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Lime Canada

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CANADA . *W.D.*

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH

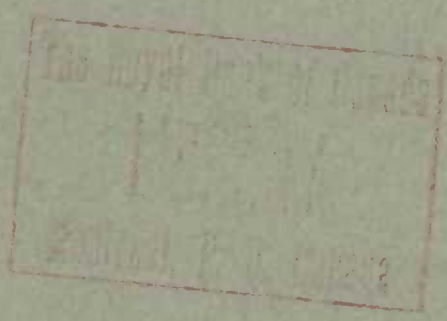
THE LIME INDUSTRY
IN
CANADA
1936



OTTAWA
1938

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

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LIME, 1936.

Sales of lime in 1936 by Canadian producers, including both quick and hydrated, and inclusive of lime used by the producers themselves, amounted to 468,401 short tons valued at \$3,335,970 compared with 405,419 short tons worth \$2,925,791 in 1935. Of the 1936 output, 391,499 tons valued at \$2,789,972 comprised quicklime and 76,902 tons at \$545,998 represented production of the material in the hydrated form. Ontario and Quebec are Canada's two principal lime producing provinces; production in the province first referred to totalled 246,593 short tons valued at \$1,946,060 during 1936 while that in Quebec, in the same period, amounted to 133,254 short tons appraised at \$718,585. Canadian producers received an average of \$7.13 per ton for quicklime and \$7.10 for hydrated lime in 1936 compared with \$7.09 and \$7.90, respectively, in 1935.

Producers' sales of lime for chemical purposes in 1936 totalled 389,324 short tons valued at \$2,670,266 as contrasted with only 79,077 short tons at \$665,704 for building and other non-chemical uses; of the material produced for chemical purposes, 349,940 short tons consisted of quicklime and 39,384 tons of hydrated lime.

The production of lime in 1936 for chemical purposes was 49 per cent greater in quantity and 50 per cent higher in value than that sold or consumed for similar use in 1935.

The pulp and paper industry is one of the largest consumers of lime for chemical purposes; the quantity of quicklime sales to this industry in 1936 was reported by Canadian lime producers at 87,990 short tons valued at \$506,810; hydrated lime shipped to pulp and paper plants during the same period totalled 28,805 short tons worth \$112,809. Other of the larger consignments of producers of lime included 34,704 short tons valued at \$242,593 to iron and steel mills; 40,764 short tons valued at \$302,291 to gold mines; 45,129 short tons at \$447,384 as finishing and masons' lime; 6,377 short tons valued at \$44,310 to glass works, and 7,248 short tons at \$45,386 for the manufacture of sand-lime brick.

Statistics obtained during the census of 1871 show 1,010 lime kilns in operation in Canada. These kilns were located in Nova Scotia, New Brunswick, Quebec and Ontario. Capital invested in plant and equipment as recorded during that year was \$128,508, and employees numbered 2,042 earning \$157,943; the value of lime produced was \$502,156. Canadian lime production reached its highest in 1929 when shipments of 674,087 short tons valued at \$5,908,610 were reached.

In 1936 Canadian producers of lime totalled 52 of which 21 were located in Quebec, 16 in Ontario, 2 in Nova Scotia, 4 in New Brunswick, and 3 in each of the following provinces - Manitoba, Alberta and British Columbia. Capital employed in the industry during 1936 was reported at \$6,106,901; employees totalled 799 and \$640,322 were distributed as salaries and wages. Fuel and purchased electricity consumed during 1936 was valued at \$743,663 and included \$178,648 for 32,960 tons of Canadian bituminous coal, \$282,908 for 53,904 tons of imported bituminous coal, \$81,857 for 11,532 tons of coke, \$120,072 for 40,341 cords of wood, and \$21,420 for fuel oil.

