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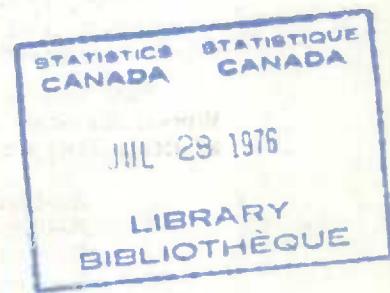
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DOMINION BUREAU OF STATISTICS—DEPARTMENT OF TRADE AND COMMERCE
CANADA

THE CEMENT MANUFACTURING INDUSTRY

1952



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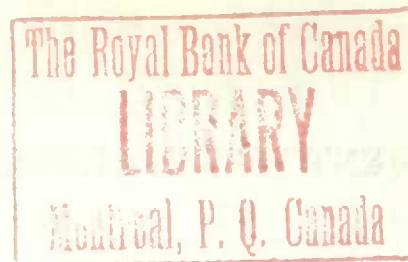
Prepared in the Mining, Metallurgical and Chemical Section
Industry and Merchandising Division
Dominion Bureau of Statistics
Ottawa

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1952



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 Diamond Drilling in the Mining Industry, 25¢.

(20 May '53)

Canada, D.B.S.

THE CEMENT MANUFACTURING INDUSTRY 1952

Producers' shipments of Portland cement during 1952 amounted to 18,520,538 barrels valued at \$48,059,470 compared with 17,007,812 barrels worth \$40,446,288 in the preceding year.

Cement was produced in seven provinces. Quebec plants shipped 7,242,241 barrels, Ontario producers shipped 5,577,025 barrels and the Alberta plants disposed of 1,886,544 barrels. Shipments from works in other provinces were: Manitoba, 1,612,795 barrels; British Columbia, 1,441,710 barrels; New Brunswick, 604,123 barrels; and Newfoundland, 126,100 barrels.

The three new plants which were tuning-up late in 1951 came into regular production during 1952. One of these plants was located at St. Basile, Quebec, another at Havelock, New Brunswick and the third at Corner Brook, Newfoundland.

Raw materials used in 1952 included 4,513,625 tons of limestone, 161,210 tons of gypsum, 443,504 tons of clay, 11,959 tons of iron oxide, 57,906 tons of silica sand and 142,988 tons of shale.

The industry employed an average of 2,239 persons to whom \$7,849,057 were distributed in salaries and wages. Purchased materials, process supplies and containers cost \$8,611,572; fuels cost \$7,845,409 and 344,773,732 k.w.h. of purchased electricity cost \$1,908,695.

Imports of cement in 1952 increased to 2,913,981 barrels valued at \$9,068,181. Exports amounted to 4,305 barrels worth \$20,686. The apparent consumption as computed from shipments, plus imports, less exports amounted to 21,430,214 barrels in 1952 compared with 19,332,653 barrels in 1951.

TABLE 1. Principal Statistics for the Cement Manufacturing Industry, 1943-1952

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost ¹ of process supplies, materials and containers, at works	Gross value of products sold during year, including containers (f.o.b. works)	Net ² value of production
1943	8	1,209	2,154,218	3,089,380	2,467,709	12,709,852	7,152,763
1944	8	1,207	2,254,775	3,197,955	2,566,432	12,646,741	6,382,354
1945	8	1,317	2,398,117	3,210,929	2,794,676	15,422,031	9,416,425
1946	8	1,524	2,929,020	4,487,496	4,306,467	21,724,021	12,930,058
1947	8	1,650	3,679,446	5,777,917	4,354,657	23,582,011	13,449,437
1948	8	1,723	4,356,086	7,158,156	5,699,042	30,551,717	17,704,519
1949	8	1,721	4,754,611	8,038,190	5,949,640	35,065,152	21,077,322
1950	8	1,781	5,235,735	8,605,095	6,504,314	38,200,513	23,091,104
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

