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THE GYPSUM INDUSTRY

1949

Published by Authority of the Rt. Hon. C. D. HOWE
Minister of Trade and Commerce

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

805-442

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 GYPSUM INDUSTRY

1949

Part I - Primary Production: The Gypsum Mining Industry, 1949

Producers' shipments of gypsum during 1949 amounted to 3,014,249 tons valued at \$5,423,690 compared with 3,216,809 tons valued at \$5,548,245 in 1948. Output consisted of various grades of crude gypsum and crude anhydrite as shipped from quarries or mines, together with calcined gypsum used in or shipped from primary plants. Nine firms operated 14 quarries or mines in 1949.

The gypsum mining industry employed 925 persons to whom \$2,226,703 was paid in salaries and

wages. The cost of fuel was \$299,085 and \$112,332 was paid for 11,596,319 k.w.h. of electricity. Process supplies and containers cost \$1,070,457.

Some of the Canadian gypsum mining companies restrict their operations to the production and sale of crude gypsum or anhydrite while others, in addition to marketing various grades of crude gypsum, produce calcine for sale or for consumption in their own manufacturing plants in making wallboard, wall plaster, etc.

TABLE 1. Principal Statistics for the Gypsum Mining Industry, 1940-1949

Year	Number of firms	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies ¹	Selling value of products, f.o.b. shipping point (including containers)
				\$	\$	\$	\$
1940	9	16	694	717,666	194,964	223,375	2,065,933
1941	8	15	648	745,008	222,564	229,444	2,248,428
1942	7	13	510	657,620	178,682	65,457	1,254,182
1943	6	12	438	617,780	201,980	46,063	1,381,468
1944	8	12	328	490,872	148,743	239,198	1,511,978
1945	7	12	434	647,287	184,619	391,026	1,783,290
1946	8	14	753	1,246,673	260,479	520,868	3,696,727
1947	8	13	908	1,695,711	364,115	638,630	4,782,429
1948	9	14	995	2,272,358	481,392	1,295,840	5,642,881
1949	9	14	925	2,226,703	411,417	1,069,102	5,425,045

1. Excludes containers.

TABLE 2. Production¹ of Gypsum, 1948 and 1949

	1948		1949	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Shipments by grades:				
Crude:				
Lump or mine run ²	31,678	65,196	12,621	21,444
Crushed ²	2,831,106	3,179,596	2,608,599	2,949,940
Fine ground	1,482	10,450	3,721	20,373
Calcined gypsum, sold and used ³	352,543	2,293,003	389,308	2,431,933
Total	3,216,809	5,548,245	3,014,249	5,423,690

1. "Production" means producers' shipments of crude gypsum plus calcined gypsum shipped or used at mine.

2. Includes some anhydrite quarried in Nova Scotia.

3. Does not include gypsum calcined in manufacturing plants located in Montreal and Calgary, but includes calcine used in manufacturing plants operated in direct or close conjunction with the mines; the value of calcine used is its value as a process material.

TABLE 2, Production¹ of Gypsum, 1948 and 1949 - Concluded

	1948		1949	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Shipments by provinces:				
Nova Scotia.....	2,795,848	3,028,646	2,555,795	2,766,005
New Brunswick.....	61,534	338,405	80,436	371,529
Ontario.....	182,303	770,004	203,187	871,467
Manitoba.....	94,698	836,483	94,918	797,723
British Columbia.....	82,426	574,707	79,913	616,966
Total.....	3,216,809	5,548,245	3,014,249	5,423,690
Total gypsum mined and quarried ²	3,487,964	—	3,147,114	—
Total gypsum calcined ³	430,581	—	501,989	—
Value of containers.....	—	94,636	—	1,355

1. "Production" means producers' shipments of crude gypsum plus calcined gypsum shipped or used at mine.

2. Includes some anhydrite quarried in Nova Scotia.

3. Does not include gypsum calcined in manufacturing plants located in Montreal and Calgary, but includes calcine used in manufacturing plants operated in direct or close conjunction with the mines; the value of calcine used is its value as a process material.

