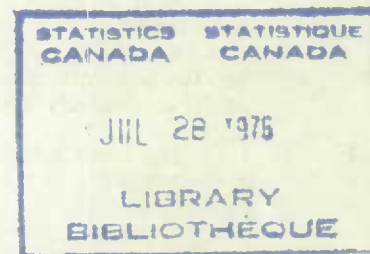


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DOMINION BUREAU OF STATISTICS - DEPARTMENT OF TRADE AND COMMERCE
CANADA

THE CEMENT MANUFACTURING INDUSTRY

1949



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NOTICE

It has been the practice of the Bureau of Statistics, since 1920, to issue an annual printed report on the Mineral Production of Canada. This report was comprised to a large extent of the data which had already been issued in bulletin form as statistics for each industry were completed. The final report was necessarily late in being issued, and its main use was for library purposes and for historical research. It also had the advantage of having complete statistics of the Canadian Mining Industry for a year in one volume.

Such a procedure necessitated the preparation of new manuscript, duplication of proof-reading, and extra costs in type-setting and printing. In order to avoid this extra cost, a system has been devised whereby libraries and other similar organizations may file the separate reports in a ring binder as issued, and if they so desire, may have them bound in a volume when the series for the year is complete.

The reports have been paged in such a manner that when bound they will correspond to the chapters of the annual printed report hitherto issued, but which will now be discontinued.

The following reports will constitute the complete volume on Mineral Statistics of Canada:

- A General Review of the Mining Industry
- B The Gold Mining Industry
- C The Silver-Lead-Zinc Mining Industry
- D The Nickel-Copper Mining, Smelting and Refining Industry
- E The Miscellaneous Metal Mining Industry
- F The Non-ferrous Smelting and Refining Industry
- G The Coal Mining Industry
- H The Natural Gas and Crude Petroleum Industry
- I The Asbestos Mining Industry
- J The Feldspar and Quartz Mining Industry
- K The Gypsum Industry
- L The Peat Industry
- M The Salt Industry
- N The Talc and Soapstone Industry
- O The Miscellaneous Industrial or Non-metallic Minerals Mining Industry
- P The Cement Manufacturing Industry
- Q The Clay and Clay Products Industry
- R The Lime Industry
- S The Sand and Gravel Industry
- T The Stone Industry
- U Contract Diamond Drilling in the Mining Industry
- V Appendix - Explanatory notes on the method of computing the quantities and values of the Mineral Production of Canada

THE CEMENT MANUFACTURING INDUSTRY

1949

Production and shipments of Portland cement by Canadian plants were the greatest on record in 1949, amounting to 15,916,564 barrels valued at \$32,901,936 compared with 14,127,123 barrels worth \$28,264,987 in 1948.

Quebec was the leading province with 6,901,192 barrels, Ontario was in second place with 4,599,322 barrels, and Alberta was in third position with 1,659,503 barrels. Output in Manitoba and in British Columbia was 1,502,308 and 1,254,239 barrels respectively.

The same 8 plants were in operation during 1949 as in the previous year. They had 21 kilns with a total rated capacity of 47,000 barrels. Alterations to the plant at Belleville, Ontario, permitted an increase in production early in the year.

Raw materials used in 1949 included 3,985,407 tons of limestone, 137,785 tons of gypsum, 325,037 tons of clay,

11,885 tons of iron oxide, 48,124 tons of silica sand, and 76,200 tons of shale.

The cement industry employed an average of 1,721 persons in 1949 and paid \$4,754,611 in wages and salaries. Purchased materials, process supplies and containers cost \$5,949,640; fuels cost \$6,675,415, and purchased electricity amounting to 284,207,578 k.w.h. cost \$1,362,775. The industry generated 972,610 k.w.h. of electricity for its own use. The gross value of shipments f.o.b. works, including containers, was \$35,065,152.

Imports of Portland cement into Canada amounted to 2,284,000 barrels valued at \$6,877,939 in 1949, an increase of 10.4 per cent in quantity from the 1,120,671 barrels in the previous year. Exports totalled 19,212 barrels worth \$51,733. The apparent consumption of cement in Canada was 18,181,352 barrels in 1949.

TABLE 1. — Principal statistics for the Cement Manufacturing Industry, 1940-1949

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, materials and containers ¹	Gross value of products sold during year including containers (f.o.b. works)
			\$	\$	\$	\$
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
1949.....	8	1,721	4,754,611	8,038,190	5,949,640	35,065,152

1. Includes both process supplies and containers for 1940 to 1942 inclusive; and process supplies, containers and raw materials for later years.

TABLE 2. — Producers' shipments of cement, by provinces, 1947-1949

Province	1947		1948		1949	
	Barrels	Value ¹	Barrels	Value ¹	Barrels	Value ¹
		\$		\$		\$
Quebec.....	5,453,407	9,351,477	6,517,031	12,306,243	6,901,192	13,722,635
Ontario.....	3,529,438	6,219,993	3,660,756	7,076,317	4,599,322	9,155,613
Manitoba.....	1,352,109	3,009,157	1,697,042	3,919,145	1,502,308	3,538,122
Alberta.....	737,551	1,491,510	1,224,313	2,521,978	1,659,503	3,456,141
British Columbia.....	863,740	1,896,772	1,027,981	2,441,304	1,254,239	3,029,425
Canada.....	11,936,245	21,968,909	14,127,123	28,264,987	15,916,564	32,901,936

