,771
	\$	...	119,550	8	500	...	120,058
Iron and steel furnaces ...	ton	...	...	96	...	...	96
	\$	...	...	1,002	...	...	1,002
Cyanide and flotation mills	ton	...	1,785	205	150	45	2,135
	\$	...	4,141	2,152	1,500	345	8,138
Pulp and paper mills	ton	1,643	5,540	3,089	...	80	10,352
	\$	21,688	52,498	33,047	...	613	107,846
Sugar refineries	ton	40	121	...	3,141	...	3,302
	\$	528	1,241	...	21,651	...	23,420
Tanneries	ton	...	200	1,145	...	...	1,345
	\$	...	1,850	12,103	...	...	13,953
Sand-lime brick	ton	...	...	...	...	...	...
	\$
Insecticide plants	ton	50	...	7	...	300	357
	\$	660	...	73	...	2,298	3,031
Other industrial works	ton	150	2,974	2,344	50	...	5,518
	\$	1,980	20,531	23,025	500	...	46,036
Uses unspecified	ton	...	2,197	254	...	1,306	3,757
	\$	...	17,764	2,872	...	10,004	30,630
Total Hydrated Lime	ton	2,424	66,567	38,050	9,030	8,009	124,080
	\$	31,997	284,271	449,018	118,535	61,349	945,170
GRAND TOTAL	ton	20,410	311,057	398,647	51,350	50,789	832,253
	\$	247,422	2,195,837	3,131,676	482,515	467,588	6,525,038

(✓) Includes calcined dolomite used as a refractory material.

(x) Not necessarily consumed in provinces where produced; includes by-product lime.

Note: Of the total quantity of 832,253 tons of lime produced, 416,223 tons were consumed by the producers themselves.

Table 11 - Imports Into Canada and Exports of Lime and Various Lime Compounds, 1944 and 1945

	1 9 4 4		1 9 4 5	
	Quantity	Value	Quantity	Value
	Tons	\$	Tons	\$
<u>Imports</u>				
Lime - United States	6,698	34,917	6,354	35,766
Total	6,698	34,917	6,354	35,766
<u>Exports</u>				
Building Lime - Greenland .....	...	...	3	69
Newfoundland	21	625	21	338
United States	3	50	135	1,687
Total	24	675	159	2,094
Lime N.O.P. - Jamaica	10	220	10	220
Newfoundland	174	2,418	106	1,580
Greenland	5	75	3	45
St. Pierre	2	37	1	40
United States	15,236	133,372	20,722	233,477
Total	15,427	136,122	20,842	235,362

Directory of Firms in the Canadian Lime Industry, 1945

- (x) Inactive.
- (a) Use calcium or high calcium limestone.
- (b) Use dolomitic limestone.
- (c) Purchase lime.
- (d) Kind of limestone not reported.
- (e) Brucitic limestone.

Name of Firm	Head Office Address	Location of Plant
<u>Nova Scotia -</u>		
Dominion Steel & Coal Corp. Ltd. (b)	Sydney	Sydney
Eastern Lime Co. Ltd. (a) (x)	Windsor	Windsor
<u>New Brunswick -</u>		
Bathurst Power & Paper Co. Ltd. (a)	Bathurst	Bathurst
Purdy & Green Ltd. (a)	204 Metcalfe St., Saint John	Saint John
Snowflake Lime Ltd. (a) (b)	Saint John	Saint John
<u>Quebec -</u>		
Aluminum Company of Canada Ltd. (e)	1700 Sun Life Bldg., Montreal	Wakefield
Arnaud, Edwilda (d)	Joliette	Joliette
Bousquet, Adrien (d)	St. Dominique	St. Dominique
Canadian Refractories Ltd. (e)	1050 Canada Cement Bldg., Montreal	(c)
Carrière Trois-Rivières Ltd. (a)	St. Louis de France	St. Louis de France
Dominion Lime Ltd. (a)	Lime Ridge	Lime Ridge
Cote, Joseph (a)	Metabetchouan	Metabetchouan
Dontigny, Raymond & Armand (d)	Ste. Thécle	Ste. Thécle
Filion, Narcisse (d)	St. Joachim	St. Joachim
Laurentian Stone Co. Ltd. (a)	195 Nicholas St., Ottawa, Ont.	Hull
Limoges, Henri (a)	552 Poupard St., Montreal	St. Michel
Mercure, Camille (a)	555, 16th Ave., St. Hyacinthe	St. Dominique

Directory of Firms in the Canadian Lime Industry, 1945
(Concluded)

Name of Firm	Head Office Address	Location of Plant
<u>Quebec (Concluded) -</u>		
Shawinigan Chemicals Ltd. (a)	Craig St. W., Montreal	Shawinigan Falls
Standard Lime Co. Ltd. (a)	St. Paul de Joliette	St. Paul de Joliette St. Marc des Carrières
Trottier, David (d)	St. Marc des Carrières	St. Marc des Carrières
<u>Ontario -</u>		
Bell, Cecil N. (b)	R. R. 4, Chesley	Sullivan Tp.
Brunner Mond (Canada) Ltd. (a)	Canadian Bank of Commerce Bldg., Toronto	Anderdon Tp.
Canada & Dominion Sugar Co. Ltd. (a)*	Chatham	Chatham and Wallaceburg
Canadian Gypsum Co. Ltd. (b)	170 Bloor St. W., Toronto	Guelph
Carleton Lime Products Ltd. (a)	Box 26, Carleton Place	Carleton Place
Chemical Lime Ltd. (a)	Beachville	Beachville
Gypsum, Lime & Alabastine, Canada, Ltd. (a) (b)	Paris	Beachville, Glen Christie Halton
Jamieson Lime Co. (a)	Renfrew	Horton Tp.
North American Cyanamid Ltd. (a)	Niagara Falls	Niagara Falls
Rockwood Lime Co. (b)	Box 46, Rockwood	Rockwood
Shane Lime & Charcoal Co. Ltd. (a)	Eganville	Grattan Tp.
<u>Manitoba -</u>		
Building Products & Coal Co. Ltd. (b)	111 Christie St., Winnipeg	Inwood
Gypsum, Lime & Alabastine, Canada, Ltd. (b)	Paris, Ont.	(c)
Manitoba Sugar Co. Ltd. (a)	Fort Garry	Fort Garry
Winnipeg Supply & Fuel Co. Ltd. (a) (b)	812 Boyd Bldg., Winnipeg	Moosehorn and Stonewall
<u>Alberta -</u>		
Canadian Sugar Factories Ltd. (a)	Raymond	Raymond and Picture Butte
Errico, M. (d)	Cadomin	Cadomin
Loder's Lime Co. Ltd. (a)	Kananaskis	Kananaskis
Summit Lime Works Ltd. (a)	Box 273, Lethbridge	Crow's Nest District
<u>British Columbia -</u>		
Pacific Lime Co. Ltd. (a)	744 W. Hastings St., Vancouver	Texada Island
Pacific Mills Ltd. (a)	Campbell Ave., Vancouver	Ocean Falls

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