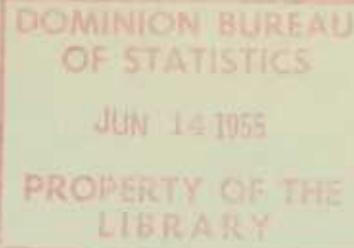


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CANADA



THE CEMENT MANUFACTURING INDUSTRY

1954

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The Right Honourable C. D. Howe, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
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Mineral Statistics Section

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: Volume I — The Primary Industries, including mining, forestry and fisheries; Volume II— Manufacturing; Volume III—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I — Mineral Statistics
- Part II — Forestry Statistics—Operations in the Woods
- Part III — Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A — General Review of the Mining Industry, 50¢
- B — The Gold Mining Industry, 50¢
- C — The Silver-Lead-Zinc Mining Industry, 25¢
- D — The Nickel-Copper Mining, Smelting and Refining Industry, 25¢
- E — The Miscellaneous Metal Mining Industry, 25¢
- F — The Non-ferrous Smelting and Refining Industry, 25¢
- G — The Coal Mining Industry, \$1.00
- H — The Crude Petroleum and Natural Gas Industry, 25¢
- I — The Asbestos Mining Industry, 25¢
- J — The Feldspar and Quartz Mining Industry, 25¢
- K — The Gypsum Industry, 25¢
- L — The Peat Industry, 25¢
- M — The Salt Industry, 25¢
- N — The Talc and Soapstone Industry, 25¢
- O — The Miscellaneous Non-metal Mining Industry, 25¢
- P — The Cement Manufacturing Industry, 25¢
- Q — The Clay and Clay Products Industry, 25¢
- R — The Lime Industry, 25¢
- S — The Sand and Gravel Industry, 25¢
- T — The Stone Industry, 25¢
- U — Contract Drilling in the Mining Industry, 25¢

THE CEMENT MANUFACTURING INDUSTRY

1954

The producers' shipments of Portland cement in Canada amounted to 22,437,477 barrels valued at \$59,035,644 in 1954, compared with 22,238,335 barrels worth \$58,842,022 in the preceding year.

Quebec was the leading province with 7,541,373 barrels; Ontario was a close second with 7,208,061 barrels. The cement plants were operating at capacity in 1954 and in 1953, thus, the output only increased about 1 per cent.

At Villeneuve near Quebec city the St. Lawrence Cement Co. were tuning up their plant at the end of year. Construction of an addition to the Fort Whyte, Manitoba, plant of Canada Cement Co. Ltd. was underway.

The raw materials consumed during the year included: 5,436,225 tons of limestone, 210,373 tons of gypsum, 589,219 tons of clay, 277,085 tons of shale, 69,870 tons of sand, 20,703 tons of iron oxides and varying amounts of other additives.

The industry employed 2,575 persons to whom \$9,802,707 were paid in salaries and wages. Purchased materials, process supplies and containers cost \$10,667,304; fuel cost \$9,059,221, and 435,345,623 kwh of purchased electricity cost \$2,517,295. The imports of cement decreased and the exports increased in 1954. The apparent consumption, as computed from shipments, plus imports, less exports, amounted to 24,606,032 barrels compared with 24,706,390 barrels in 1953.

TABLE 1. Principal Statistics for the Cement Manufacturing Industry, Significant Years, 1921-1954

Year	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost ¹ of process supplies, material and containers, at works	Gross selling value of products (f.o.b. works)	Net ² value of production
	No.	No.	\$	\$	\$	\$	\$
1921.....	14	2,751	3,443,884	2,788,820	N.A.	14,195,143	N.A.
1929.....	11	2,546	3,523,595	4,347,219	"	19,337,235	"
1931.....	12	1,820	2,432,950	3,280,870	"	15,826,243	"
1933.....	12	740	781,746	982,087	"	4,536,935	"
1937.....	9	1,083	1,373,444	1,904,419	540,915	9,095,867	6,650,534
1939.....	8	1,001	1,297,542	1,705,981	1,372,238	8,511,211	6,273,172
1941.....	8	1,235	1,860,931	2,897,383	2,146,825	14,323,372	9,279,164
1944.....	8	1,207	2,254,775	3,197,955	2,566,432	12,646,741	6,882,354
1946.....	8	1,524	2,929,020	4,487,496	4,306,467	21,724,021	12,930,058
1949.....	8	1,721	4,754,611	8,038,190	5,949,640	35,065,152	21,077,322
1951.....	10	1,931	6,242,900	9,068,296	7,324,048	43,023,845	26,631,501
1952.....	11	2,239	7,849,057	9,754,104	8,611,572	51,029,930	32,664,254
1953.....	11	2,391	8,873,694	11,327,001	10,472,651	62,227,924	40,428,272
1954.....	12	2,575	9,802,707	11,576,516	10,667,304	62,196,947	39,953,127