1. Does not include the value of containers. Includes amounts used by the producers.

MINERAL PRODUCTION OF CANADA

TABLE 3. — Production, imports and exports of Portland cement, 1948 and 1949

	1948		1949	
	Barrels ¹	Value \$	Barrels ¹	Value \$
Output	14,003,656	—	16,061,369	—
Shipments (sold or used by producers)	14,127,123	28,264,987	15,916,564	32,901,936
Stocks on hand December 31	612,505	—	757,310	—
Imports:				
Portland cement and hydraulic or water lime	1,120,671	3,995,173	2,284,000	6,877,939
Portland cement clinker (white)	33,998	92,195	44,044	131,927
Manufactures, n.o.p.	—	69,509	—	69,063
Exports:				
Portland cement	72,999	200,575	19,212	51,733
Apparent consumption	15,174,795 ²	—	18,181,352 ²	—

1. 1 barrel — 350 pounds.

2. Exclusive of clinker imported.

TABLE 4. — Producers' shipments and apparent consumption of cement, 1940-1949

Year	Shipments (sold or used)		Apparent Consumption ¹
	Barrels	\$	Barrels
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	15,174,795
1949	15,916,564	32,901,936	18,181,352

1. Shipments plus imports less exports.

TABLE 5. — Producers' shipments of cement by months, 1948 and 1949

Month	1948	1949	Month	1948	1949
	Barrels			Barrels	
January	500,317	622,621	July	1,420,151	1,521,147
February	647,179	910,064	August	1,434,896	1,652,943
March	1,072,489	1,403,336	September	1,481,347	1,559,239
April	1,268,018	1,536,897	October	1,377,554	1,465,953
May	1,413,959	1,471,029	November	1,311,432	1,382,710
June	1,455,273	1,626,434	December	744,508	764,183
			Total	14,127,123	15,916,564

TABLE 6. — Materials used in cement plants, 1940-1949

Year	Shale	Limestone	Gypsum	Silica sand	Clay	Iron oxides ¹
	(Tons)					
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 ²	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 ³	99,355	2,525,653	65,431	31,222	227,645	3,862
1947 ³	43,154	3,057,675	81,946	36,223	279,635	5,145
1948 ³	78,377	3,449,947	119,821	47,749	277,178	9,182
1949 ³	76,200	3,985,407	137,785	48,124	325,037	11,885

1. Produced from iron pyrites by the chemical industry.

2. Prior to 1943 shale consumed in British Columbia plants was included with limestone.

3. Value of these materials purchased totalled \$505,994 in 1946; \$651,521 in 1947; \$930,557 in 1948, and \$1,161,010 in 1949.

TABLE 7. — Coal used in cement plants, 1940-1949

Year	Canadian		Foreign	
	Tons	\$	Tons	\$
1940.....	185,325	1,106,287	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	1,834,690
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
1949.....		Not available		

TABLE 8. — Number and capacity of kilns in cement plants, 1940-1949

Year	Total kilns		Kilns in use during the year	
	Number	Total capacity Barrels per 24 hours	Number	Total capacity Barrels per 24 hours
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	31,840
1947.....	19	38,000	19	38,000
1948.....	20	41,000	19	40,300
1949.....	21	47,000	19	45,600

TABLE 9. — Selling price per barrel of Canadian cement, f.o.b. works, 1940-1949

Year	High	Low	Year	High	Low
	\$	\$		\$	\$
1940.....	2.70	1.32	1945.....	2.70	1.38
1941.....	2.35	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
1944.....	3.70	1.25	1949.....	3.30	1.30



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MINERAL PRODUCTION OF CANADA

TABLE 10. — Employees, salaries and wages in the cement manufacturing industry, 1943-1949

Year	Number of Employees					Salaries	Wages	Total salaries and wages
	On salaries		On wages		Total			
	Male	Female	Male	Female				
						\$	\$	\$
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
1949.....	103	9	1,602	7	1,721	356,287	4,398,324	4,754,611

TABLE 11. — Number of workmen in the cement manufacturing industry, by months, 1948 and 1949

Month	1948			1949		
	Quarry	Mill		Quarry	Mill	
	Male	Male	Female	Male	Male	Female
January.....	217	1,330	11	197	1,363	10
February.....	224	1,350	10	210	1,362	10
March.....	221	1,373	10	202	1,377	10
April.....	220	1,363	10	205	1,362	10
May.....	217	1,400	11	206	1,395	10
June.....	213	1,396	11	209	1,425	10
July.....	202	1,404	12	209	1,375	10
August.....	213	1,401	11	207	1,406	10
September.....	207	1,398	11	218	1,411	10
October.....	203	1,387	11	213	1,419	10
November.....	190	1,386	11	213	1,420	10
December.....	188	1,362	10	217	1,384	10
Average.....	211	1,378	11	210	1,392	10

Directory of Cement Producers, 1949

Name of Firm	Head Office Address	Location of Plant
Quebec:		
Canada Cement Company Limited.....	Box 290, Station B, Montreal, Quebec.....	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, Ontario.....	St. Mary's
Manitoba:		
Canada Cement Company Limited.....	Box 290, Station B, Montreal, Quebec.....	Fort Whyte
Alberta:		
Canada Cement Company Limited.....	Box 290, Station B, Montreal, Quebec.....	Edmonton
British Columbia:		
British Columbia Cement Co. Limited.....	500 Fort St., Victoria, British Columbia.....	Bamberton