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, 1950-1952

Province	1950		1951		1952	
	Barrels	Value	Barrels	Value	Barrels	Value
		\$		\$		\$
Newfoundland	—	—	—	—	126,100	529,750
New Brunswick	—	—	—	—	604,123	1,543,639
Quebec	6,920,413	14,523,855	7,055,164	16,633,377	7,272,241	18,838,458
Ontario	5,313,521	10,953,896	5,438,101	12,494,677	5,577,025	14,142,060
Manitoba	1,642,312	3,963,464	1,539,612	4,108,752	1,612,795	4,636,604
Alberta	1,589,713	3,364,613	1,649,909	3,898,043	1,886,544	4,765,686
British Columbia	1,275,867	3,088,296	1,325,026	3,311,439	1,441,710	3,603,273
Canada	16,741,826	35,894,124	17,007,812	40,446,288	18,520,538	48,059,470

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

TABLE 3. Production, Imports and Exports of Cement, 1951 and 1952

	1951		1952	
	Barrels ¹	Value	Barrels ¹	Value
		\$		\$
Output	17,123,931	—	18,405,003	—
Shipments (sold or used by producers)	17,007,812	40,446,288	18,520,538	48,059,470
Stocks on hand December 31	855,410	—	739,873	—
Imports:				
Portland cement and hydraulic or water lime	2,327,431	7,447,859	2,913,981	9,063,131
Portland cement clinker (white)	45,812	157,202	48,132	153,383
Exports:				
Portland cement	2,590	12,386	4,305	20,686
Apparent consumption²	19,332,653	—	21,430,214	—

1. 1 barrel — 350 pounds.

2. Exclusive of clinker imported.

TABLE 4. Producers' Shipments and Apparent Consumption of Cement, 1943-1952

Year	Shipments (sold or used)		Imports	Exports	Apparent consumption ¹
	Barrels	Value	Barrels	Barrels	Barrels
		\$			
1943	7,302,289	11,599,033	18,577	172,601	7,148,265
1944	7,190,851	11,621,372	14,004	210,449	6,994,406
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

1. Shipments plus imports less exports.

TABLE 5. Producers' Shipments of Cement, by Months, 1951 and 1952

Month	1951	1952	Month	1951	1952
Barrels			Barrels		
January	895,498	857,398	July	1,599,009	1,877,806
February	960,037	1,184,013	August	1,762,223	1,661,071
March	1,385,209	1,507,239	September	1,550,402	1,673,582
April	1,542,365	1,534,070	October	1,657,181	1,757,796
May	1,890,563	2,017,682	November	1,288,048	1,603,792
June	1,686,081	1,745,018	Total	791,191	1,051,071
				17,007,812	18,520,538

TABLE 6. Materials Used in Cement Plants, 1943-1952

Year	Cost at works of materials listed in following columns	\$	Shale	Limestone	Gypsum	Sand	Clay	Iron oxides ¹
								Tons
1943	—	75,460	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	505,994	99,355	2,525,653	65,431	31,222	227,645		3,362
1947	651,521	43,154	3,057,675	81,946	36,223	279,635		5,145
1948	990,557	78,377	3,449,947	119,821	47,749	277,178		9,182
1949	1,161,010	76,200	3,985,407	137,735	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

1. Produced from iron pyrites by the chemical industry.

TABLE 7. Coal Used in Cement Plants, 1943-1952

Year	Canadian		Foreign	
	Tons	Value	Tons	Value
		\$		\$
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
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

1. Value is not available.

TABLE 8. Number and Capacity of Kilns in Cement Plants, 1943-1952

Year	Total kilns		Kilns in use during the year	
	Number	Total capacity— barrels per 24 hours	Number	Total capacity— barrels per 24 hours
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
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

TABLE 9. Employees and Their Earnings in the Cement Manufacturing Industry, 1948-1952

