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LIME INDUSTRY, 1939

Production of quick and hydrated lime in Canada during 1939 totalled 552,209 short tons valued at \$4,003,514 compared with 486,922 short tons at \$3,542,652 in 1938. The 1939 output comprised 474,753 short tons of quick lime valued at \$3,326,647 and 77,456 short tons of hydrated lime worth \$676,867. During the year under review, 424,287 tons of quick lime and 30,861 tons of hydrated lime were sold or used by lime producers for chemical purposes while the balance of Canadian lime production, totalling 97,061 tons and consisting of both quick and hydrated was sold or used for building, agricultural and other purposes.

Stone used in the production of lime in Canada included calcium, high calcium and dolomitic varieties of limestone. It is estimated that more than 900,000 tons of limestone was used in the production of lime in 1939. Lime was produced in all Canadian provinces in 1939 with the exception of Prince Edward Island and Saskatchewan; no commercial production was reported in the Territories. Of the total Canadian output of lime in 1939, Ontario plants produced 302,259 tons or 54.7 per cent and Quebec 161,112 tons or 29.2 per cent. Imports of lime into Canada in 1939 came entirely from the United States and totalled 6,058 short tons valued at \$33,342; exports of lime during the same period amounted to 9,209 tons at \$75,172.

During 1939 the industry reported 59 plants as active, capital employed totalled \$4,302,983 and \$349,468 in salaries and wages were distributed to 937 employees. The cost of fuels and purchased electricity used amounted to \$944,502 and the value of explosives, chemicals and other process supplies consumed aggregated \$107,510.

The following information relating to lime production is from a report prepared recently by M. F. Goudge of the Department of Mines and Resources, Ottawa:

"Lime and limestone find important applications in the metallurgy of nickel, lead, copper, chromium, zinc, tin, gold, silver, antimony, cobalt, molybdenum and other metals; the lime is used principally as a reagent in flotation, cyanidation and amalgamation processes. Pulverized limestone (and lime) is spread on acid farm land to sweeten the soil. Lime plays a part in the preparation of many food products such as baking powder and baking soda, gelatin, glucose, dextrin and saccharine. It is also used in the manufacture of citric, tartaric and other organic acids. Lime and limestone find applications in the making of building brick and pottery, silica brick and sand-lime brick. Lime is a valuable enamel constituent in that it increases the opacity of the enamel. In the lime industry noteworthy developments are occurring. Until recent years, there was only a very small market for carbon dioxide and the gas evolved during calcination of limestone had been allowed to go to waste. With increasing demand for carbon dioxide for use as a refrigerant, as an explosive, in chemical processes, in carbonated beverages, etc. ways and means of recovering carbon dioxide from lime kilns have been devised, and it is now being marketed in solid and liquid forms from one lime plant in Australia

and from another in the United States. Equipment is also in use in several places for recovering carbon dioxide from dolomite, leaving lime as a by-product. If the recovery of carbon dioxide becomes a more general practice, as would seem likely, it would probably tend to decrease the cost of making lime, which, in turn, would encourage its greater utilization.

"A large new market for white, high-calcium lime has been created by the use of calcium carbonate filler in place of imported clay in newspaper and magazine paper. Its manufacture in Canada was begun in 1937. At present the paper companies using it purchase the quicklime and make the carbonate filler at their own plants.

"During 1939 Gypsum, Lime and Alabastine, Canada, Limited, erected new vertical, gas fired lime kilns equipped with centre burners at their plants at Beachville, Ontario and at St. Marc des Carrieres, Quebec. These kilns, which are claimed to be the most modern shaft kilns on the American continent, have proved very efficient in operation and represent a notable advance in the technology of manufacturing lime in vertical kilns.

"Lime is marketed in the form of quicklime and in the hydrated state, the latter being a specially prepared slaked lime in the form of a fine powder that is marketed in 50 pound, multi-wall paper bags.

"Quicklime is marketed in the lump, pebble, crushed and pulverized forms; lump lime and pebble lime are sold either in bulk or packed in barrels; crushed lime (1 inch and under) and pulverized lime (ground to minus 20 mesh, and in some plants to minus 50 mesh) are sold in airtight multi-wall paper bags.

"A new chemical use for lime is in the manufacture of a new plastic from pulp-mill waste liquor that promises to be one of the cheapest of all plastics; lime is used three times in the process.