"The lime industry has recently made notable advances in the technology of lime burning and in the variety of products marketed. Research has shown that the temperature and time of calcination have an important bearing on the properties of lime and much greater attention is now being paid to these factors. Refractories for kiln linings are also being studied; vertical kilns have been designed that are almost automatic in operation. The chemical industries are now demanding quicklime in pebble size, in the form of crushed lime, and also finely pulverized, the last two products being packed in multi-walled paper bags with a ply of cellophane or asphalt paper to make the bags air-tight. Dead-burned dolomite for use in glassmaking and as a refractory material, and lightly burned dolomite for use in water treatment are also being marketed though high-calcium lime is usually specified for the latter purpose. Developments in the production of hydrated lime have been mostly in the improvement of plasticity by control of the burning and hydration processes, and also in the production of more plastic hydrates by the addition of certain materials during the hydration process. Hydrated lime is marketed in 50 pound multi-walled bags for industrial use and in small cartons for household use. The possibilities of utilizing carbon dioxide gas from limekilns for the manufacture of liquid carbon dioxide and solid carbon dioxide (dry ice) are being carefully considered and several lime plants both in the United States and in Germany have installed equipment for this purpose. Increased utilization of precipitated calcium carbonate as a filler for book and magazine papers as well as dentifrices and medicines is also of interest to producers of lime. Several lime plants now manufacture precipitated calcium carbonate by recarbonating milk of lime." (M. F. Goudge, Bureau of Mines, Ottawa).

Imports of lime into Canada during 1936 totalled 938 short tons valued at \$12,036 compared with 635 short tons worth \$9,181 in 1935. Exports of lime from Canada in 1936 totalled 11,666 short tons valued at \$97,574 against corresponding exports of 5,230 short tons valued at \$50,296 in the preceding year.

Table 1 - PRINCIPAL STATISTICS OF THE LIME INDUSTRY IN CANADA, 1935 and 1936.

	1 9 3 5	1 9 3 6
Number of firms	49	52
Number of plants	54	57
Capital employed	\$ 5,707,391	6,106,901
Number of employees - On salary	61	73
On wages	695	726
Total	756	799
Salaries and Wages - Salaries	\$ 84,741	90,288
Wages	\$ 471,308	550,034
Total	\$ 556,049	640,322
Selling value of products (gross)	\$ 2,925,791	3,335,970
Cost of fuel and electricity	\$ 686,186	743,663
Process supplies used	\$ 124,251	96,516
Selling value of products (net)	\$ 2,115,354	2,495,991

Table 2 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE 15th OF EACH MONTH OR NEAREST REPRESENTATIVE DATE, 1933 - 1936.

Month	1933		1934		1935		1936	
	Quarry	Kiln	Quarry	Kiln	Quarry	Kiln	Quarry	Kiln
January	202	274	247	337	187	351	240	363
February	185	247	259	339	186	337	240	354
March	209	265	252	332	221	363	254	376
April	218	326	259	360	240	391	281	428
May	305	367	337	442	292	447	293	477
June	337	380	337	440	284	453	318	509
July	361	408	311	425	298	476	306	483
August	350	375	279	390	303	428	293	465
September	339	366	311	399	302	455	293	463
October	323	390	330	418	323	494	308	489
November	288	350	263	396	264	476	273	475
December	273	308	233	341	224	432	263	422

Table 3 - NUMBER OF FIRMS, EMPLOYEES, SALARIES AND WAGES and LIME (QUICK and HYDRATED) SOLD OR USED, BY PROVINCES, 1934, 1935 and 1936.