Year	Number of employees					Number of man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total		Office and adminis- trative	Earnings		
	Male	Female	Male	Female				Workmen	Total	
1948	114	9	1,589	11	1,723	Not available	346,453	\$ 4,009,633	\$ 4,356,086	
1949	103	9	1,602	7	1,721	4,448,162	356,287	4,398,324	4,754,611	
1950	102	10	1,665	4	1,781	4,624,879	384,563	4,851,172	5,235,735	
1951	109	11	1,809	2	1,931	5,081,639	468,679	5,774,221	6,242,900	
1952	142	17	2,076	4	2,239	625,568	239	7,223,489	7,849,057	

TABLE 10. Number of Workmen in the Cement Manufacturing Industry, by Months, 1951 and 1952

Month	1951				1952			
	Quarry	Mill		Total	Quarry	Mill		Total
		Male	Female			Male	Female	
January	250	1,506	2	1,758	239	1,741	3	1,983
February	270	1,467	2	1,739	237	1,750	3	1,990
March	297	1,465	1	1,763	232	1,777	3	2,012
April	302	1,475	1	1,778	252	1,811	3	2,066
May	302	1,484	2	1,788	254	1,857	4	2,115
June	309	1,509	2	1,820	247	1,843	4	2,094
July	316	1,514	2	1,832	237	1,865	4	2,106
August	318	1,538	2	1,858	242	1,885	4	2,131
September	328	1,526	1	1,855	255	1,866	4	2,125
October	337	1,516	2	1,855	246	1,842	3	2,091
November	348	1,519	2	1,869	242	1,859	3	2,104
December	323	1,493	2	1,818	250	1,819	3	2,072
Average	307	1,502	2	1,811	247	1,829	4	2,080
Number of man-hours worked during year	4,372,567				4,762,275			

TABLE 11. World Production of Hydraulic Cement, by Countries¹, 1947-1950

(From the annual review published by the United States Bureau of Mines)

Country ¹	1947	1948	1949	1950
	Metric tons			
North America:				
Canada	1,894,956	2,242,773	2,526,858	2,646,809
Cuba	276,369	384,954	312,290	316,251
Dominican Republic	16,800	43,452	53,561	70,443
Guatemala	27,600	31,573	35,852	41,610
Mexico	707,800	833,444	1,227,600	1,522,800
Nicaragua	15,959	16,220	16,462	16,512
Panama	-	41,300	53,600	50,971
United States	32,314,655	35,626,454	36,312,780	39,273,486
South America:				
Argentina	1,363,400	1,251,770	1,452,000	1,560,000
Bolivia	38,828	39,130	41,546	3
Brazil	913,525	1,111,503	1,281,047	1,381,976
Chile	602,299	539,789	495,208	512,848
Colombia	346,227	363,749	474,726	579,977
Ecuador	33,231	40,369	52,250	57,607
Peru	255,644	282,373	280,500	331,297
Uruguay	280,831	287,466	293,377	304,512
Venezuela	145,881	214,513	285,000	501,006
Europe:				
Austria	281,271	721,379	1,091,012	1,280,400
Belgium	2,609,174	3,330,948	2,924,998	3,557,231
Bulgaria	3	325,000 ²	3	3
Czechoslovakia	1,404,000	1,650,000	1,738,000	3
Denmark	633,560	769,064	834,000	873,000
Finland	417,737	555,800	655,984	743,000
France	3,920,829	5,067,855	6,443,352	7,208,400
Germany:				
Federal Republic	2,996,200	5,581,200	8,460,000	10,877,000
Soviet Zone	3	765,000	1,000,000	3
Greece	182,000	288,000	326,000 ²	3
Hungary	209,060	145,000 ²	640,000 ²	3
Ireland	291,000	398,000	453,000 ²	3
Italy	2,754,091	3,143,808	4,036,501	5,003,546
Luxembourg	89,272	102,000	121,000	125,000
Netherlands	519,262	588,997	552,032	592,800
Norway	472,612	526,187	592,184	583,200
Poland	1,521,822	1,823,857	2,200,000	2,376,000
Portugal	427,734	498,069	521,435	572,549
Romania	422,000	452,000	560,000	650,000
Spain	2,186,338	2,330,850	2,247,608	2,521,107
Sweden	1,550,103	1,486,450	1,698,369	1,944,000
Switzerland	994,790	1,000,000 ²	950,000 ²	1,078,000
U.S.S.R. ²	4,800,000	6,600,000	8,000,000	10,500,000
United Kingdom	7,071,708	8,656,700	9,364,000	9,912,600
Yugoslavia	1,233,180	1,188,000	1,300,000 ²	3

