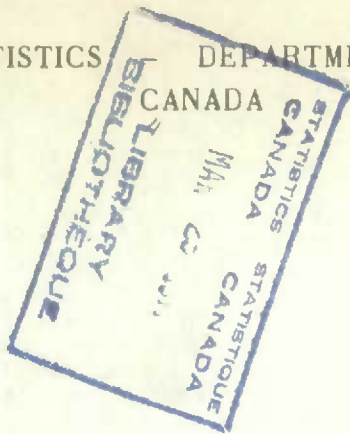


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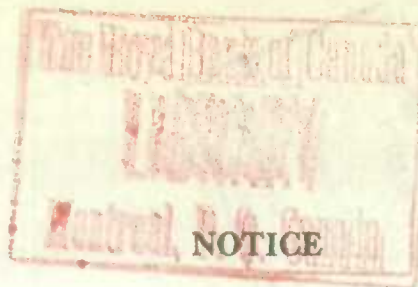
THE GYPSUM INDUSTRY

1950

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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 has been discontinued.

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

- A General Review of the Mining Industry, 25¢.
- B The Gold Mining Industry, 50¢.
- C The Silver-Lead-Zinc Mining Industry, 30¢.
- D The Nickel-Copper Mining, Smelting and Refining Industry, 25¢.
- E The Miscellaneous Metal Mining Industry, 30¢.
- F The Non-ferrous Smelting and Refining Industry, 25¢.
- G The Coal Mining Industry, 75¢.
- H The Natural Gas and Crude Petroleum Industry, 25¢.
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- J The Feldspar and Quartz Mining Industry, 25¢.
- K The Gypsum Industry, 15¢.
- L The Peat Industry, 25¢.
- M The Salt Industry, 25¢.
- N The Talc and Soapstone Industry, 25¢.
- O The Miscellaneous Non-Metal Mining Industry, 30¢.
- 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, 35¢.
- U Contract Diamond Drilling in the Mining Industry, 25¢.

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THE GYPSUM INDUSTRY

1950

PART I - Primary Production: The Gypsum Mining Industry, 1950

Shipments of gypsum by producers during 1950 amounted to 3,666,336 tons valued at \$6,707,506 compared with 3,014,249 tons worth \$5,423,690 in the preceding year. 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. Eight firms operated 13 quarries or mines in 1950.

In 1950 the gypsum mining industry employed 1,004 persons to whom \$2,412,698 were paid in salaries and wages. The cost of fuel was \$352,847 and

the value of process supplies and containers used was \$1,277,538. Purchased electricity totalled 12,608,847 k.w.h. at a cost of \$145,042. In addition about 1,211,620 k.w.h. of electricity were generated for own use at producing mines.

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, 1941-1950

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)
				\$	\$	\$	\$
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	5,642,831
1949	9	14	925	2,226,703	411,417	1,069,102	5,425,045
1950	8	13	1,004	2,412,698	497,889	1,274,480	6,710,564

1. Excludes containers (See Table 2).

TABLE 2. Production¹ of Gypsum, 1949 and 1950

	1949		1950	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Shipments by grades:				
Crude:				
Lump or mine run ²	12,621	21,444	21,759	48,373
Crushed ²	2,608,599	2,949,940	3,224,666	3,960,043
Fine ground	3,721	20,373	1,080	11,727
Calcined gypsum, sold and used ³	389,308	2,431,933	418,831	2,687,363
Total	3,014,249	5,423,690	3,666,336	6,707,506
Total crude gypsum mined and quarried ²	3,147,114	—	3,780,211	—
Total crude gypsum used to make calcined gypsum shown above ³	501,989	—	501,777	—
Value of containers	—	1,355	—	3,058

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 96,397 tons in 1949 and 114,072 tons in 1950 of crude 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. Production¹ of Gypsum, by Provinces, 1949 and 1950

Province	1949		1950	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Nova Scotia	2, 555, 795	2, 766, 005	3, 185, 199	3, 802, 786
New Brunswick	80, 436	371, 529	82, 641	371, 885
Ontario	203, 187	871, 467	199, 314	875, 217
Manitoba	94, 918	797, 723	114, 555	1, 037, 510
British Columbia	79, 913	616, 966	84, 627	620, 108
Total	3, 014, 249	5, 423, 690	3, 666, 336	6, 707, 506

TABLE 4. Production of Gypsum, 1941-1950

Year	Tons	Value	Year	Tons	Value
		\$			\$
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
1945	839, 781	1, 783, 290	1950	3, 666, 336	6, 707, 506

TABLE 5. Production of Gypsum, by Months, 1948-1950

Month	1948	1949	1950	Month	1948	1949	1950
	(tons)				(tons)		
January	141, 562	152, 998	157, 359	August	387, 120	356, 182	449, 646
February	40, 915	128, 567	141, 510	September	347, 081	380, 463	438, 878
March	82, 875	107, 273	137, 326	October	415, 110	387, 993	470, 778
April	226, 976	164, 934	200, 839	November	292, 209	250, 200	412, 529
May	275, 161	269, 187	275, 521	December	174, 990	173, 836	213, 167
June	356, 490	272, 483	357, 026	Total	3, 216, 809	3, 014, 249	3, 666, 336
July	476, 320	370, 133	411, 757				