Province	Number of Firms	Number of employees	Salaries and Wages	Fuel, electricity and process supplies used	PRODUCTION	
					Tons of Lime, Sold or Used	Value (Gross)
			\$	\$		\$
<u>1934</u>						
New Brunswick(✓)	7	75	63,173	(a)	24,672	194,363
Quebec	17	272	175,225	(a)	108,690	631,984
Ontario	19	215	166,297	(a)	191,041	1,536,289
Manitoba	3	68	59,341	(a)	16,568	163,608
Alberta	3	20	20,065	(a)	7,455	65,697
British Columbia.	4	87	51,391	(a)	19,687	153,856
CANADA	53	737	535,492	(a)	368,113	2,745,797
<u>1935</u>						
New Brunswick(✓)	7	98	82,575	49,077	27,603	207,473
Quebec	19	277	172,407	255,840	116,473	678,866
Ontario	14	219	181,342	357,508	220,140	1,696,867
Manitoba	3	75	57,629	80,637	18,615	185,517
Alberta	3	20	23,026	8,807	6,584	57,108
British Columbia.	3	67	39,070	58,568	16,004	99,960
CANADA	49	756	556,049	810,437	405,419	2,925,791
<u>1936</u>						
New Brunswick(✓)	6	121	103,531	63,378	33,506	247,246
Quebec	21	262	199,578	243,636	133,254	718,585
Ontario	16	230	215,211	409,551	246,593	1,946,060
Manitoba	3	79	53,065	88,183	21,760	211,035
Alberta	3	24	24,569	7,470	9,129	78,259
British Columbia.	3	83	44,368	27,761	24,159	134,785
CANADA	52	799	640,322	839,979	468,401	3,335,970

(✓) Includes data relating to two firms in Nova Scotia.

(a) Complete data not available.

Table 4 - FUEL AND ELECTRICITY USED IN THE LIME INDUSTRY IN CANADA, 1935 and 1936.

Kind	Unit of measure	1 9 3 5		1 9 3 6	
		Quantity	Value	Quantity	Value
		\$		\$	
Bituminous coal - Canadian	short ton	30,889	182,306	32,960	178,648
Imported	short ton	48,383	248,387	53,904	282,908
Anthracite coal	short ton	103	601	120	708
Coke	short ton	9,902	69,224	11,532	81,857
Lignite coal	short ton	66	247	85	316
Gasoline (excluding vehicle fuel)	Imp. gal.	15,235	3,328	29,088	6,441
Kerosene	Imp. gal.	24	7	211	54
Fuel oil and diesel oil	Imp. gal.	333,759	14,969	468,402	21,420
Wood	cord	40,784	120,236	40,341	120,072
Electricity purchased	K.W.H.	7,537,151	46,881	8,410,745	51,239
TOTAL	\$	...	686,186	...	743,663

Electricity generated for own use in 1935 totalled 919,163 K.W.H. and 531,242 K.W.H. in 1936.

Table 5 - POWER EQUIPMENT IN CANADIAN LIME PLANTS, 1936.

	Number of units (x)	Total Horse Power
Steam engines and steam turbines	11	500
Diesel engines	3	329
Other internal combustion engines	17	448
Hydraulic water wheels	1	20
Electric motors	318	6,328
Boilers	14	996

(x) Includes reserve equipment.

Table 6 - PRODUCTION OF LIME IN CANADA, 1927 - 1936.

Year	Short tons	Value \$	Year	Short tons	Value \$
1927	444,753	3,923,388	1932	320,650	2,394,537
1928	508,889	4,534,568	1933	323,540	2,432,306
1929	674,087	5,908,610	1934	368,113	2,745,797
1930	490,802	4,038,698	1935	405,419	2,925,791
1931	344,785	2,764,415	1936	468,401	3,335,970

Table 7 - LIME SOLD OR USED FOR CHEMICAL AND OTHER PURPOSES AND VALUE OF CONTRACTS IN CANADA, 1930 - 1936.

Year	Lime Sold or Used for Chemical Purposes		Lime Sold or Used for Building or other Non-Chemical Purposes		Value of Construction Contracts awarded in Canada (a)
	short tons	\$	short tons	\$	
1930	351,443	2,596,112	139,359	1,442,586	456,999,600
1931	231,837	1,637,319	112,948	1,127,098	315,482,000
1932	255,472	1,758,898	65,178	635,639	132,872,400
1933	235,810	1,664,946	87,730	767,360	97,289,800
1934	229,906	1,598,906	138,207	1,146,891	125,811,500
1935	260,885	1,775,657	144,534	1,150,134	160,305,000
1936	389,324(x)	2,670,266	79,077	665,704	162,588,000

(a) Compiled by McLean Building Reports Ltd.