"Prices of the various lime products vary over a wide range depending on the geographical position of the plants and on differences in quality of the lime."

Table 1 - PRINCIPAL STATISTICS OF THE LIME INDUSTRY IN CANADA, 1938 and 1939

	1938	1939
Number of firms	48	54
Number of plants	53	59
Capital employed	\$ 4,881,214	4,802,983
Number of employees - On salary	77	85
On wages	790	852
Total	867	937
Salaries and wages - Salaries	\$ 112,998	128,067
Wages	\$ 682,070	721,401
Total	\$ 795,068	849,468
Selling value of products (gross)	\$ 3,542,652	4,003,514
Cost of fuel and electricity	\$ 826,230	944,502
Process supplies used	\$ 113,759	107,510
Selling value of products (net)	\$ 2,602,663	2,951,502

Compiled by F. Edwards.

Table 2 - CAPITAL EMPLOYED IN THE LIME INDUSTRY IN CANADA, BY PROVINCES, 1939

Province	Capital employed as represented by:					TOTAL
	Present value of cash value of land	Present value of fixtures, machinery, tools and other equipment	Inventory		Operating capital (cash bills and accounts receivable, prepaid expenses, etc.)	
			value of buildings, stone on hand, fuel and miscellaneous supplies on hand	value of Inventory finished products on hand		
	\$	\$	\$	\$	\$	\$
New Brunswick(x)	25,500	111,500	9,900	5,100	43,600	195,600
Quebec	54,665	621,267	144,920	11,488	223,998	1,056,338
Ontario	139,218	2,054,690	220,664	12,281	30,638	2,457,491
Manitoba	(a)	484,500	31,569	11,855	...	527,924
Alberta	2,500	133,175	6,020	5,800	24,364	171,859
British Columbia	5,000	237,032	68,319	10,748	72,672	393,771
CANADA	226,883	3,642,164	481,392	57,272	395,272	4,802,983

(x) Includes data for 2 firms in Nova Scotia. (a) Not recorded.

Table 3 - NUMBER OF FIRMS, EMPLOYEES, SALARIES AND WAGES AND LIME (QUICK AND HYDRATED) SOLD OR USED, BY PROVINCES, 1937, 1938 and 1939

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>1937</u>						
New Brunswick(A)	6	132	128,221	69,030	37,586	300,477
Quebec	21	290	245,357	283,864	156,313	909,116
Ontario	16	250	269,793	491,578	294,467	2,152,644
Manitoba	3	97	67,635	87,952	22,597	215,165
Alberta	3	22	26,727	25,403	10,651	93,478
British Columbia	3	81	43,041	81,131	27,739	154,037
CANADA	52	872	781,274	1,038,958	549,353	3,824,917
<u>1938</u>						
New Brunswick(A)	5	103	99,090	55,640	27,598	230,204
Quebec	19	317	253,422	282,127	137,314	843,331
Ontario	15	248	266,790	454,058	270,478	1,989,259
Manitoba	3	80	67,060	77,092	19,824	198,685
Alberta	3	23	28,990	26,128	12,053	107,012
British Columbia	3	96	79,716	44,944	19,655	174,161
CANADA	48	867	795,068	939,989	486,922	3,542,652
<u>1939</u>						
New Brunswick(A)	6	109	109,925	63,428	33,456	281,409
Quebec	20	346	278,523	392,136	161,112	983,072
Ontario	19	254	276,077	483,428	302,259	2,236,952
Manitoba	3	85	67,509	72,151	20,032	196,190
Alberta	3	25	29,031	20,559	12,499	108,632
British Columbia	3	118	88,403	20,310	22,851	197,259
CANADA	54	937	849,468	1,052,012	552,209	4,003,514

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

Table 4 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED, DURING ONE WEEK IN MONTH OF NORMAL EMPLOYMENT, NOT INCLUDING OVERTIME

Hours	1 9 3 9		Hours	1 9 3 9	
	No.			No.	
30 hours or less	12		51 - 54 hours		167
31 - 43 hours	15		55 hours		97
44 hours	52		56 - 64 hours		265
45 - 47 hours	33		65 hours and over		80
48 hours	233		GRAND TOTAL		980
49 - 50 hours	26		Total wages paid in that week \$		18,030

Table 5 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE 15th OF EACH MONTH OR NEAREST REPRESENTATIVE DATE, 1936 - 1939