1. Includes process supplies, containers and raw materials.

2. Gross value less cost of materials, fuel and electricity.

TABLE 2. Producers' Shipments¹ of Cement, by Provinces, 1952-1954

Province	1952		1953		1954	
	Barrels	Value	Barrels	Value	Barrels	Value
Newfoundland	126,100	\$ 529,750	395,834	1,345,073	403,515	1,330,018
New Brunswick	604,123	1,543,639	823,900	2,104,469	854,808	2,181,854
Quebec	7,272,241	18,838,458	7,400,912	19,232,112	7,541,373	19,108,680
Ontario	5,577,025	14,142,060	7,078,181	18,497,744	7,208,061	18,958,173
Manitoba	1,612,795	4,636,604	1,614,301	4,676,137	1,633,389	4,760,539
Alberta	1,886,544	4,765,686	3,098,664	7,915,227	3,052,805	7,761,082
British Columbia	1,441,710	3,603,273	1,826,543	5,071,260	1,743,526	4,935,298
Canada	18,520,538	48,059,470	22,238,335	58,842,022	22,437,477	59,035,644

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

TABLE 3. Production, Imports and Exports of Cement, 1953 and 1954

	1953		1954	
	Barrels ¹	Value	Barrels ¹	Value
Output	22,412,772	\$ —	22,622,021	—
Shipments (sold or used by producers)	22,238,335	58,842,022	22,437,477	59,035,644
Stocks on hand December 31	896,651	—	1,083,203	—
Imports:				
Portland cement and hydraulic or water-lime	2,482,783	7,403,158	2,292,200	6,316,890
Portland cement clinker (white)	65,552	211,513	79,885	254,149
Exports:				
Portland cement	14,728	77,559	123,645	496,058
Apparent consumption²	24,706,390	—	24,606,032	—

1. 1 barrel - 350 pounds.

2. Exclusive of clinker imported.

TABLE 4. Producers' Shipments and Apparent Consumption of Cement, 1945-1954

Year	Shipments (sold or used)		Imports	Exports	Apparent consumption ¹
	Barrels	Value	Barrels	Barrels	Barrels
1945		\$			
1945	8,471,679	14,246,480	32,653	281,944	8,222,388
1946	11,560,483	20,122,503	350,057	114,370	11,796,170
1947	11,936,245	21,968,909	1,248,625	88,030	13,096,840
1948	14,127,123	28,264,987	1,120,671	72,999	15,174,795
1949	15,916,564	32,901,936	2,284,000	19,212	18,181,352
1950	16,741,826	35,894,124	1,386,219	23,909	18,104,136
1951	17,007,812	40,446,288	2,327,431	2,590	19,332,653
1952	18,520,538	48,059,470	2,913,981	4,305	21,430,214
1953	22,238,335	58,842,022	2,482,783	14,728	24,706,390
1954	22,437,477	59,035,644	2,292,200	123,645	24,606,032

1. Shipments plus imports less exports.

TABLE 5. Producers' Shipments of Cement, by Months, 1953 and 1954

Month	1953	1954	Month	1953	1954
	Barrels			Barrels	
January.....	1,038,573	889,594	July	2,187,370	2,558,313
February.....	1,179,271	1,186,065	August.....	2,014,200	2,304,809
March	1,803,688	1,761,196	September	2,213,215	2,079,125
April	1,972,328	1,835,407	October	2,107,809	1,956,985
May	2,251,114	2,303,697	November	2,051,141	1,904,811
June	2,192,700	2,592,344	December	1,226,926	1,065,131
			Total	22,238,335	22,437,477

TABLE 6. Materials Used in Cement Plants, 1945-1954

Year	Cost at works of materials listed in following columns and other	Shale	Limestone	Gypsum	Sand	Clay	Iron oxides ¹	\$	Tons
								\$	Tons
1945	—	70,600	1,849,258	45,883	29,424	161,980	3,197		
1946	505,994	99,355	2,525,653	65,431	31,222	227,645	3,862		
1947	651,521	43,154	3,057,675	81,946	36,223	279,635	5,145		
1948	990,577	78,377	3,449,947	119,821	47,749	277,178	9,182		
1949	1,161,010	76,200	3,985,407	137,785	48,124	325,037	11,885		
1950	1,246,520	79,325	4,119,216	137,170	52,509	360,927	12,145		
1951	1,391,842	87,081	4,246,501	146,603	60,015	405,159	10,552		
1952	1,535,420	142,988	4,513,625	161,210	57,906	443,504	11,959		
1953	2,029,172	249,209	5,330,778	199,743	58,548	571,069	20,703		
1954	2,130,976	277,085	5,436,225	210,373	69,870	589,219	17,177		