(x) 549,940 short tons quicklime; 39,384 short tons hydrated lime.

Table 8 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1936, SHOWING PURPOSES FOR WHICH USED(x) OR SOLD.

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	CANADA
(1 ton = 2,000 pounds)							
<u>QUICKLIME</u>							
Building trades -							
Finishing lime	ton	...	141	216	1,613	...	1,970
	\$	...	1,380	1,726	16,034	...	19,140
Masons' lime	ton	809	3,629	10,083	478	...	14,999
	\$	6,353	33,217	69,150	4,225	...	112,945
Sand-lime brick	ton	...	891	6,357	...	...	7,248
	\$	...	3,712	41,674	...	...	45,386
Agriculture	ton	930	...	199	...	...	1,129
	\$	4,844	...	1,141	...	...	5,985
<u>CHEMICAL</u>							
Smelters	ton	...	1,638	544	799	...	2,981
	\$	...	15,639	3,418	7,988	...	27,045
Iron and steel mills	ton	15,623	241	10,520	4,397	605	31,386
(a)	\$	117,469	2,132	74,757	35,179	2,807	232,344
Cyanide mills (gold	ton	50	...	28,040	1,057	804	29,951
mines)	\$	510	...	201,655	12,775	7,177	222,112
Pulp and paper mills	ton	7,199	54,244	5,372	9,570	11,605	87,990
	\$	52,168	280,958	32,555	63,442	77,687	506,810
Glass works	ton	...	...	6,268	109	...	6,377
	\$	...	...	43,332	978	...	44,310
Sugar refineries ...	ton	225	9	7,780	6,424	...	14,438
	\$	1,750	67	65,155	51,392	...	118,364
Tanneries	ton	...	372	3,162	...	...	3,534
	\$	...	3,711	22,251	...	...	25,962
Fertilizers	ton	...	...	367	...	...	367
	\$	...	...	2,569	...	...	2,569
Insecticides	ton	...	...	970	...	...	970
	\$	...	...	6,790	...	...	6,790
Other chemical works	ton	...	33,767	138,028	151	...	171,946
	\$	...	218,892	1,092,611	1,260	...	1,512,762
Dealers - Uses Un-	ton	1,331	3,323	1,077	1,305	6,871	13,907
specified..	\$	10,648	25,733	8,009	12,180	31,892	88,462
Other consumers	ton	...	1,056	960	290	...	2,306
	\$	...	7,392	8,058	3,530	...	18,980
TOTAL QUICKLIME ...	ton	26,167	99,311	219,943	26,193	19,885	391,499
	\$	193,742	592,833	1,674,851	208,983	119,563	2,789,972
<u>HYDRATED LIME</u>							
Building trades -							
Finishing lime	ton	12	5	16,322	4,573	...	20,912
	\$	135	50	180,781	78,163	...	259,129
Masons' lime	ton	318	393	6,537	...	...	7,248
	\$	3,064	1,982	51,124	...	...	56,170
Sand-lime brick	ton	...	...	...	...	...	...
	\$
Agriculture	ton	530	807	1,198	...	2,370	4,905
	\$	4,750	4,985	11,878	...	8,435	30,048

Table 8 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1936, SHOWING PURPOSES FOR WHICH USED(x) OR SOLD. (concluded)