Month	1 9 3 6		1 9 3 7		1 9 3 8		1 9 3 9	
	Quarry	Kiln	Quarry	Kiln	Quarry	Kiln	Quarry	Kiln
January	240	363	235	397	266	463	274	450
February	240	354	251	434	242	488	252	449
March	254	376	269	429	278	472	300	489
April	281	428	305	483	298	491	340	492
May	293	477	323	540	329	524	366	539
June	318	509	328	550	341	456	370	522
July	306	483	327	565	341	482	362	539
August	293	465	328	511	333	487	369	538
September	293	463	308	560	318	480	359	549
October	308	489	284	590	302	519	351	585
November	273	475	273	548	286	503	347	539
December	263	422	250	440	263	448	310	471

Table 6 - FUEL AND ELECTRICITY USED IN THE LIME INDUSTRY IN CANADA, 1938 and 1939

Kind	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Value \$	Quantity	Value \$
Bituminous coal - Canadian ...	short ton	36,792	218,943	48,628	305,348
Imported ...	short ton	50,896	256,292	51,137	235,652
Anthracite coal	short ton	21	116	249	1,956
Lignite coal	short ton	80	299	81	302
Coke	short ton	12,545	89,884	13,570	93,136
Gasoline	Imp. gal.	38,694	8,885	50,615	11,429
Kerosene	Imp. gal.	30	9	2,919	577
Fuel oil and diesel oil	Imp. gal.	304,496	13,775	423,422	16,807
Wood	cord	55,465	189,503	50,018	173,403
Gas, natural	M cu. ft.	...	...	165,914	56,362
Electricity purchased	K. W. H.	7,807,485	48,524	9,108,478	49,530
TOTAL .....	\$	...	826,230	...	944,502

Electricity generated for own use in 1938 totalled 1,312,711 K.W.H.; 556,628 K.W.H. in 1937 and 1,247,789 K.W.H. in 1939.

Table 7 - POWER EQUIPMENT IN CANADIAN LIME PLANTS, 1939

	Number of units (x)	Total rated horse power
Steam engines and steam turbines	7	230
Diesel engines	5	421
Other internal combustion engines	21	542
Hydraulic water wheels .....	...	...
Electric motors	349	6,663
Boilers	19	1,292

(x) Includes reserve equipment.

Table 8 - PRODUCTION OF LIME IN CANADA, 1930 - 1939

Year	Short tons	Value	Year	Short tons	Value
		\$			\$
1930	490,802	4,038,698	1935	405,419	2,925,791
1931	344,785	2,764,415	1936	468,401	3,335,970
1932	320,650	2,394,537	1937	549,353	3,824,917
1933	323,540	2,432,306	1938	486,922	3,542,652
1934	368,113	2,745,797	1939	552,209	4,003,514

Table 9 - PRODUCTION OF LIME IN CANADA, 1912 - 1921

Year	Short tons	Value	Year	Short tons	Value
		\$			\$
1912	296,654	1,844,849	1917	229,851	1,558,487
1913	264,547	1,609,398	1918	222,738	1,876,025
1914	246,000	1,360,628	1919	250,163	2,310,607
1915	176,654	1,015,702	1920	329,957	3,818,553
1916	192,246	1,091,463	1921	240,767	2,781,197

Imports of lime into Canada during 1912 were appraised at \$162,593 compared with \$53,745 in 1918. Exports of lime from Canada in 1912 were valued at \$35,097 as against \$70,930 in 1918.

Table 10 - LIME SOLD OR USED FOR CHEMICAL AND OTHER PURPOSES AND VALUE OF CONTRACTS IN CANADA, 1930 - 1939

Year	Lime sold or used for chemical purposes		Lime sold or used for building or other non-chemical purposes		Value of con- struction con- tracts 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	133,207	1,146,891	125,811,500
1935	260,885	1,775,657	144,534	1,150,134	160,305,000
1936	389,324(b)	2,670,266	79,077	665,704	162,588,000
1937	466,796(c)	3,112,147	82,557	712,770	224,056,700
1938	403,825(d)	2,746,927	83,097	795,725	187,277,900
1939	455,148(e)	3,059,306	97,061	944,208	187,178,500

(a) Compiled by McLean Building Reports Ltd.

(b) 349,940 short tons quicklime; 39,384 short tons hydrated lime.

