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THE GYPSUM INDUSTRY
1952

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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
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- 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 GYPSUM INDUSTRY

1952

Part I - Primary Production: The Gypsum Mining Industry, 1952

The producers of crude gypsum shipped 3,590,783 tons valued at \$6,538,074 during 1952. In the previous year the shipments were 3,802,692 tons valued at \$5,880,853.

Nova Scotia was the leading province, with shipments amounting to 2,969,312 tons. Shipments from Ontario totalled 278,992 tons; from Manitoba, 130,934 tons; from New Brunswick, 110,183 tons and from British Columbia, 92,702 tons. The Atlantic Gypsum Limited, at Humbermouth, Newfoundland, commenced operations in April, 1952, and shipped 8,660 tons during the year.

The gypsum mining industry employed 1,061 persons, to whom \$2,979,091 were distributed in salaries and wages. The cost of fuel was \$328,921, and the value of process supplies and containers was \$1,843,824. Purchased electricity totalled 14,959,524 k.w.h. at a cost of \$188,938. In addition,

935,980 k.w.h. of electricity were generated for their own use by the firms in the industry.

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. Usually the calcining units are associated with the manufacturing operations.

Production data for the gypsum mining industry in 1951 and 1952 are not quite comparable with those for previous years. Formerly the calcining of gypsum was considered to be part of the primary industry, now it is included with the secondary operations or in the gypsum products industry. This change in procedure credits the mining section of the industry with a slightly greater tonnage, but a lower valuation than by the former method.

TABLE 1. Principal Statistics for the Gypsum Mining Industry, 1943-1952

Year	Number of firms	Number of mines or quarries	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies and containers	Gross selling value of products f.o.b. shipping points (including containers)	Net ¹ production
				\$	\$	\$	\$	\$
1943.....	6	12	438	617,780	201,980	46,063	1,381,468	1,133,425
1944.....	8	12	328	490,872	143,743	239,198	1,511,978	1,124,037
1945.....	7	12	434	647,287	184,619	391,026	1,783,290	1,207,645
1946.....	8	14	753	1,246,673	260,479	546,092	3,696,727	2,890,156
1947.....	8	13	908	1,695,711	364,115	686,206	4,782,429	3,732,108
1948.....	9	14	995	2,272,358	481,392	1,390,476	5,642,881	3,771,013
1949.....	9	14	925	2,226,703	411,417	1,070,457	5,425,045	3,943,171
1950.....	8	13	1,004	2,412,698	497,889	1,277,538	6,710,564	4,935,137
1951.....	8	13	1,018	2,648,803	455,915	1,704,669	5,881,546	3,720,962
1952.....	9	14	1,061	2,979,091	517,859	1,843,824	6,538,074	4,176,391

1. Gross production less cost of process supplies, etc., fuel and electricity.

TABLE 2. Producers' Shipments of Gypsum, 1951 and 1952

	1951		1952	
	Tons	Value f.o.b. shipping points	Tons	Value f.o.b. shipping points
		\$		\$
Crude:				
Lump or mine-run.....	83,398	152,563	93,512	182,750
Crushed ¹	3,669,142	5,413,547	3,386,448	5,706,495
Fine-ground.....	50,152	304,743	110,823	648,829
Total.....	3,802,692	5,880,853	3,590,783	6,538,074
Total crude gypsum mined and quarried¹.....	3,928,377	—	3,553,917	—
Crude gypsum calcined in firms' own mills in Canada	537,153	—	534,541	—
Value of containers.....	—	693	—	844

1. Includes some anhydrite quarried in Nova Scotia.

TABLE 3. Producers' Shipments of Gypsum, by Provinces, 1951 and 1952

Province	1951		1952	
	Tons	Value f.o.b. shipping points	Tons	Value f.o.b. shipping points
		\$		\$
Newfoundland	—	—	3,660	54,881
Nova Scotia	3,190,030	4,107,822	2,969,312	4,373,842
New Brunswick	109,469	328,407	110,183	333,638
Ontario	262,581	672,276	278,992	1,060,429
Manitoba	134,704	509,276	130,934	473,841
British Columbia	105,908	263,072	92,702	241,443
Total	3,802,692	5,880,853	3,590,783	6,538,074

TABLE 4. Producers' Shipments of Gypsum, 1943-1952

Year	Tons	Value f.o.b. shipping points	Year	Tons	Value f.o.b. shipping points
		\$			\$
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
1946	1,810,937	3,671,503	1951	3,802,692	5,880,853
1947	2,496,984	4,734,853	1952	3,590,783	6,538,074

Note. Figures for 1951 and 1952 are not exactly comparable with those for prior years. See text for change in method of compilation.

