Published by Authority of the Rt. Hon. C. D. Howe, M.P.
Minister of Trade and Commerce

A4-21-4-49
Price - 25 cents

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THE CEMENT MANUFACTURING INDUSTRY, 1948

Production of cement in Canada during 1948 exceeded all previous annual records both in quantity and total value of products. During the year a total of 14,127,123 barrels valued at $28,264,987 were sold or used by the producers, an increase of 18.3 per cent in quantity and 31.9 per cent in value over the 1947 shipments of 11,936,245 barrels worth $21,968,909. Shipments by provinces were: Quebec, 6,517,031 barrels; Ontario, 3,660,756 barrels; Manitoba, 1,697,042 barrels; Alberta, 1,224,313 barrels and British Columbia, 1,027,981 barrels.

The same 8 plants were in operation during 1948 as in the previous year. The Canada Cement Company Limited had works at Hull and Montreal East in Quebec, at Port Colborne and Bellevills in Ontario, at Fort Whyts 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. The plant at Exshaw, Alberta, was expanded to double its previous capacity. Alterations to permit increased production at Bellsville, Ontario, are expected to be completed in May, 1949. The industry has 20 kilns with a total rated capacity of 41,000 tons per 24 hours.

Raw materials used in 1948 included 3,449,947 tons of limestone, 119,821 tons of gypsum, 277,178 tons of clay, 9,182 tons of iron oxide, 47,749 tons of silica sand and 78,377 tons of shale.

The cement industry employed an average of 1,723 persons and paid $4,356,086 in wages and salaries. Raw materials, process supplies and containers cost $5,699,042, and fuel and electricity $7,158,156. The gross value of shipments f.o.b. works, including containers, was $30,561,717.

Imports of Portland cement into Canada amounted to 1,120,671 barrels valued at $3,995,173 in 1948, a decrease of 10.2 per cent in quantity from the 1,248,625 barrels in the previous year. Exports amounted to 72,999 barrels valued at $200,575. The apparent consumption of cement in Canada was 15,174,795 barrels in 1948.

Table 1 - PRINCIPAL STATISTICS FOR THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1939-1948

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, materials and containers (x)	Gross value of products sold during year including containers (f.o.b. works)
			$	$	$	$
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
1948	8	1,723	4,356,086	7,158,156	5,699,042	30,561,717

(x) Includes both process supplies and containers for 1939 to 1942 inclusive; and process supplies, containers and raw materials for later years.

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

(6 May 49)

Table 2 - PRODUCERS' SHIPMENTS OF CEMENT IN CANADA, BY PROVINCES, 1946-1948

Province	1946 Barrels	1946 Value(*) $	1947 Barrels	1947 Value(*) $	1948 Barrels	1948 Value(*) $
Quebec	5,046,166	7,910,548	5,453,407	9,351,477	6,517,031	12,306,243
Ontario	3,677,695	6,025,503	3,529,438	6,219,993	3,660,756	7,076,317
Manitoba	1,254,946	2,811,264	1,352,109	3,009,157	1,697,042	3,919,145
Alberta	809,721	1,635,222	737,551	1,491.510	1,224,313	2,521,978
British Columbia	771,955	1,739,966	863,740	1,896,772	1,027,981	2,441,304
CANADA	11,560,483	20,122,503	11,936,245	21,968,909	14,127,123	28,264,987

(*) Does not include the value of containers.

Table 3 - PRODUCTION, IMPORTS AND EXPORTS OF PORTLAND CEMENT, 1947 and 1948

	1947 Barrels (*)	1947 Value $	1948 Barrels (*)	1948 Value $
Output	12,202,696	...	14,003,656	...
Shipments (sold or used by producers)	11,936,245	21,968,909	14,127,123	28,264,987
Stocks on hand December 31	735,972	...	612,505	...
Imports -				
Portland cement and hydraulic or water lime	1,248,625	3,843,652	1,120,671	3,995,173
Portland cement clinker (white) ...	28,462	64,054	33,998	92,195
Manufactures, n.o.p.	...	46,458	...	69,509
Exports -				
Portland cement	88,030	198,354	72,999	200,575
APPARENT CONSUMPTION	13,096,840(x)	...	15,174,795(x)	...

(*) 1 barrel - 350 pounds.
(x) Exclusive of clinker imported.

Table 4 - PRODUCERS' SHIPMENTS AND APPARENT CONSUMPTION OF CEMENT IN CANADA, 1939-1948

Year	Shipments (Sold or Used) Barrels	Shipments (Sold or Used) $	Apparent Consumption (*) in Canada Barrels
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
1948	14,127,123	28,264,987	15,180,509

(*) Shipments plus imports less exports.