1. Produced from iron pyrites by the chemical industry.

TABLE 7. Coal Used in Cement Plants, 1945-1954

Year		Canadian		Foreign	
		Tons	Value	Tons	Value
			\$		\$
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		440,038	1	231,870	1
1950		453,930	1	228,797	1
1951		421,812	1	244,250	1
1952		346,255	1	281,970	1
1953		363,054	3,553,974	353,450	3,485,822
1954		380,317	1	341,299	1

1. Value is not available.

TABLE 8. Number and Capacity of Kilns in Cement Plants, 1945-1954

Year	Total kilns		Kilns in use during the year	
	Number	Total capacity— barrels per 24 hours	Number	Total capacity— barrels per 24 hours
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
1949	21	47,000	19	45,600
1950	19	45,800	19	45,800
1951	21	48,700	21	48,700
1952	24	56,900	22	50,400
1953	27	63,825	26	62,675
1954	28	68,650	28	68,650

TABLE 9. Employees and Their Earnings in the Cement Manufacturing Industry, 1950-1954

Year	Number of employees					Number of man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total		Office and adminis- trative	Workmen	Total	
	Male	Female	Male	Female						
1950	102	10	1,665	4	1,781	4,448,162	384,563	4,851,172	5,235,735	
1951	109	11	1,809	2	1,931	4,624,879	468,679	5,774,221	6,242,900	
1952	142	17	2,076	4	2,239	5,081,639	625,568	7,223,489	7,849,057	
1953	139	17	2,232	3	2,391	5,342,651	679,279	8,194,415	8,873,694	
1954	211	23	2,338	3	2,575	5,655,005	1,040,518	8,762,189	9,802,707	

TABLE 10. Number of Workmen in the Cement Manufacturing Industry, by Months, 1953-1954

Month	1953					1954				
	Quarry	Mill		Total	Quarry	Mill		Total		
		Male	Female			Male	Female			
January.....	242	1,842	3	2,087	262	1,886	2	2,150		
February.....	252	1,894	3	2,149	280	1,936	2	2,218		
March.....	249	1,885	3	2,137	269	1,972	3	2,244		
April.....	246	1,939	3	2,188	280	2,006	3	2,289		
May.....	267	2,017	3	2,287	284	2,098	3	2,385		
June.....	267	2,036	3	2,306	307	2,097	3	2,407		
July.....	259	2,062	3	2,324	285	2,116	3	2,404		
August.....	261	2,058	3	2,322	291	2,131	3	2,425		
September.....	263	2,010	3	2,276	310	2,085	2	2,397		
October.....	255	2,011	3	2,269	314	2,050	3	2,367		
November.....	255	2,013	3	2,271	341	2,051	3	2,395		
December.....	242	1,967	3	2,212	333	2,034	3	2,370		
Average.....	255	1,977	3	2,235	300	2,038	3	2,341		
Number of man-hours worked during year.....				5,015,469				5,655,005		

TABLE 11. World Production of Hydraulic Cement, by Countries¹, 1949-1953
 (From the annual review published by the United States Bureau of Mines)¹

Country	1949	1950	1951	1952	1953
(in thousands of metric tons)					
North America:					
Canada (sold or used by producers).....	2,527	2,658	2,700	2,940	3,584
Cuba	312	316	382	420	407
Dominican Republic	54	70	104	137	130
Guatemala	36	42	57	60	67
Jamaica	—	—	—	75	100 ²
Mexico	1,228	1,528	1,615	1,640	1,672
Nicaragua.....	16	17	20	19	24
Panama.....	54	51	75	93	80
Salvador	—	—	—	—	36
United States.....	36,313	39,273	42,548	43,091	45,620 ¹¹
South America:					
Argentina	1,452	1,572	1,560	1,548	1,644
Bolivia	42	38	39	37	34
Brazil	1,281	1,386	1,456	1,616	2,041
Chile.....	495	513	698	818	762
Colombia	475	580	648	707	873
Ecuador	52	58	79	89	91
Paraguay	—	—	—	4	3
Peru	289	331	367	370	449
Uruguay	293	305	301	300	297
Venezuela	285	501	621	840	982
Europe:					
Albania.....	4	15	4	4	4
Austria	1,098	1,289	1,475	1,390	1,394
Belgium	2,925	3,557	4,395	4,111	4,626
Bulgaria	4	4	4	674	650 ²
Czechoslovakia.....	1,738	1,8755	2,000 ⁵	2,520 ⁵	2,620 ⁵
Denmark	834	873	985	1,212	1,260
Finland	656	743	829	778	937
France	6,443	7,208	8,125	8,645	9,050
Germany:					
West Germany	8,460	10,877	12,204	12,886	15,377
East Germany	1,000	4	4	2	2,300 ²
Greece	330	399	433	596	702
Hungary ²	550	800	949	1,080	1,100
Ireland	431	444	426	460	4
Italy	4,037	5,044	5,578	6,652	7,554
Luxembourg	121	125	132	114	147
Netherlands	552	593	702	813	861
Norway	593	582	720	725	767
Poland	2,342	2,512	2,688	2,660	3,320
Portugal	521	573	644	727	769
Rumania	560	650	733	1,500	2,100
Saar.....	206	208	234	238	305
Spain	2,248	2,522	2,742	2,962	3,256
Sweden	1,698	1,936	2,035	2,116	2,316
Switzerland	977	1,078	1,315	1,384	1,582
U.S.S.R. ²	8,000	10,500	12,400	14,100	16,000
United Kingdom.....	9,364	9,913	10,388	11,314	11,397
Yugoslavia.....	1,288	1,219	1,159	1,313	1,281