		Nova Scotia and New Brunswick	Quebec	Ontario	Mani- toba and Al- berta	British Columbia	CANADA
(1 ton = 2,000 pounds)							
<u>HYDRATED LIME (concluded)</u>							
CHEMICAL -							
Smelters	ton	...	480	118	...	480	1,078
	\$	...	2,715	1,216	...	1,708	5,639
Iron and steel mills	ton	...	3,306	12	...	...	3,318
	\$	...	10,123	126	...	...	10,249
Cyanide mills	ton	...	3,033	...	...	...	3,033
	\$	...	15,019	...	...	...	15,019
Pulp and paper mills	ton	5,700	22,126	939	...	40	28,805
	\$	38,000	65,134	9,532	...	143	112,809
Glass works	ton	...	...	...	...	...	...
	\$
Sugar refineries ...	ton	10	396	...	...	...	406
	\$	90	2,079	...	...	...	2,169
Tanneries	ton	...	319	266	...	...	585
	\$	...	2,259	2,793	...	...	5,052
Fertilizers	ton	...	110	40	...	...	150
	\$	...	660	420	...	...	1,080
Insecticides	ton	398	...	...	...	...	398
	\$	4,497	...	...	...	...	4,497
Other chemical works	ton	...	804	774	33	...	1,611
	\$	...	6,034	8,067	577	...	14,678
Dealers - Uses Un- specified .	ton	371	1,233	98	...	1,384	3,086
	\$	2,968	10,052	1,072	...	4,936	19,028
Other consumers	ton	...	931	346	90	...	1,367
	\$	...	4,660	4,200	1,571	...	10,431
TOTAL HYDRATED LIME.	ton	7,339	33,943	26,650	4,696	4,274	76,902
	\$	53,504	125,752	271,209	80,311	15,222	545,998
GRAND TOTAL	ton	33,506	133,254	246,593	30,889	24,159	468,401
	\$	247,246	718,585	1,946,060	289,294	134,785	3,335,970

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

(x) Not necessarily consumed in provinces where produced.

Table 9 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1935, SHOWING PURPOSES FOR WHICH USED OR SOLD

		Nova Scotia and New Brunswick	Quebec	Ontario	Mani- toba and Al- berta	British Columbia	CANADA
(1 ton = 2,000 pounds)							
<u>QUICKLIME</u>							
Building trades -							
Finishing lime	ton	94	...	246	1,100	...	1,440
	\$	1,011	...	2,328	9,499	...	12,838
Masons' lime	ton	650	3,463	8,760	2,091	...	14,964
	\$	6,000	32,147	53,123	23,084	...	114,354
Sand-lime brick ...	ton	...	162	5,214	...	...	5,376
	\$	...	847	32,641	...	...	33,488

Table 9 -- PRODUCTION OF LIME IN CANADA, 1935, SHOWING PURPOSES FOR WHICH USED OR SOLD (continued)

		Nova Scotia and New Brunswick	Quebec	Ontario	Mani- toba and Al- berta	British Columbia	CANADA
<u>QUICKLIME (concluded)</u>							
Agriculture	ton	700	...	76,001	...	...	76,701
	\$	4,067	...	568,201	...	...	572,268
<u>CHEMICAL --</u>							
Smelters	ton	...	1,374	4,725	813	755	7,667
	\$	...	13,058	25,420	8,133	3,752	50,363
Iron and steel mills	ton	10,998	114	8,214	...	...	19,326
	\$	80,408	1,032	59,409	...	...	140,849
Cyanide mills	ton	...	...	24,687	4,849	621	30,157
	\$	...	...	177,187	42,871	6,454	226,512
Pulp and paper mills	ton	6,026	53,602	3,826	7,375	7,069	77,898
	\$	46,355	283,167	21,399	47,394	52,385	450,700
Glass works	ton	...	...	5,003	88	...	5,091
	\$	...	...	34,558	834	...	35,392
Sugar refineries	ton	200	90	7,072	4,175	...	11,537
	\$	1,700	900	57,441	33,400	...	93,441
Tanneries	ton	...	51	2,343	...	...	2,394
	\$	...	510	15,899	...	...	16,409
Fertilizers	ton	...	...	17	...	...	17
	\$	...	...	119	...	...	119
Insecticides	ton	...	...	583	...	...	583
	\$	...	...	4,083	...	...	4,083
Other chemical works	ton	...	26,961	47,837	129	...	74,927
	\$	...	175,239	402,348	1,063	...	578,650
Dealers -- Uses Un- specified	ton	1,899	3,769	2,110	328	4,240	12,346
	\$	15,588	28,556	15,580	3,674	21,073	84,451
Other consumers	ton	...	1,500	123	...	...	1,623
	\$	...	10,500	1,005	...	...	11,505
TOTAL QUICKLIME	ton	20,567	91,086	196,761	20,948	12,685	342,047
	\$	155,129	545,956	1,470,721	169,952	83,664	2,425,422
<u>HYDRATED LIME</u>							
<u>Building trades --</u>							
Finishing lime	ton	40	...	15,002	4,118	...	19,160
	\$	440	...	160,553	70,345	...	231,338
Masons' lime	ton	250	108	5,628	...	...	5,986
	\$	2,350	815	40,090	...	...	43,255
Sand-lime brick	ton	...	...	...	...	...	...
	\$
Agriculture	ton	650	917	475	...	1,507	3,549
	\$	6,000	5,536	4,527	...	7,399	23,462
<u>CHEMICAL --</u>							
Smelters	ton	...	...	75	...	530	605
	\$	...	...	694	...	2,602	3,296
Iron and steel mills	ton	...	...	23	...	...	23
	\$	...	...	216	...	...	216
Cyanide mills	ton	...	2,633	3	...	15	2,651
	\$	...	15,797	28	...	74	15,899
Pulp and paper mills	ton	5,600	18,452	668	...	157	24,877
	\$	40,000	86,590	6,010	...	771	133,371