TABLE 3. Production of Gypsum, 1940-1949

Year	Tons	Value	Year	Tons	Value
		\$			\$
1940.....	1,448,788	2,065,933	1945.....	839,781	1,783,290
1941.....	1,593,406	2,248,428	1946.....	1,810,937	3,671,503
1942.....	566,166	1,254,182	1947.....	2,496,984	4,734,853
1943.....	466,848	1,381,468	1948.....	3,216,809	5,548,245
1944.....	596,164	1,511,978	1949.....	3,014,249	5,423,690

TABLE 4. Production of Gypsum, by Months, 1948 and 1949

Month	1948	1949	Month	1948	1949
	(tons)			(tons)	
January.....	141,562	152,998	August.....	387,120	356,182
February.....	40,915	128,567	September.....	347,081	380,463
March.....	82,875	107,273	October.....	415,110	387,990
April.....	226,976	164,934	November.....	292,209	250,200
May.....	275,161	269,187	December.....	174,990	173,836
June.....	356,490	272,483	Total.....	3,216,809	3,014,249
July.....	476,320	370,133			

TABLE 5. Imports and Exports of Gypsum, 1948 and 1949

	1948		1949	
	Quantity tons	Value \$	Quantity tons	Value \$
Imports:				
Gypsum, crude, and gypsum ground, not calcined.....	1,031	21,577	566	20,309
Plaster of Paris and wall plaster.....	9,953	201,806	8,731	186,310
Total.....	-	223,383	-	206,619
Exports:				
Gypsum, crude.....	2,617,271	2,702,870	2,544,617	2,635,871
Plaster of Paris, wall plaster.....	742	18,852	3,298	4,624
Gypsum, ground.....	10,794	16,741	-	-
Total.....	-	2,738,463	-	2,641,495

TABLE 6. Consumption of Gypsum in the Portland Cement Industry, 1940-1949

Year	Tons	Year	Tons
1940.....	38,903	1945.....	45,883
1941.....	49,031	1946.....	65,431
1942.....	49,816	1947.....	81,946
1943.....	47,034	1948.....	119,821
1944.....	42,672	1949.....	137,785

TABLE 7. Consumption of Gypsum in the Gypsum Products Industry, 1940-1949

Year	Crude		Calcined		Year	Crude		Calcined	
	(tons)					(tons)			
1940.....	21,611	125,917	10,147	194,351	1945.....	10,147	194,351		
1941.....	30,978	157,488	46,617	253,617	1946.....	46,617	253,617		
1942.....	20,742	149,885	52,183	298,950	1947.....	52,183	298,950		
1943.....	17,489	162,273	31,991	362,555	1948.....	31,991	362,555		
1944.....	26,683	165,750	75,127	387,397	1949.....	75,127	387,397		

TABLE 8. Employees and their Earnings, by Provinces, 1948 and 1949

Province	Average number of employees					Earnings		
	Administrative and office		Workmen		Total	Administrative and office	Workmen	Total
	Male	Female	Male	Female				
1948								
Nova Scotia.....	30	5	592	1	628	\$ 117,780	\$ 1,305,948	\$ 1,423,728
Other provinces.....	11	4	352	-	367	34,219	814,411	848,630
Canada.....	41	9	944	1	995	151,999	2,120,359	2,272,358
1949								
Nova Scotia.....	27	7	555	2	591	107,072	1,230,724	1,337,796
Other provinces.....	11	1	322	-	334	29,790	859,117	888,907
Canada.....	38	8	877	2	925	136,862	2,089,841	2,226,703

TABLE 9. Number of Workmen on Payroll on the Last Day of Each Month, 1948 and 1949

Month	1948				1949				
	Mine		Mill		Mine			Mill	
	Surface	Under-ground	Male	Female	Surface		Under-ground	Male	Female
	Male				Male	Female			
January.....	306	181	237	1	452	1	178	216	1
February.....	262	187	217	1	382	1	167	174	1
March.....	340	184	263	1	384	1	162	187	1
April.....	406	178	229	1	450	1	158	205	1
May.....	491	177	376	1	527	1	162	262	1
June.....	504	172	387	1	530	1	156	254	1
July.....	525	162	370	1	516	1	156	238	1
August.....	531	164	401	1	515	1	149	255	1
September.....	547	168	413	1	543	1	148	325	1
October.....	581	190	393	1	570	1	160	322	1
November.....	521	196	259	1	508	1	151	224	1
December.....	505	201	160	1	442	1	160	153	1
Average.....	461	179	304	1	484	1	158	235	1

TABLE 10. World Production of Gypsum, by Countries, 1945-1948 (From a report published by the United States Bureau of Mines)