TABLE 11. World Production of Hydraulic Cement, by Countries, 1949-1953 — Concluded
 (From the annual review published by the United States Bureau of Mines)¹

Country	1949	1950	1951	1952	1953
(in thousands of metric tons)					
Asia:					
Burma	—	—	—	—	41
Ceylon	—	—	63	61	64
China ²	450	800	1,300	2,000	2,300
Hong Kong	59	67	71	68	64
India	2,136	2,652	3,252	3,594	3,840
Indochina	154	144	212	235	291
Indonesia	4	4	100 ²	137	148
Iran	59 ⁹	64 ⁹	65 ⁹	65	70
Iraq	7	66	75 ¹⁰	104	177
Israel	241	380	439	446	465
Japan	3,277	4,463	6,548	7,117	8,768
Korea (Republic of)	24	12	7	36	44
North Korea	4	4	4	4	4
Lebanon	233	263	303	285	305
Malaya	—	—	—	—	26
Pakistan	429	421	507	539	606
Philippines (Republic of the)	201	292	309	310	291
Syria	58	68	64	151	224
Taiwan (Formosa) ²	291	332	389	446	520
Thailand (Siam)	127	166	312	247	288
Turkey	375	388	396	459	530
Africa:					
Algeria	128	324	448	470	482
Angola	—	—	—	—	29
Belgian Congo	144	174	205	240	2792
Egypt	889	1,022	1,130	947	1,097
Ethiopia ²	8	6	6	6	10
French Morocco	264	321	377	435	610
French West Africa	44	60	55	80	60
Madagascar	7	5	5	4	4
Mozambique	46	50	78	83	4
Northern Rhodesia	—	—	55	55	702
Southern Rhodesia	83	156	163	216 ²	4
Tunisia	168	169	187	208	227
Union of South Africa	1,363	1,847	1,954	2,027	2,340
Oceania:					
Australia	1,076	1,278	1,236	1,357	1,598
New Zealand	254	256	163	263	280
Total (estimate)	115,000	132,300	149,000	161,000	178,000

1. This table incorporates a number of revisions of data published in previous cement chapters.

2. Estimate.

3. Average for one year only as 1948 was first year of production.

4. Data not available.

5. Planned production.

6. Includes Saar 1944-45.

7. Average for 1948-48.

8. Pakistan included with India.

9. Year ended March 20, of year following that stated.

10. Year ended March 31, of year following that stated.

11. Preliminary.

Directory of Cement Producers, 1954

Name of firm	Head office address	Location of plant
Newfoundland: North Star Cement Co. Ltd.....	Corner Brook	Corner Brook
New Brunswick: Canada Cement Company Limited	Box 490, Station B, Montreal, Quebec	Havelock
Quebec: Canada Cement Company Limited	Box 490, Station B, Montreal, Quebec	Hull
Ciment Québec Inc.	St-Basile, Cté Portneuf, Québec	Montréal Est
St. Lawrence Cement Co.	Blvd. Ste. Anne, Villeneuve, Quebec	St-Basile
		Villeneuve
Ontario: Canada Cement Company Limited	Box 490, Station B, Montreal, Quebec	Belleville
St. Mary's Cement Co. Limited.....	2221 Yonge St., Toronto, Ontario	Port Colborne
		St. Mary's
Manitoba: Canada Cement Company Limited	Box 490, Station B, Montreal, Quebec	Fort Whyte
Alberta: Canada Cement Company Limited	Box 490, Station B, Montreal, Quebec	Exshaw
British Columbia: British Columbia Cement Co. Limited.....	500 Fort St., Victoria, British Columbia	Bamberton



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