Table 9 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1935, SHOWING PURPOSES FOR WHICH USED OR SOLD (concluded)

	Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	CANADA
(1 ton = 2,000 pounds)						
<u>HYDRATED LIME (concluded)</u>						
<u>CHEMICAL (concluded) -</u>						
Glass works	ton	...	...	...	...	...
	\$
Sugar refineries	ton	10	355	...	...	365
	\$	90	2,255	...	...	2,345
Tanneries	ton	...	258	180	...	438
	\$	...	1,954	1,618	...	3,572
Fertilizers	ton	...	295	118	...	413
	\$	...	2,170	1,091	...	3,261
Insecticides	ton	283	...	173	...	456
	\$	1,840	...	1,600	...	3,440
Other chemical works.	ton	...	553	774	133	1,460
	\$	...	4,253	7,158	2,328	13,739
Dealers - Uses Un-	ton	203	1,814	141	...	1,110
specified ..	\$	1,624	13,525	1,371	...	5,450
Other consumers	ton	...	2	119	...	121
	\$	...	15	1,190	...	1,205
TOTAL HYDRATED LIME..	ton	7,036	25,387	23,379	4,251	3,319
	\$	52,344	132,910	226,146	72,673	16,296
GRAND TOTAL	ton	27,603	116,473	220,140	25,199	18,004
	\$	207,473	678,866	1,696,867	242,625	99,960
						2,925,791

Table 10 - IMPORTS INTO CANADA AND EXPORTS OF LIME AND VARIOUS LIME COMPOUNDS, 1935 and 1936.

		1935	1936	1935	1936
		Quantity	Value	Quantity	Value
			\$		\$
<u>IMPORTS -</u>					
Lime	Cwt.	12,706	9,181	18,763	12,036
Calcium chloride in packages of not less than 25 pounds	lb.	924,700	8,163	638,400	5,778
Calcium chloride in packages of less than 25 pounds	lb.	652	175	197	57
Calcium chloride not in solution for road treating purposes	lb.	28,019,000	268,410	24,053,800	227,429
Calcium arsenate	lb.	144,023	7,786	276,552	16,372
Chloride of lime and hypochlorite of lime in packages not less than 25 pounds	lb.	3,413,900	81,371	1,010,100	30,527
Chloride of lime and hypochlorite of lime in packages of less than 25 pounds	lb.	47,229	5,781	46,654	5,463
<u>EXPORTS -</u>					
Lime	cwt.	104,598	50,296	233,328	97,574
Acetate of lime	cwt.	27,433	45,570	63,550	83,620