(c) 421,867 tons quicklime and 44,929 short tons hydrated lime.

(d) 373,278 tons quicklime and 30,547 short tons hydrated lime.

(e) 424,287 tons quicklime and 30,861 tons hydrated lime.

Table 11 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1939, 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	...	35	2,965	2,557	308	5,865
	\$	...	475	21,455	22,984	4,446	49,360
Masons' lime	ton	2,450	7,312	6,297	929	...	16,988
	\$	21,940	68,254	50,265	6,832	...	147,291
Sand-lime brick	ton	...	1,555	5,910	...	...	7,465
	\$	...	7,218	37,900	...	...	45,118
Agriculture	ton	210	5	10	...	118	343
	\$	2,290	48	30	...	590	2,958
<u>CHEMICAL -</u>							
Smelters (non-ferrous)	ton	...	...	603	1,509	62	2,174
	\$	...	...	3,490	15,090	620	19,200
Iron and steel furnaces	ton	16,054	996	17,877	...	759	35,686
(a)	\$	139,439	7,717	127,177	...	7,587	281,920
Cyanide mills (gold mines)	ton	25	5,197	15,817	4,877	806	26,722
	\$	250	38,082	96,171	39,962	8,056	182,521
Pulp and paper mills..	ton	6,928	77,252	5,405	7,477	8,353	105,415
	\$	55,984	412,515	36,172	49,240	67,487	621,398
Glass works	ton	...	...	7,775	524	...	8,299
	\$	...	...	51,550	4,199	...	55,749
Sugar refineries	ton	200	33	7,783	8,075	608	16,699
	\$	1,700	316	69,694	66,990	6,076	144,776
Tanneries	ton	...	825	3,194	...	...	4,019
	\$	...	5,777	20,716	...	...	26,493
Fertilizer plants	ton	...	...	109	...	...	109
	\$	...	...	763	...	...	763
Insecticide plants ...	ton	...	...	1,034	...	87	1,121
	\$	...	...	7,221	...	869	8,090
Other chemical works..	ton	160	34,176	189,460	247	...	224,043
	\$	1,450	236,241	1,306,262	2,381	...	1,546,334
Uses unspecified	ton	...	798	3,630	1,543	6,934	12,905
	\$	...	9,786	33,756	16,790	69,305	129,637
Other consumers	ton	...	6,147	753	...	...	6,900
	\$	...	57,626	7,413	...	...	65,039
TOTAL QUICKLIME	ton	26,027	134,331	268,622	27,738	18,035	474,753
	\$	223,053	844,055	1,870,035	224,468	165,036	3,326,647
<u>HYDRATED LIME</u>							
Building trades -							
Finishing lime	ton	80	...	18,165	4,523	...	22,768
	\$	830	...	208,870	76,456	...	286,156
Masons' lime	ton	1,033	721	7,605	...	...	9,409
	\$	9,024	10,213	65,135	...	...	84,372
Sand-lime brick	ton	...	...	...	...	...	...
	\$

Table 11 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1939, SHOWING PURPOSES FOR WHICH USED (x) OR SOLD - (Concluded)

	Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	TOTAL CANADA
(1 ton = 2,000 pounds)						
<u>HYDRATED LIME (concluded) -</u>						
Agriculture	ton 1,664	766	2,629	...	2,841	7,900
	\$ 14,470	7,610	26,837	...	19,009	67,926
<u>CHEMICAL -</u>						
Smelters (non-ferrous)	ton ...	14,236	18	20	873	15,147
	\$...	42,878	173	200	5,841	49,092
Iron and steel furnaces	ton ...	...	73	...	...	73
	\$ ...	...	697	...	...	697
Cyanide mills	ton ...	1,090	383	20	...	1,493
	\$...	5,450	4,234	200	...	9,884
Pulp and paper mills	ton 4,300	5,868	101	...	...	10,269
	\$ 30,750	41,297	1,113	...	...	73,160
Glass works	ton ...	...	...	...	...	...
	\$
Sugar refineries	ton 20	126	88	...	25	259
	\$ 180	1,071	928	...	167	2,346
Tanneries	ton ...	485	413	...	...	898
	\$...	3,413	4,421	...	...	7,834
Fertilizer plants	ton ...	195	...	...	...	195
	\$...	1,170	...	...	...	1,170
Insecticide plants	ton 282	300	...	...	44	626
	\$ 3,102	2,400	...	...	294	5,796
Other chemical works	ton ...	...	1,671	230	...	1,901
	\$ ...	...	18,585	3,498	...	22,083
Uses unspecified	ton ...	468	2,224	...	1,033	3,725
	\$...	3,749	32,324	...	6,912	42,985
Other consumers	ton ...	2,526	267	...	...	2,793
	\$...	19,766	3,600	...	...	23,366
TOTAL HYDRATED LIME ..	ton 7,429	26,781	33,637	4,793	4,816	77,456
	\$ 53,356	139,017	366,917	80,354	32,223	676,867
GRAND TOTAL	ton 33,456	161,112	302,259	32,551	22,851	552,209
	\$ 281,409	983,072	2,236,952	304,822	197,259	4,003,514

