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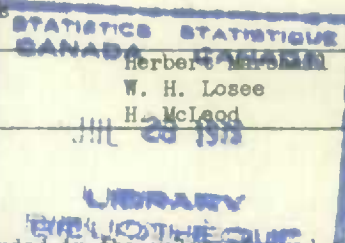
Canada

Department of Trade and Commerce  
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THE CEMENT MANUFACTURING INDUSTRY, 1947

In the cement industry in Canada in 1947 an all-time high was recorded in the value of production, while the quantity of shipments was second highest in the history of the industry, being exceeded only in 1929. During the year a total of 11,936,245 barrels worth \$21,968,909 were sold or used by the producers, an increase of 3.2 per cent in quantity and 9.2 per cent in value over the 1946 shipments of 11,560,483 barrels valued at \$20,122,503. Shipments, by provinces, in 1947 were: Quebec, 5,453,407 barrels; Ontario, 3,529,438 barrels; Manitoba, 1,352,109 barrels; Alberta, 757,551 barrels, and British Columbia, 863,740 barrels.

The same 8 plants were in operation during 1947 as in the previous year. The Canada Cement Company Limited had works at Hull and Montreal East in Quebec, at Port Colborne and Belleville in Ontario, at Fort Whyte in Manitoba, and at Exshaw in Alberta; the St. Mary's Cement Co. Limited operated a mill at St. Mary's, Ontario, and the British Columbia Cement Co. Limited had a plant at Bamberton, British Columbia. These plants have 19 kilns with a rated capacity of 38,000 barrels per day; all kilns were operated during 1947.

Raw materials used in 1947 included 3,057,675 tons of limestone, 43,154 tons of shale, 81,946 tons of gypsum, 36,223 tons of silica sand, 279,635 tons of clay and 5,145 tons of iron oxides.

An average of 1,650 persons were employed in this industry in 1947 and these employees received \$3,679,446 in wages and salaries. Raw materials, process supplies and containers cost \$5,006,178, fuel and electricity \$5,777,917, and the gross value of shipments, f.o.b. works including containers, was \$23,582,011.

Imports of Portland cement into Canada amounted to 1,248,625 barrels valued at \$3,843,652 in 1947, an increase of 256 per cent over the quantity of 350,057 barrels imported in the previous year. Exports amounted to 88,030 barrels worth \$198,354. The apparent consumption of cement in Canada was 15,096,840 barrels.

Table 1 - PRINCIPAL STATISTICS FOR THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1938-1947

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, materials and containers (*)	Gross value of products sold during year including containers (f.o.b. works)
			\$	\$	\$	\$
1938 .....	8	1,034	1,306,331	1,764,427	1,369,173	9,081,366
1939 .....	8	1,001	1,297,542	1,705,981	1,372,238	9,351,391
1940 .....	8	1,052	1,515,766	2,347,730	1,943,491	13,006,643
1941 .....	8	1,235	1,860,931	2,897,383	2,146,825	14,323,372
1942 .....	8	1,241	2,059,337	3,127,264	2,287,223	15,628,403
1943 .....	8	1,209	2,154,218	3,089,380	2,467,709	12,709,852
1944 .....	8	1,207	2,254,775	3,197,955	2,566,432	12,646,741
1945 .....	8	1,317	2,398,117	3,210,929	2,794,676	15,422,031
1946 .....	8	1,524	2,929,020	4,487,496	4,306,467	21,724,021
1947 .....	8	1,650	3,679,446	5,777,917	4,354,657	23,582,011

(\*) Includes both process supplies and containers for 1938 to 1942 inclusive; and process supplies, containers and raw materials for later years.

Note: This report was prepared by A. R. Deir, Mining Statistician.

Table 2 - PRODUCERS' SHIPMENTS OF CEMENT IN CANADA, BY PROVINCES, 1945-1947

Province	1945		1946		1947	
	Barrels	Value (*)	Barrels	Value (*)	Barrels	Value (*)
Quebec .....	3,872,373	5,985,077	5,046,166	7,910,548	5,453,407	9,351,477
Ontario .....	2,460,996	3,805,131	3,677,695	6,025,503	3,529,438	6,219,993
Manitoba .....	959,398	2,027,629	1,254,946	2,811,264	1,352,109	3,009,157
Alberta .....	620,337	1,246,346	809,721	1,635,222	737,551	1,491,510
British Columbia	558,575	1,182,297	771,955	1,739,966	863,740	1,896,772
CANADA .....	8,471,679	14,246,480	11,560,483	20,122,503	11,936,245	21,968,909

(\*) Does not include the value of containers.