Table 5 - PRODUCERS' SHIPMENTS OF CEMENT IN CANADA, BY MONTHS, 1947-1948

Month	1947 (Barrels)	1948 (Barrels)	Month	1947 (Barrels)	1948 (Barrels)
January	403,300	500,317	July	1,249,686	1,420,151
February	421,647	647,179	August	1,173,570	1,434,896
March	809,841	1,072,489	September	1,235,905	1,481,347
April	1,060,391	1,268,018	October	1,309,748	1,377,554
May	1,291,869	1,413,959	November	1,071,626	1,311,432
June	1,276,799	1,455,273	December	631,863	744,508
			TOTAL	11,936,245	14,127,123

Table 6 - SPECIFIED MATERIALS USED IN CANADIAN CEMENT PLANTS, 1939-1948

Year	Shale	Limestone	Gypsum	Silica sand	Clay	Iron oxides (x)
			(Tons)			
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	227,545	3,862
1947 (b)	43,154	3,057,675	81,946	36,223	279,635	5,145
1948 (b)	78,377	3,449,947	119,821	47,749	277,178	9,182

(x) 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 totalled $505,994 in 1946; $651,521 in 1947, and $990,577 in 1948.

Table 7 - COAL USED IN PORTLAND CEMENT PLANTS IN CANADA, 1939-1948

Year	Canadian		Foreign	
	Tons	$	Tons	$
1939	190,538	1,010,071	16,141	82,336
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	1,305,383
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
1948	328,422	2,965,986	300,191	2,842,549

Table 8 - NUMBER AND CAPACITY OF KILNS IN PORTLAND CEMENT PLANTS IN CANADA, 1939-1948

Year	Total Kilns		Kilns in Use During the Year	
	Number	Total capacity Barrels per 24 hours	Number	Total capacity Barrels per 24 hours
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
1948	20	41,000	19	40,300

Table 9 - FUEL AND ELECTRICITY USED IN THE CEMENT MANUFACTURING INDUSTRY, 1947 and 1948

	Unit of measure	1 9 4 7		1 9 4 8	
		Quantity	Value	Quantity	Value
			$		$
Bituminous coal--Canadian	short ton	188,457	1,485,039	328,422	2,965,986
Imported	short ton	371,849	3,130,050	300,191	2,842,549
Gasoline	Imp.gal.	210,630	56,024	189,902	56,938
Kerosene	Imp.gal.	13,490	2,640	10,479	2,504
Fuel oil and diesel oil	Imp.gal.	325,534	43,628	483,477	90,831
Wood (cords of 128 cu.ft.)	cord	39	273	23	115
Electricity purchased (including service charges)	K.W.H.	220,989,496	1,060,263	251,820,532	1,199,233
TOTAL		...	5,777,917	...	7,158,156
Electricity generated for own use	K.W.H.	724,861	...	821,323	...

Table 10 - POWER EQUIPMENT IN CEMENT PLANTS IN CANADA, 1948

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power (*)	Number of units	Total horse power (*)
Steam engines	4	400	...	...
Diesel engines	16	3,645	1	20
Gasoline, gas and oil engines, other than Diesel engines	44	1,168	7	447
Electric motors -				
(a) Operated by purchased power	1,644	82,325	404	18,016
Total	1,708	87,538	412	18,483
(b) Operated by power generated by the establishment	40	1,312	8	345
Stationary boilers	1	15	...	...
Motor-generator sets	29	3,008	6	269

(*) According to manufacturers' rating.

Table 11 - SELLING PRICE PER BARREL OF CANADIAN CEMENT, f.o.b. WORKS, 1939-1948

Year	High	Low	Year	High	Low
	$	$		$	$
1939	2.35	1.25	1944	2.70	1.25
1940	2.35	1.32	1945	2.70	1.38
1941	2.70	1.25	1946	2.85	1.30
1942	2.70	1.25	1947	3.10	1.26
1943	2.70	1.25	1948	3.30	1.30

Table 12 - EMPLOYEES, SALARIES AND WAGES IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1942-1948

Year	Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
						$	$	$
1942	79	10	1,152	...	1,241	200,779	1,858,558	2,059,337
1943	75	16	1,091	27	1,209	215,137	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	1,317	248,365	2,149,752	2,398,117
	Administration		Workmen		Total	Administrators' earnings	Workmen's earnings	Total earnings
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
1948	114	9	1,589	11	1,723	346,453	4,009,633	4,356,086

Table 13 - NUMBER OF WORKMEN IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, BY MONTHS, 1947 and 1948

Month	1947			1948		
	Quarry	Mill		Quarry	Mill	
	Male	Male	Female	Male	Male	Female
January	194	1,256	17	217	1,330	11
February	192	1,249	17	224	1,350	10
March	199	1,247	17	221	1,373	10
April	221	1,238	17	220	1,363	10
May	214	1,262	17	217	1,400	11
June	225	1,280	16	213	1,396	11
July	224	1,346	17	202	1,404	12
August	220	1,369	17	213	1,401	11
September	228	1,308	15	207	1,398	11
October	237	1,357	15	203	1,387	11
November	231	1,349	15	190	1,386	11
December	225	1,361	15	188	1,362	10
AVERAGE	218	1,300	16	211	1,378	11

DIRECTORY OF PORTLAND CEMENT PRODUCERS IN CANADA, 1948

Name of Firm	Head Office Address	Location of Plant
Quebec -		
Canada Cement Company Limited	Box 290, Station B, Montreal	Hull Montreal East
Ontario -		
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
Manitoba -		
Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec	Fort White
Alberta -		
Canada Cement Company Limited	Box 290, Station B, Montréal, Quebec	Exshaw
British Columbia -		
British Columbia Cement Co. Limited	500 Fort St., Victoria	Bamberton