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

(x) Not necessarily consumed in provinces where produced.

NOTE - Of the total quantity of 552,209 tons of lime produced, 263,957 tons were consumed by the producers themselves.

Table 12 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1938, 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	...	10	2,600	2,122	250	4,982
	\$	...	198	15,800	20,645	6,750	43,393
Masons' lime	ton	685	5,780	4,539	1,467	...	12,471
	\$	5,980	60,405	36,854	14,159	...	117,398
Sand-lime brick	ton	...	1,316	5,048	...	...	6,364
	\$	...	6,041	33,660	...	...	39,701
Agriculture	ton	200	42	...	...	40	282
	\$	2,160	303	...	...	160	2,623
<u>CHEMICAL -</u>							
Smelters (non-ferrous)	ton	...	...	1,052	1,991	...	3,043
	\$	...	...	5,672	19,905	...	25,577
Iron and steel furnaces	ton	13,306	495	12,298	4,136	357	30,592
(a)	\$	118,932	3,793	86,936	33,088	3,497	246,246
Cyanide mills (gold mines)	ton	50	5,218	28,077	730	941	35,016
	\$	500	39,517	179,761	8,285	9,218	237,281
Pulp and paper mills	ton	5,520	60,474	6,652	7,061	7,686	87,393
	\$	42,155	324,418	42,437	48,162	69,343	526,515
Glass works	ton	...	...	6,985	885	...	7,870
	\$	...	...	46,223	6,197	...	52,420
Sugar refineries	ton	250	34	5,577	7,734	15	13,610
	\$	2,200	298	53,883	64,192	147	120,720
Tanneries	ton	...	709	2,684	...	...	3,393
	\$	...	5,271	18,529	...	...	23,800
Fertilizer plants	ton	...	...	171	...	...	171
	\$	...	...	1,211	...	...	1,211
Insecticide plants	ton	...	...	864	...	96	960
	\$	...	...	6,084	...	940	7,024
Other chemical works	ton	...	30,946	160,154	130	...	191,230
	\$	...	225,072	1,119,744	1,719	...	1,346,535
Uses unspecified	ton	1,553	3,562	5,858	1,088	5,133	17,194
	\$	12,424	33,205	44,921	12,333	50,292	153,175
Other consumers	ton	...	1,120	70	...	...	1,190
	\$	...	8,960	512	...	...	9,472
TOTAL QUICKLIME	ton	21,564	109,706	242,629	27,344	14,518	415,761
	\$	184,351	707,481	1,692,227	228,685	140,347	2,953,091
<u>HYDRATED LIME</u>							
Building trades -							
Finishing lime	ton	...	...	10,732	4,335	...	15,067
	\$	...	...	120,306	73,553	...	193,859
Masons' lime	ton	148	1,066	4,032	...	...	5,246
	\$	1,480	13,753	32,526	...	...	47,759
Sand-lime brick	ton	...	...	...	...	...	...
	\$
Agriculture	ton	660	685	1,533	...	2,980	5,858
	\$	6,200	4,685	15,392	...	19,614	45,891

Table 12 - PRODUCTION OF LIME IN CANADA, BY PROVINCES, 1938, SHOWING PURPOSES FOR WHICH USED (x) OR SOLD (concluded)

	Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba and Alberta	British Columbia	TOTAL CANADA
(1 ton = 2,000 pounds)						
<u>HYDRATED LIME (concluded)</u>						
CHEMICAL -						
Smelters (non-ferrous) ton	...	255	85	...	971	1,311
\$	...	1,590	1,055	...	6,391	9,036
Iron and steel furnaces ton	...	13,551	23	...	...	13,574
\$	...	40,653	245	...	...	40,898
Cyanide mills ton	25	1,210	223	...	...	1,458
\$	250	5,330	2,594	...	...	8,774
Pulp and paper mills.. ton	4,150	6,237	...	...	...	10,543
\$	29,500	35,684	1,100	...	...	66,284
Glass works ton	...	...	...	...	...	...
\$
Sugar refineries ton	20	96	15	...	...	131
\$	175	796	157	...	...	1,128
Tanneries ton	...	392	248	...	...	640
\$	...	2,989	2,684	...	...	5,673
Fertilizer plants ton	...	150	34	...	...	184
\$	...	900	354	...	...	1,254
Insecticide plants ... ton	402	...	30	...	35	467
\$	3,216	...	290	...	231	3,737
Other chemical works.. ton	...	927	1,109	198	...	2,234
\$	...	7,230	12,125	3,459	...	22,814
Uses unspecified ton	629	1,706	9,613	...	1,151	13,099
\$	5,032	14,509	107,471	...	7,578	134,590
Other consumers ton	...	1,283	61	...	...	1,344
\$	...	7,131	733	...	...	7,864
TOTAL HYDRATED LIME .. ton	6,034	27,608	27,849	4,533	5,137	71,161
\$	45,853	135,850	297,032	77,012	33,814	589,561
GRAND TOTAL ton	27,598	137,314	270,478	31,877	19,655	486,922
\$	230,204	843,331	1,989,259	305,697	174,161	3,542,652

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

(x) Not necessarily consumed in provinces where produced.

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LIME AND VARIOUS LIME COMPOUNDS,
1938 and 1939

	1938		1939		
	Quantity	Value	Quantity	Value	
		\$		\$	
IMPORTS -					
Lime	cwt.	133,050(a)	36,248	121,170(a)	33,342
Calcium chloride in packages of not less than 25 pounds	lb.	383,900	4,121	239,200	2,866
Calcium chloride in packages of less than 25 pounds	lb.	1,263	185	229	69
Calcium chloride not in solution for road treating purposes	lb.	15,283,100	148,581	11,181,600	104,578
Calcium arsenate	lb.	37,068	3,507	389,557	23,643
Chloride of lime and hypochlorite of lime in packages not less than 25 pounds	lb.	345,100	22,566	400,800	26,550
Chloride of lime and hypochlorite of lime in packages of less than 25 pounds	lb.	39,280	4,726	32,986	5,127
EXPORTS -					
Lime	cwt.	127,615	51,346	184,184	75,172
Acetate of lime	cwt.	41,208	44,910	40,972	58,391

(a) All from the United States.

OPERATORS IN CANADIAN LIME INDUSTRY, 1939

<u>Name of Operator</u>	<u>Head Office Address</u>	<u>Plant Location</u>
NOVA SCOTIA -		
Dominion Steel & Coal Corp. Ltd. (b)	Sydney	Sydney
Eastern Lime Co. Ltd. (a) (b)	Windsor	Windsor
NEW BRUNSWICK -		
Bathurst Power and Paper Co. Ltd. (a)	Bathurst	Bathurst
Purdy & Green, Ltd. (a)	204 Metcalf St., Saint John	Saint John
Randolph & Baker, Ltd. (a) (b) (c)	Randolph	Randolph
Snowflake Lime Ltd. (a) (b)	3 Pokiok Road, Saint John	Saint John
St. John Lime Co. (a) (b)	Brookville	Brookville
QUEBEC -		
Arnaud & Beaudry	Joliette	Joliette
Boivin, Arthur	Pont Rouge	Pont Rouge
Canada Lime & Stone, Ltd. (a)	St. Marc des Carrieres	St. Marc des Carrieres
Carriere St. Maurice Ltee	307 Alexandre, Trois Rivières	St. Louis de France
Carswell, Robt. B.	Bryson	Bryson
Cote, Xavier (a)	Metabetchouan	Metabetchouan
Desfond, G. (a)	St. Cuthbert	St. Cuthbert
Dontigny, Raymond	Ste. Thecle	Ste. Thecle
Dominion Lime Ltd. (a)	Lime Ridge	Lime Ridge
Filion, Narcisse	St. Joachim	St. Joachim

OPERATORS IN CANADIAN LIME INDUSTRY, 1939
(Continued)