Table 3 - PRODUCTION, IMPORTS AND EXPORTS OF PORTLAND CEMENT, 1946 and 1947

	1946		1947	
	Barrels (*)	Value	Barrels (*)	Value
Output .....	10,675,472	...	12,202,696	...
Shipments (sold or used by producers)	11,560,483	20,122,503	11,936,245	21,968,909
Stocks on hand December 31 .....	469,521	...	735,972	...
Imports -				
Portland cement and hydraulic or water lime .....	350,057	1,098,532	1,248,625	3,843,652
Portland cement clinker (white) ...	14,296	30,147	28,462	64,054
Manufactures, n.o.p. ....	...	51,633	...	46,458
Exports -				
Portland cement .....	114,370	236,276	88,030	198,354
APPARENT CONSUMPTION .....	11,796,170(x)	...	13,096,840(x)	...

(\*) 1 barrel = 350 pounds.

(x) Exclusive of clinker imported.

Table 4 - PRODUCERS' SHIPMENTS AND APPARENT CONSUMPTION OF CEMENT IN CANADA, 1938-1947

Year	Shipments (Sold or Used)		Apparent Consumption (*) in Canada
	Barrels	\$	Barrels
1938 .....	5,519,102	8,241,350	5,478,180
1939 .....	5,731,264	8,511,211	5,591,328
1940 .....	7,559,648	11,775,345	7,272,886
1941 .....	8,368,711	13,063,588	8,069,824
1942 .....	9,126,041	14,365,237	8,878,481
1943 .....	7,302,289	11,599,033	7,148,265
1944 .....	7,190,851	11,621,372	6,994,406
1945 .....	8,471,679	14,246,480	8,222,388
1946 .....	11,560,483	20,122,503	11,796,170
1947 .....	11,936,245	21,968,909	13,096,840

(\*) Shipments plus imports less exports.

Table 5 - SPECIFIED MATERIALS USED IN CANADIAN CEMENT PLANTS, 1938-1947

Year	Shale	Limestone	Gypsum	Silica sand	Clay	Iron oxides (*)
			(Tons)			
1938 .....	13,821	1,344,868	51,975	9,465	143,421	22
1939 .....	27,241	1,379,858	31,492	7,942	105,982	16
1940 .....	18,347	1,765,944	38,903	15,298	144,152	170
1941 .....	26,837	2,086,781	49,031	16,110	185,954	614
1942 .....	30,498	2,155,750	49,816	20,711	188,202	2,094
1943 .....	75,460(a)	1,918,742	47,034	19,473	165,345	1,502
1944 .....	74,303	1,865,597	42,672	23,942	173,728	3,924
1945 .....	70,600	1,849,258	45,883	29,424	161,980	3,197
1946 (b) .....	99,355	2,525,653	65,431	31,222	227,645	3,862
1947 (b) .....	43,154	3,057,675	81,946	36,223	279,635	5,145

(\*) Produced from iron pyrites by the chemical industry. (a) Prior to 1943 shale consumed in British Columbia plants was included with limestone. (b) Value of these materials purchased in 1946 totalled \$505,994 and 1947 totalled \$651,521.

(19 Apr. 48)



Table 6 - COAL USED IN PORTLAND CEMENT PLANTS IN CANADA, 1938-1947

Year	Canadian		Foreign	
	Tons	\$	Tons	\$
1938 .....	127,812	656,187	89,172	499,812
1939 .....	190,538	1,010,071	16,141	82,536
1940 .....	185,325	1,108,287	85,885	513,224
1941 .....	125,740	772,829	203,905	1,331,448
1942 .....	156,544	1,003,490	192,105	1,305,583
1943 .....	98,135	595,385	225,741	1,664,546
1944 .....	108,292	731,706	219,802	1,634,690
1945 .....	121,299	823,988	206,995	1,566,420
1946 .....	172,081	1,237,718	289,046	2,233,402
1947 .....	188,457	1,485,039	371,849	3,130,050

Table 7 - NUMBER AND CAPACITY OF KILNS IN PORTLAND CEMENT PLANTS IN CANADA, 1938-1947

Year	Total Kilns		Kilns in Use During the Year	
	Number	Total capacity Barrels per 24 hours	Number	Total capacity Barrels per 24 hours
1938 .....	21	35,200	10	23,100
1939 .....	21	35,000	11	23,700
1940 .....	21	35,000	13	27,950
1941 .....	20	33,050	16	30,350
1942 .....	19	34,650	17	32,450
1943 .....	19	33,750	15	30,296
1944 .....	19	33,250	15	30,150
1945 .....	19	33,250	15	30,150
1946 .....	18	33,550	16	31,640
1947 .....	19	38,000	19	38,000