TABLE 6. Imports and Exports of Gypsum, 1949 and 1950

	1949		1950	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Imports:				
Gypsum, crude, and gypsum ground, not calcined	566	20,309	848	24,346
Plaster of Paris and wall plaster	8,731	186,310	22,439	414,246
Total	-	206,619	-	438,592
Exports:				
Gypsum, crude	2,544,617	2,636,871	2,969,974	3,061,442
Plaster of Paris, wall plaster	165	4,624	102	3,186
Total	-	2,641,495	-	3,064,628

TABLE 7. Consumption of Gypsum in the Portland Cement Industry, 1941-1950

Year	Tons	Year	Tons
1941	49,031	1946	65,431
1942	49,816	1947	81,946
1943	47,034	1948	119,821
1944	42,672	1949	137,785
1945	45,883	1950	137,170

TABLE 8. Consumption of Gypsum in the Gypsum Products Industry, 1941-1950

Year	Crude	Calcined	Year	Crude	Calcined
	(tons)			(tons)	
1941	30,978	157,488	1946	46,617	253,617
1942	20,742	149,885	1947	52,183	298,950
1943	17,489	162,273	1948	61,991	362,555
1944	26,683	165,750	1949	75,127	387,397
1945	10,147	194,351	1950	170,280	348,851

TABLE 9. Employees and their Earnings, by Provinces, 1949 and 1950

Province	Average number of employees					Earnings		
	Administrative and office		Workmen		Total	Administrative and office	Workmen	Total
	Male	Female	Male	Female				
						\$	\$	\$
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
1950								
Nova Scotia	31	7	584	4	626	125,682	1,336,234	1,461,916
Other provinces	14	1	363	—	378	42,761	908,021	950,782
Canada	45	8	947	4	1,004	168,443	2,244,255	2,412,698

TABLE 10. Number of Workmen on Payroll on the Last Day of Each Month, 1949 and 1950

Month	1949					1950				
	Mine			Mill		Mine			Mill	
	Surface		Under-ground	Male	Female	Surface		Under-ground	Male	Female
	Male	Female				Male	Female			
January	452	1	178	216	1	361	2	162	225	2
February	382	1	167	174	1	341	2	161	220	2
March	384	1	162	187	1	382	2	161	222	2
April	450	1	158	205	1	430	2	160	223	2
May	527	1	162	262	1	538	2	162	350	2
June	530	1	156	254	1	548	2	159	369	2
July	516	1	156	238	1	536	2	160	373	2
August	515	1	149	255	1	536	2	166	359	2
September	543	1	148	325	1	567	2	170	355	2
October	570	1	160	322	1	570	2	168	353	2
November	508	1	151	224	1	509	2	167	282	2
December	442	1	160	153	1	489	2	167	261	2
Average	484	1	158	235	1	484	2	164	299	2

TABLE 11. World Production of Gypsum, by Countries, 1945-1949
(From a report published by the United States Bureau of Mines)

Country ¹	1945	1946	1947	1948	1949
	(metric tons)				
Algeria	22,250	28,600	38,345	33,258	2
Anglo-Egyptian Sudan	2,106	3,063	350	3,045	2
Argentina ²	91,504	2	2	2	2
Australia:					
New South Wales	23,137	45,136	65,098	75,304	2
South Australia	66,653	91,878	108,672	149,849	150,069
Victoria	11,755	15,184	23,262	29,768	31,482
Western Australia	7,349	15,596	20,608	25,932	26,323
Austria	2	26,844	14,753	2	2
Brazil	2	2	2	2	50,857
Canada	753,615	1,838,895	2,362,365	3,164,211	2,716,820
Ceylon	59	33	69	2	37
Chile	47,162	92,400	100,800	35,056	2
China	2	2	50,000	55,000	2
Columbia	2	2	17,372	4,200	2
Cuba ⁴	10,400	14,300	14,900	16,500	13,880
Cyprus (exports)	2,608	15,464	7,844	19,500	25,788
Dominican Republic	3,258 ⁵	10,974 ⁵	13,393	7,304	2
Ecuador	—	—	—	410	486
Egypt	96,565	78,316	72,337	95,243	2
Finland	2	2	2	1,711	2
France	724,000	1,746,375	2,229,940	2	2
French Morocco	8,740	15,135	17,285	2	15,425
Germany	2	163,800 ⁶	150,700 ⁶	316,000 ⁶	515,300 ⁶
Greece	—	5,150	850	2	2
India	92,229	77,643	51,381	107,445	2
Ireland	23,400	37,894	36,415	2	2
Israel-Jordan	7,542	14,512	2	2	2
Italy	162,080	236,104	298,224	2	2
Japan	83,421	49,763	61,555	113,754	117,123
Kenya	209	508	659	1,016	181
New Caledonia	8,030	6,750	2,705	779	17,119
Pakistan	2	2	16,121	2	16,257 ⁷
Peru	42,223	43,391	41,330	46,716	2
Philippines	2	—	—	818	2,710
Poland	2	9,787	14,917	14,183	2
Portugal	11,687	27,680	33,868	42,842	2
Rumania	2	2	2	2	2
Spain	1,038,616	1,098,013 ⁸	1,337,662	1,423,728 ⁸	1,293,552
Sweden	288	—	—	2	2
Switzerland	97,000	68,000	165,000	165,000 ⁷	80,000 ⁷
Syria	—	1,200	4,500	1,000 ⁷	1,400
Thailand	2	87	71	200	154
Tunisia	8,900	8,985	17,650	19,130	22,066
Union of South Africa (sales)	66,085	66,228	80,166	78,625	88,232
United Kingdom:					
Great Britain	1,347,888	1,715,060	1,773,733	1,175,570	2
Northern Ireland	71	—	—	—	2
United States	3,457,919	5,106,877	5,631,969	6,581,169	5,994,752
Venezuela	2	2	2	2	3,042
Total (estimate)	8,600,000	13,000,000	15,000,000	16,500,000	16,425,000