<u>Name of Operator</u>	<u>Head Office Address</u>	<u>Plant Location</u>
<u>QUEBEC (Concluded) -</u>		
Gagne, Octave	St. Ulric	St. Ulric
Heon and Heon (a)	St. Louis de France	Ste. Marguerite Tp.
Lalumiere, Joseph	St. Dominique de Bagot	St. Dominique de Bagot
Machabee, Lucien	Ste. Anne des Plaines	Ste. Anne des Plaines
Limoges, Henri (a)	552 Pouport St., Montreal	St. Michel
Marcotte, J. A. Dr. (c)	4403 St. Hubert, Montreal	St. Marc des Carrieres
Mercure, C. (a)	9 rue St. Denis, St. Hyacinthe	St. Dominique de Bagot
Shawinigan Chemicals Ltd. (a)	107 Craig St. West, Montreal	Shawinigan Falls
Standard Lime Co. Ltd. (a)	Joliette	St. Paul de Joliette, St. Marc des Carrieres
Trottier, David	St. Marc des Carrieres	St. Marc des Carrieres
Villeneuve, R. (a) (b)	St. Jerome	St. Jerome
<u>ONTARIO -</u>		
Bell, Harry	R. R. 4, Chesley	Grey County
Biederman, Albert J. (a)	R. R. 1, Golden Lake	Golden Lake
Brown's Lime Works (b)	Owen Sound	Owen Sound
Brunner, Mond Canada, Limited (a)	Canadian Bank of Commerce Bldg., Toronto	Amherstberg Dist.
Cameron, W. M. (a)	Box 65, Carleton Place	Carleton Place
Canada and Dominion Sugar Co. Ltd. (a)	Chatham	Chatham, Wallaceburg
Canada Lime Co. (a)	Box 51, Coboconk	Coboconk
Canadian Gypsum Co. Ltd. (b)	170 Bloor St. W., Toronto	Guelph
Chalmers Lime Works (b)	Owen Sound	Owen Sound
Dominion Rock Products Ltd. (a)	941 Dominion Square Bldg., Montreal, P.Q.	Eganville
Electro Metallurgical Company of Canada, Limited (a)	Canada Life Bldg., Toronto	Welland
Federal Lime Ltd. (a)	Eganville	Grattan Tp.
Gypsum, Lime & Alabastine, Canada, Ltd. (a) (b)	Paris	Beachville, Hespeler Milton
Hall, W. S. (a)	701 National Bldg., Toronto	Red Lake Dist.
Innerkip Lime & Stone Co. Ltd. (a)	Beachville	Beachville
Jamieson Lime Co. (a)	Renfrew	Renfrew County
North American Cyanamid Ltd. (a)	Royal Bank Bldg., Toronto	Niagara Falls
Rockwood Lime Co. (b)	Box 46, Rockwood	Rockwood
Shane Lime and Charcoal Co. Ltd. (a)	Eganville	Renfrew County

OPERATORS IN CANADIAN LIME INDUSTRY, 1939
(Concluded)

<u>Name of Operator</u>	<u>Head Office Address</u>	<u>Plant Location</u>
<u>MANITOBA</u> -		
Gillis Quarries Ltd. (a) (b)	Richard and Spruce Sts., Winnipeg	Garson, Stonewall
Gypsum, Lime and Alabastine, Canada, Ltd. (a) (b)	Paris, Ont.	Winnipeg
Winnipeg Supply & Fuel Co. Ltd. (a) (b)	812 Boyd Bldg., Winnipeg	Spearhill, Stone- wall
<u>ALBERTA</u> -		
Canadian Sugar Factories Ltd. (a)	Raymond	Raymond
Loder's Lime Co. Ltd. (a)	Kananaskis	Kananaskis
Summit Lime Works (a)	Box 273, Lethbridge	Lethbridge Dist.
<u>BRITISH COLUMBIA</u> -		
Pacific Lime Co. Ltd. (a)	744 West Hastings St., Vancouver	Texada Island
Pacific Mills Ltd. (a)	Campbell Ave., Vancouver	Ocean Falls
Victoria Lime Co. (a)	R. R. 1, Victoria	Parsons Bridge

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- (a) Use calcium or high calcium limestone.
 - (b) Use dolomite or dolomitic limestone.
 - (c) No production reported in 1939.

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