Country ¹	1945	1946	1947	1948
	(metric tons)			
Algeria.....	22,250	28,600	31,000	2
Anglo-Egyptian Sudan.....	2,106	3,063	350	2
Argentina ³	91,504	2	2	2
Australia:				
New South Wales.....	23,137	45,136	65,098	2
South Australia.....	66,653	91,878	108,672	139,500 ⁴
Victoria.....	11,755	15,184	23,262	28,800 ⁴
Western Australia.....	7,349	15,596	20,608	25,932
Austria.....	2	2	14,753	2
Belgian Congo.....	—	—	2	—
Canada.....	753,615	1,838,895	2,362,365	2,855,812
Chile.....	47,162	77,000	84,000	35,056
China.....	2	2	50,000	55,000 ⁴
Colombia.....	2	2	17,372	4,200
Cuba ⁴	10,400	14,300	14,900	16,500
Cyprus (exports).....	2,608	15,464	7,844	19,500
Dominican Republic.....	3,258 ⁵	10,974 ⁵	13,393	7,304
Egypt.....	96,565	78,316	80,000	95,243
France.....	724,000	1,746,375	585,000	2
French Morocco.....	8,740	13,335	25,631 ⁵	2

1. In addition to the countries listed gypsum is produced in Angola, Brazil, Ethiopia, Iraq, Luxembourg, Mexico, Republic of the Philippines, U.S.S.R. and Yugoslavia, but production data are not available.

2. Data not available; estimate included in total.

3. Rail and river shipments.

4. Estimate.

5. Exports.

TABLE 10. World Production of Gypsum, by Countries, 1945-1948 (From a report published by the United States Bureau of Mines) - Concluded

Country ¹	1945	1946	1947	1948
	(metric tons)			
Germany.....	2	71,000 ³	2	235,325 ⁴
Greece.....	—	5,150	5,000 ⁵	2
India.....	92,229	77,643	38,300	2
Indochina, French.....	2	2	2	—
Ireland.....	23,400	37,894	36,375	2
Italy.....	162,080	2	2	2
Japan.....	83,421	43,260	54,455	119,459
Kenya.....	209	508	659	1,016
New Caledonia.....	8,030	6,750	2,705	779
Palestine and Israel.....	7,542	14,512	2	2
Peru.....	42,223	43,391	41,330	2
Poland.....	2	9,787	14,917	14,183
Portugal.....	—	—	—	2
Rumania.....	2	2	2	2
Spain.....	1,038,616	1,098,013	1,337,662 ⁶	2
Sweden.....	288	2	2	2
Switzerland.....	97,000	68,000	165,000	165,000 ⁵
Syria.....	—	1,200	4,500	1,000 ⁵
Thailand.....	2	87	71	200
Tunisia.....	8,900	8,985	—	2
Union of South Africa (sales).....	62,321	2	80,166	83,935
United Kingdom:				
Great Britain.....	1,347,888	1,715,060	1,773,733	1,175,570
Northern Ireland.....	71	—	—	—
United States.....	3,457,919	5,106,877	5,631,969	6,581,169
Total (estimate).....	8,500,000	12,800,000	13,350,000	15,000,000

1. In addition to the countries listed gypsum is produced in Angola, Brazil, Ethiopia, Iraq, Luxembourg, Mexico, Republic of the Philippines, U.S.S.R. and Yugoslavia, but production data are not available.

2. Data not available; estimate included in total.

3. Russian zone only.

4. Bizonal area.

5. Estimate.

6. Includes 1,200 tons produced in Spanish Morocco.

List of Firms in the Gypsum Mining Industry, 1949

Name of firm	Head office address	Plant location
NOVA SCOTIA:		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario.....	Wentworth
National Gypsum (Canada) Ltd.	325 Delaware Ave., Buffalo, New York U.S.A.	Walton, Dingwall
Victoria Gypsum Co. Ltd.	Little Narrows.....	Little Narrows
Windsor Plaster Co. Ltd.	Windsor.....	Brooklyn, Hants Co.
NEW BRUNSWICK:		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario.....	Hillsborough

List of Firms in the Gypsum Mining Industry, 1949 - Concluded

Name of firm	Head office address	Plant location
ONTARIO :		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario.....	Hagersville
Cayuga Gypsum Co. Ltd.	Cayuga.....	North Cayuga Tp.
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris	Caledonia
MANITOBA :		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario.....	Gypsumville
Western Gypsum Products Ltd.	503 McArthur Bldg., Winnipeg.....	Amaranth
BRITISH COLUMBIA :		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario.....	Falkland
Western Gypsum Products Ltd.	McArthur Bldg., Winnipeg, Manitoba.....	Mayook
Columbia Gypsum Products Inc.	Royal Trust Bldg., Vancouver	Windmere
Arthur Howard.....	Fort Steele.....	Mayook

Part II—Secondary Production—The Gypsum Products Industry, 1949

Ten Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of \$15,699,763 during 1949. This output was 11 percent over the 1948 total of \$14,186,714. The main products were gypsum wall-board, gypsum hardwall plaster, gypsum lath, gypsum tile and gypsum blocks.