TABLE 5. Producers' Shipments of Gypsum, by Months, 1950-1952

Month	1950	1951	1952	Month	1950	1951	1952
	(Tons)				(Tons)		
January	157,359	198,272	146,482	August	449,646	492,038	469,775
February	141,510	183,334	161,862	September	438,878	479,746	426,546
March	137,326	184,077	175,006	October	470,778	449,104	384,691
April	200,839	227,392	190,397	November	412,529	313,919	236,019
May	275,521	270,554	292,691	December	213,167	188,096	199,711
June	357,026	349,224	459,038				
July	411,757	466,936	448,565	Total	3,666,336	3,802,692	3,590,783

TABLE 6. Imports and Exports of Gypsum, 1951 and 1952

	1951		1952	
	Tons	Value	Tons	Value
		\$		\$
Imports:				
Gypsum, crude, and gypsum ground, not calcined	1,700	24,347	649	19,402
Plaster of Paris and wall plaster	15,678	330,036	12,667	269,190
Total	—	354,383	—	288,592
Exports:				
Gypsum, crude	3,028,336	3,128,263	2,763,492	2,847,463
Plaster of Paris, wall plaster	170	5,578	327	8,047
Total	—	3,133,841	—	2,855,510

TABLE 7. Consumption of Gypsum in the Portland Cement Industry, 1943-1952

Year	Tons	Year	Tons
1943	47,034	1948	119,821
1944	42,672	1949	137,785
1945	45,883	1950	137,170
1946	65,431	1951	146,603
1947	81,946	1952	161,210

TABLE 8. Consumption¹ of Gypsum in the Gypsum Products Industry, 1943-1952

Year	Crude	Calcined	Year	Crude	Calcined
	(tons)			(tons)	
1943	17,489	162,273	1948	61,991	362,555
1944	26,683	165,750	1949	96,447	366,077
1945	10,147	194,351	1950	113,100	406,031
1946	46,617	253,617	1951	610,477	21,231
1947	52,183	298,950	1952	630,940	—

1. See text on page 3 for change in method of compilation affecting disposition of crude and calcined gypsum.

TABLE 9. Employees and Their Earnings, by Provinces, 1951 and 1952

Province	Average number of employees					Man-hours worked	Earnings		
	Administrative and office		Workmen		Total		Administrative and office	Workmen	Total
	Male	Female	Male	Female					
							\$	\$	\$
1951									
Nova Scotia	32	7	616	2	657	1,652,416	130,324	1,518,420	1,648,744
Other provinces	17	4	340	—	361	869,607	67,156	932,903	1,000,059
Canada	49	11	956	2	1,018	2,522,023	197,480	2,451,323	2,648,803
1952									
Nova Scotia	33	7	612	2	654	1,430,386	158,633	1,655,280	1,813,913
Other provinces	13	—	394	—	407	1,061,901	39,479	1,125,699	1,165,178
Canada	46	7	1,006	2	1,061	2,542,287	198,112	2,780,979	2,979,091

TABLE 10. Number of Workmen on Payroll on the Last Day of Each Month, 1951 and 1952

Month	1951						1952					
	Mine			Mill		Total	Mine			Mill		Total
	Surface		Under-ground	Male	Female		Surface		Under-ground	Male	Female	
	Male	Female				Male	Female					
January	439	1	198	201	1	840	401	1	199	209	1	811
February	419	1	197	192	1	810	398	1	205	205	1	810
March	449	1	198	193	1	842	435	1	213	209	1	859
April	498	1	199	207	1	906	475	1	208	206	1	891
May	569	1	201	293	1	1,065	548	1	200	270	1	1,020
June	585	1	208	288	1	1,083	579	1	203	342	1	1,126
July	562	1	205	308	1	1,077	582	1	209	357	1	1,150
August	547	1	207	311	1	1,067	583	1	230	357	1	1,172
September	548	1	201	292	1	1,043	585	1	236	331	1	1,154
October	571	1	208	300	1	1,081	577	1	234	339	1	1,152
November	508	1	208	209	1	927	509	1	238	232	1	981
December	402	1	200	116	1	720	475	1	244	210	1	931
Average	511	1	202	243	1	958	514	1	218	274	1	1,008

Table 11. World Production of Gypsum, by Countries, 1947-1950

(From a report published by the United States Bureau of Mines)