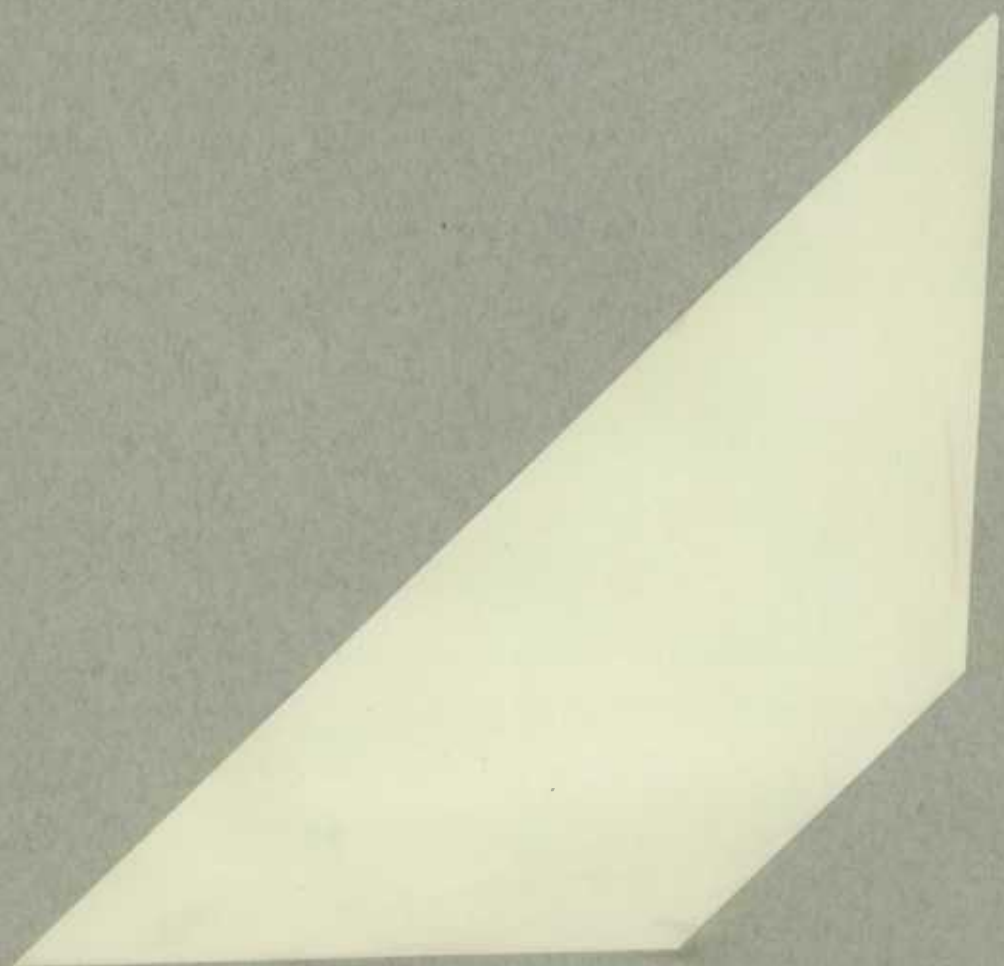
OPERATORS IN CANADIAN LIME INDUSTRY, 1936.