The average number of employees in these works in 1949 was 1,160 who were paid \$2,726,218 in salaries and wages. Expenditures for fuel and electricity amounted to \$751,887 and materials used in manufacturing processes cost \$7,351,280, a total of \$8,103,167 for materials, fuel and electricity.

TABLE 11. Principal Statistics of the Gypsum Products Industry, 1940-1949

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works
			\$	\$	\$	\$
1940.....	9	362	425,023	157,299	1,630,819	4,110,795
1941.....	9	374	464,776	191,685	1,941,052	4,601,093
1942.....	9	412	554,665	217,007	2,251,434	4,829,962
1943.....	9	436	632,212	307,748	2,707,124	5,417,045
1944.....	9	569	856,261	297,606	2,659,683	5,077,477
1945.....	9	603	937,369	289,914	2,843,004	5,716,114
1946.....	9	905	1,298,693	412,031	4,076,812	8,755,090
1947.....	10	905	1,588,298	496,638	5,503,676	11,026,829
1948.....	10	951	1,976,533	644,094	7,055,419	14,186,714
1949.....	10	1,160 ¹	2,726,218 ¹	751,887	7,351,280	15,699,763

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.
1. See footnote to Table 12.

TABLE 12. Employees and their Earnings, 1948 and 1949

	1948	1949
Employees:		
Office and supervisory:		
Male..... No.	67	196
Female..... No.	7	68
Workmen:		
Male..... No.	849	874
Female..... No.	28	22
Total employees..... No.	951	1,160¹
Earnings:		
Office and supervisory..... \$	207,387	829,102
Workmen..... \$	1,769,146	1,897,116
Total earnings..... \$	1,976,533	2,726,218¹

1. Data relating to office and supervisory employees and their earnings include for the first time employees in Head Offices not located at plant.

TABLE 13. Output of the Gypsum Products Industry, 1948 and 1949

Product	Unit of measure	1948		1949	
		Quantity	Selling value at works	Quantity	Selling value at works
Gypsum wallboard	sq. ft.	237,700,167	\$ 7,213,425	230,561,517	\$ 7,330,859
Gypsum lath	sq. ft.	153,008,355	3,667,540	173,994,976	4,409,562
Gypsum hard wall plasters.....	ton	137,139	2,125,047	160,826	2,556,664
Other gypsum plasters	ton	22,114	513,248	28,433	695,544
All other products ¹	—	—	667,454	—	707,134
Total	—	—	14,186,714	—	15,699,763

1. Includes gypsum tile and blocks, etc.

TABLE 14. Production of Gypsum Wallboard and Gypsum Lath, 1945-1949

Year	Gypsum wallboard		Gypsum lath	
	Square feet	\$	Square feet	\$
1945.....	133,977,115	3,405,323	59,893,151	931,250
1946.....	203,361,505	5,502,593	74,984,596	1,297,745
1947.....	213,701,430	6,210,912	111,092,387	2,282,892
1948.....	237,700,167	7,213,425	153,008,355	3,667,540
1949.....	230,561,517	7,330,859	173,994,976	4,409,562

TABLE 15. Materials Used in the Gypsum Products Industry, 1948 and 1949

Material	1948		1949	
	Quantity	Cost at works	Quantity	Cost at works
Gypsum, crude.....	tons	\$	tons	\$
Gypsum, calcined (plaster of Paris).....	61,991	329,733	75,127	390,331
Paper	362,555	2,310,681	387,397	2,416,847
Starch or paste	32,385	3,208,017	31,745	3,191,599
Hair	1,628	237,100	1,906	263,250
Retarder.....	133	46,798	103	40,793
Sawdust and shavings	605	80,339	549	80,315
Containers, etc.....	—	6,035	—	6,670
All other materials	—	369,419	—	459,205
Total	—	467,297	—	502,270
		7,055,419		7,351,280

List of Firms in the Gypsum Products Industry, 1949

Name of firm	Head office address	Plant location
Windsor Plaster Co. Ltd.....	Windsor, Nova Scotia.....	Windsor, Nova Scotia
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario.....	Hillsborough, New Brunswick Hagersville, Ontario
Gypsum, Lime and Alabastine, Canada, Limited.....	Paris, Ontario	Montreal, Quebec Caledonia, Ontario Winnipeg, Manitoba Calgary, Alberta New Westminster, British Columbia
Western Gypsum Products Ltd.	503 McArthur Bldg., Winnipeg, Manitoba ...	Winnipeg, Manitoba Calgary, Alberta

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