TABLE 11. World Production of Hydraulic Cement, by Countries¹, 1947-1950 — Concluded

(From the annual review published by the United States Bureau of Mines)

Country ¹	1947	1948	1949	1950
(In metric tons)				
Asia:				
China	608,692	3	218,000 ⁴	430,000 ⁴
Taiwan (Formosa) ²		235,000	280,800	332,000
Hong Kong	34,220	53,200	58,700	68,400
India ⁵	1,470,895	1,577,831	2,135,737	2,652,000
Indochina	39,871	97,259	154,000	144,000
Indonesia	10,000	37,751	3	3
Iran ⁶	42,714 ⁷	64,795	58,500	64,000
Iraq	—	—	7,007	66,051
Israel	328,394	159,865	241,393	380,128
Japan	1,236,000	1,848,000	3,274,572	4,458,000
Korea:				
North	150,000 ²	3	3	3
South	18,191	17,350	24,132	3
Lebanon	167,116	208,800	233,000	263,197
Pakistan	8	327,168	431,000	3
Philippines	133,918	120,384	201,089	292,051
Syria	48,200	54,400	57,800	67,800
Thailand	58,800	82,800	127,200	165,600
Turkey	350,456	344,924	372,584	386,813
Africa:				
Algeria	127,815	129,867	128,075	322,071
Belgian Congo	115,441	126,942 ²	156,914 ²	186,519 ²
Egypt	648,353	763,283	800,000 ²	1,000,000 ²
Ethiopia ²	3	8,000	8,000	3
French Morocco	218,877	262,232	264,000	321,000
Mozambique	35,858	37,207	45,841	3
Southern Rhodesia	71,200	69,000	3	3
Tunisia	115,100	161,700	167,631	169,200
Union of South Africa	1,251,743	1,308,000	1,363,200	1,846,800
Oceania:				
Australia ⁹	896,400	1,029,600	1,047,600	1,177,200
New Zealand	219,409	247,205	254,039	255,528
Total¹⁰	85,400,000	101,500,000	114,600,000	131,500,000

1. In addition to countries listed, hydraulic cement is produced in Albania, Eritrea, and Madagascar, but data are not available (see footnote 10).

2. Estimate.

3. Data not available, estimate included in total.

4. Manchuria only.

5. Beginning September 1947, excludes Pakistan.

6. Fiscal year ended March 20 of year following that stated.

7. Production in government-operated plants only.

8. Included in India.

9. Fiscal year ended June 30 of year stated.

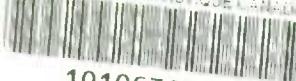
10. Estimated; excludes estimates for countries listed in footnote 1 as production in those countries is believed to be negligible.

Directory of Cement Producers, 1952

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 290, Station B, Montreal, Quebec	Havelock
Quebec: Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec	Hull
Ciment Québec Inc.	St-Basile, Cté Portneuf, Québec.....	Montréal Est St-Basile
Ontario: Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec	Belleville
St. Mary's Cement Co. Limited	357 Bay St., Toronto, Ontario.....	Port Colborne St. Marys
Manitoba: Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec.....	Fort Whyte
Alberta: Canada Cement Company Limited	Box 290, Station B, Montreal, Quebec.....	Exshaw
British Columbia: British Columbia Cement Co. Limited.....	500 Fort St., Victoria, British Columbia	Bamberton

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