<u>Name of Operator</u>	<u>Head Office Address</u>	<u>Plant Location</u>
<u>NOVA SCOTIA -</u>		
Dominion Steel & Coal Corp. Ltd.	Sydney	Sydney
Eastern Lime Co. Ltd.	Windsor	Windsor
<u>NEW BRUNSWICK -</u>		
Bathurst Power and Paper Co. Ltd.	Bathurst	Bathurst
Purdy & Green, Ltd.	323 Main St., Saint John	Saint John
Randolph & Baker, Ltd.	Randolph	Randolph
Snowflake Lime Ltd.	3 Pokiok Road, Saint John	Saint John
<u>QUEBEC -</u>		
Arnaud & Beaudry	Joliette	Joliette
Boivin, Arthur	Pont Rouge	Pont Rouge
Carswell, Robt. B.	Bryson	Bryson
Comardo, Jos.	Cap St. Martin	St. Michel
Canada Lime & Stone, Ltd.	St. Marc des Carrieres	St. Marc des Carrieres
Cote, Xavier	Metabetchouan	Metabetchouan
Desfond, Gaspard	St. Cuthbert	St. Cuthbert
Dominion Lime Co.	Lime Ridge	Lime Ridge
Drouin, Eva.C.	Ste. Justine	Dorchester Co.
Filion, Narcisse	St. Joachim	St. Joachim
Gagne, Octave	St. Ulric	St. Ulric
Heon and Heon	St. Louis de France	St. Louis de France
Lalumiere, Josephe	St. Dominique de Bagot	St. Dominique de Bagot
La Trappe de N. D. de Mistassini	Village des Peres	Lac St. Jean
Limoges, Henri	552 Poupert St., Montreal	St. Michel
Mercure, C.	9 rue St. Denis, St. Hyacinthe	St. Dominique de Bagot
National Stone & Lime Co.	4403 St. Hubert St., Montreal	St. Marc des Carrieres
Shawinigan Chemcials Ltd.	Box 2670, Montreal	Shawinigan Falls
Standard Lime Co. Ltd.	Joliette	St. Paul de Joliette, St. Marc des Carrieres
Trottier, David	St. Marc des Carrieres	St. Marc des Carrieres
Villeneuve, R.	St. Jerome	St. Jerome
<u>ONTARIO -</u>		
Bell, Harry	R. R. 4, Chesley	Grey county
Biederman, Albert G.	R. R. 1, Golden Lake	Renfrew County
Brown's Lime Works	Owen Sound	Owen Sound
Brunner, Mond Canada, Limited	Canadian Bank of Commerce Bldg., Toronto	Amherstburg
Cameron, W. N.	Carleton Place	Carleton Place
Canada and Dominion Sugar Co. Ltd.	Chatham	Chatham, Wallaceburg
Canadian Gypsum Co. Ltd.	1221 Bay St., Toronto	Guelph

OPERATORS IN CANADIAN LIME INDUSTRY, 1936 (concluded)

<u>Name of Operator</u>	<u>Head Office Address</u>	<u>Plant Location</u>
<u>ONTARIO - (concluded)</u>		
Dennis, Geo. Dominion Rock Products Ltd.	Box 46, Rockwood 941 Dominion Square Bldg., Montreal, P.Q.	Wellington County Eganville
Electro Metallurgical Company of Canada, Limited Gypsum, Lime & Alabastine, Canada, Ltd.	Canada Life Building, Toronto Paris	Welland Beachville, Hespeler, Milton
Innerkip Lime & Stone Co. Ltd.	Beachville	Beachville
Jamieson Lime Co.	Renfrew	Renfrew County
Laurentian Stone Co. Ltd.	195 Nicholas St., Ottawa	Ottawa (x)
North American Cyanamid Ltd.	1901 Royal Bank Bldg., Toronto	Niagara Falls
Shane Lime and Charcoal Co. Ltd.	Eganville	Fourth Chute
<u>MANITOBA -</u>		
Gillis Quarries Ltd.	Richard and Spruce Sts., Winnipeg	Garson, Poplarfield.
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario	Winnipeg
Winnipeg Supply & Fuel Co. Ltd.	812 Boyd Bldg., Winnipeg	Spearhill, Stone- wall.
<u>ALBERTA -</u>		
Canadian Sugar Factories Ltd.	Raymond	Raymond
Loders Lime Co. Ltd.	Kananaskis	Kananaskis
Summit Lime Works	Box 273, Lethbridge	N. Lethbridge
<u>BRITISH COLUMBIA -</u>		
Lyon, F. Pacific Lime Co. Ltd.	Hedley 744 West Hastings St., Vancouver	Hedley Texada Island
Pacific Mills Ltd.	Raymur Ave., Vancouver	Ocean Falls.

(x) Stone quarried in Ontario is calcined in Hull, P.Q.



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