Table 8 - FUEL AND ELECTRICITY USED IN THE CEMENT MANUFACTURING INDUSTRY, 1946 and 1947

	Unit of measure	1946		1947	
		Quantity	Value \$	Quantity	Value \$
Bituminous coal--Canadian .....	short ton	172,081	1,237,718	188,457	1,485,039
Imported .....	short ton	289,046	2,233,402	371,849	3,130,050
Gasoline .....	Imp.gal.	172,742	45,603	210,630	56,024
Kerosene .....	Imp.gal.	8,391	1,587	13,490	2,640
Fuel oil and diesel oil .....	Imp.gal.	168,392	19,392	325,534	43,628
Wood (cords of 128 cu.ft.) .....	cord	52	351	39	273
Electricity purchased (including service charges) .....	K.W.H.	193,679,422	949,443	220,989,496	1,060,263
TOTAL .....	...	...	4,487,496	...	5,777,917
Electricity generated for own use	K.W.H.	347,383	...	724,861	...

Table 9 - POWER EQUIPMENT IN CEMENT PLANTS IN CANADA, 1947

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power (*)	Number of units	Total horse power (*)
Steam engines .....	4	400	1	50
Diesel engines .....	15	2,839	1	20
Gasoline, gas and oil engines, other than Diesel engines .....	38	1,076	7	447
Electric motors -				
(a) Operated by purchased power ....	1,542	80,066	370	16,320
Total .....	1,599	84,381	379	16,837
(b) Operated by power generated by the establishment .....	24	1,008	8	302
Stationary boilers .....	1	15	1	40
Motor-generator sets .....	29	2,333	5	265

(\*) According to manufacturers' rating.

Table 10 - SELLING PRICE PER BARREL OF CANADIAN CEMENT, f.o.b. WORKS, 1938-1947

Year	High	Low	Year	High	Low
	\$	\$		\$	\$
1938 .....	2.55	1.25	1943 .....	2.70	1.25
1939 .....	2.55	1.25	1944 .....	2.70	1.25
1940 .....	2.55	1.52	1945 .....	2.70	1.58
1941 .....	2.70	1.25	1946 .....	2.85	1.50
1942 .....	2.70	1.25	1947 .....	5.10	1.26

Table 11 - EMPLOYEES, SALARIES AND WAGES IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1941-1947

TABLE 11 - EMPLOYMENT, SALARIES AND WAGES IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1941-1947								
Year	Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
						\$	\$	\$
1941 .....	79	8	1,148	...	1,235	190,771	1,670,160	1,860,931
1942 .....	79	10	1,152	...	1,241	200,779	1,858,558	2,059,337
1943 .....	75	16	1,091	27	1,209	215,157	1,939,081	2,154,218
1944 .....	76	16	1,066	49	1,207	229,490	2,025,285	2,254,775
1945 .....	87	15	1,159	56	1,517	248,565	2,149,752	2,398,117
	<u>Administration</u>		<u>Workmen</u>		<u>Total</u>	<u>Administra- tors' earnings</u>	<u>Workmen's earnings</u>	<u>Total earnings</u>
1946 .....	97	8	1,400	19	1,524	246,992	2,682,028	2,929,020
1947 .....	107	9	1,518	16	1,650	328,748	3,350,698	3,679,446

Table 12 - NUMBER OF WORKMEN IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, BY MONTHS, 1946 and 1947

Month	1946			1947		
	Quarry	Mill		Quarry	Mill	
	Male	Male	Female	Male	Male	Female
January .....	239	1,157	44	194	1,256	17
February .....	159	1,152	25	192	1,249	17
March .....	160	1,144	23	199	1,247	17
April .....	178	1,170	16	221	1,238	17
May .....	171	1,234	12	214	1,262	17
June .....	164	1,272	11	225	1,280	16
July .....	179	1,271	13	224	1,346	17
August .....	181	1,253	15	220	1,369	17
September .....	175	1,271	16	228	1,508	15
October .....	175	1,274	17	237	1,357	15
November .....	183	1,249	17	251	1,349	15
December .....	164	1,258	17	225	1,361	15
AVERAGE .....	176	1,224	19	218	1,300	16

## DIRECTORY OF PORTLAND CEMENT PRODUCERS IN CANADA, 1947

Name of Firm	Head Office Address	Location of Plant
<u>Quebec -</u>		
Canada Cement Company Limited	Box 290, Station B, Montreal	Hull Montreal East
<u>Ontario -</u>		
Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec	Belleville Port Colborne
St. Mary's Cement Co. Limited	357 Bay St., Toronto	St. Mary's
<u>Manitoba -</u>		
Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec	Fort White
<u>Alberta -</u>		
Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec	Exshaw
<u>British Columbia -</u>		
British Columbia Cement Co. Limited	500 Fort St., Victoria	Bamberton

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