1. In addition to the countries listed gypsum is produced in Angola, Belgian Congo Ethiopia, Iraq, Luxembourg, Mexico, 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

6. Bizonal area.

7. Estimate.

8. Includes Spanish Moroccan production: 1946, 1,219 tons; 1948, 1,829 tons.

List of Firms in the Gypsum Mining Industry, 1950

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	McKay Section, Hants Co.
New Brunswick:		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario.....	Hillsborough
Ontario:		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario	Hagersville
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris	Caledonia
Manitoba:		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario	Gypsumville
Western Gypsum Products Ltd.	503 Childs Bldg., Winnipeg	Admiral
British Columbia:		
Allan Howard	Fort Steele	Mayook
Columbia Gypsum Products Inc.	422 Symons Bldg., Spokane, Wash.....	Windmere
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario	Falkland
Western Gypsum Products Ltd.	McArthur Bldg., Winnipeg, Manitoba.	Mayook

Part II. Secondary Production: The Gypsum Products Industry, 1950

Ten Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of \$17,879,508 during 1950. This output was 14 per cent over the 1949 total of \$15,699,763. The main products were gypsum wall-board, gypsum hardwall plaster, gypsum lath, gypsum tile and gypsum blocks.

The number of employees in these works in 1950 was 1,158 who were paid \$2,824,882 in salaries and wages. Expenditures for fuel and electricity amounted to \$673,083 and materials used in manufacturing processes cost \$7,974,202 a total of \$8,647,285 for materials, fuel and electricity.

TABLE 12. Principal Statistics of the Gypsum Products Industry, 1941-1950

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
			\$	\$	\$	\$
1941.....	9	374	464,776	191,685	1,941,052	4,661,093
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
1950.....	10	1,158 ¹	2,824,882 ¹	673,083	7,974,202	17,879,508

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 13.

TABLE 13. Employees and their Earnings, 1949 and 1950

	1949	1950
Employees:		
Office and supervisory:		
Male..... No.	196	208
Female..... No.	68	76
Workmen:		
Male..... No.	874	842
Female..... No.	22	32
Total employees..... No.	1,160¹	1,158¹
Earnings:		
Office and supervisory..... \$	829,102	945,085
Workmen..... \$	1,897,116	1,879,797
Total earnings..... \$	2,726,218¹	2,824,882¹

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

TABLE 14. Output of the Gypsum Products Industry, 1949 and 1950

Product	1949		1950	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Gypsum wallboard sq. ft.	230,561,517	7,330,859	230,684,144	7,578,826
Gypsum lath sq. ft.	173,994,976	4,409,562	214,714,308	5,858,077
Gypsum hard wall plasters ton	160,826	2,556,664	164,320	2,734,573
Other gypsum plasters ton	28,433	695,544	30,441	844,897
All other products ¹	—	707,134	—	866,135
Total	—	15,699,763	—	17,879,508

1. Includes gypsum tile and blocks, etc.

TABLE 15. Production of Gypsum Wallboard and Gypsum Lath, 1945-1950

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
1950	230,684,144	7,578,826	214,714,308	5,855,077

TABLE 16. Materials Used in the Gypsum Products Industry, 1949 and 1950

Material	1949		1950	
	Quantity	Cost at works	Quantity	Cost at works
	tons	\$	tons	\$
Gypsum, crude	96,447	655,331	113,100	655,539
Gypsum, calcined (plaster of Paris)	366,077	2,151,847	406,031	2,253,856
Paper	31,745	3,191,599	36,699	3,537,938
Starch or paste	1,906	263,250	1,436	240,482
Hair	103	40,793	71	28,533
Retarder	549	80,315	687	84,279
Sawdust and shavings	—	6,670	—	8,015
Containers, etc.	—	459,205	—	502,216
All other materials	—	502,270	—	663,344
Total	—	7,351,280	—	7,974,202

List of Firms in the Gypsum Products Industry, 1950

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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