Country ¹	1947	1948	1949	1950
	(metric tons)			
Algeria	38,345	33,258	31,881	46,097
Anglo-Egyptian Sudan	350	3,045	1,496	2
Argentina ³	2	2	2	2
Australia	217,639	280,853	291,854	204,581 ⁴
Austria	15,096	26,376	2	2
Belgian Congo	—	—	—	7,190
Brazil	2	2	50,857	2
Bulgaria ⁵	5,000	5,000	2	2
Canada	2,362,365	3,164,211	2,854,999	3,256,398
Ceylon	69	170	37	2
Chile	100,800	35,056	60,303	2
China	50,000	55,000 ⁵	2	2
Colombia	17,372	4,200	2,760 ⁵	1,930
Cuba ⁵	14,900	16,500	13,880	15,500
Cyprus (exports).....	7,844	19,500	25,788	65,485
Dominican Republic.....	13,393	7,304	18,157	2
Ecuador	—	410	486	441 ⁵
Egypt	72,337	95,243	2	2
Finland	2	1,711	2	2
France	2,229,940	2,254,181	2	2,100,000
French Morocco.....	17,285	30,136	15,425	2
Germany-Federal Republic	150,700 ⁶	316,600 ⁶	515,300 ⁶	344,000 ^{5,6}
Greece	850	2	2	2
India	51,381	107,445	142,190	2
Ireland	36,415	62,693	2	2
Israel-Jordan	2	2	2	2
Italy	298,224	2	2	2
Jamaica	—	7,112	2	2
Japan	61,555	113,754	117,123	114,505
Kenya	659	1,016	181	610
New Caledonia	2,705	779	17,119	15,200
Pakistan.....	16,121	6,361	15,645	19,000 ⁵
Peru	41,330	46,716	37,419	2
Philippines	—	818	2,710	2,883
Poland	14,917	14,183	26,361	2
Portugal	33,868	42,842	43,060	2
Spain	1,337,662	1,423,728 ⁷	1,293,552	2,251,831
Sweden	—	—	—	2
Switzerland	165,000	165,000 ⁵	80,000 ⁵	80,000 ⁵
Syria	4,500	1,000 ⁵	1,400	2,000
Thailand.....	71	200	154	2
Tunisia	17,650	19,130	22,066	2
Union of South Africa (sales).....	80,166	78,625	88,232	103,707
United Kingdom:				
Great Britain	1,773,733	1,175,570	2	2
North Ireland	—	—	—	2
United States.....	5,631,969	6,581,169	5,994,752	7,432,186
Venezuela ⁸	3,451	2,406	3,042	2,050
Total (estimates)¹.....	16,400,000	18,300,000	17,700,000	20,700,000

1. In addition to the countries listed, gypsum is produced in Angola, Ethiopia, Iraq, Luxembourg, Mexico, Romania, U.S.S.R. and Yugoslavia, but production data are not available. Estimates for these countries are included in the total.

2. Data are not available; estimate included in total.

3. Rail and river shipments.

4. Excluding New South Wales

5. Estimates.

6. Crude production estimates based on the following calcined figures: 1946—136,500 tons; 1947—125,600 tons; 1948—263,822 tons; 1949—429,400 tons; 1950—286,592 tons.

7. Includes Spanish Morocco production: 1946—1,219 tons; 1948—1,829 tons.

8. Production in government quarries only.

List of Firms in the Gypsum Mining Industry, 1952

Name of firm	Head office address	Plant location
Newfoundland:		
Atlantic Gypsum Ltd.	Box 61, Corner Brook	Humbermouth
Nova Scotia:		
Canadian Gypsum Co. Ltd.	Box 110, Windsor	Wentworth
National Gypsum (Canada) Ltd.	325 Delaware Ave., Buffalo, New York, U.S.A.	Walton, Dingwall
Victoria Gypsum Co. Ltd.	Little Narrows, Cape Breton	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	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	Amaranth
British Columbia:		
Allan Howard	Fort Steele	Mayook
Columbia Gypsum Products Inc.	425 Symons Bldg., Spokane, Washington, U.S.A.	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, 1952

Eleven Canadian factories, operated by 5 companies, manufactured gypsum products having a factory selling value of \$18,355,812 during 1952. This output was a decline of 2.8 per cent from the 1951 total of \$18,886,007. The main products were gypsum wallboard, gypsum hardwall plaster, gypsum lath, gypsum tile and gypsum blocks.

The number of employees in these works in 1952 was 1,230, who were paid \$3,708,426 in salaries and wages. Expenditures for fuel and electricity amounted to \$803,007 and materials used in manufacturing processes cost \$8,115,956, a total of \$8,918,963 for materials, fuel and electricity.

TABLE 12. Principal Statistics of the Gypsum Products Industry, 1943-1952

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	Net ² production
			\$	\$	\$	\$	\$
1943	9	436	632,212	307,748	2,707,124	5,417,045	2,402,173
1944	9	569	856,261	297,606	2,659,683	5,077,477	2,120,188
1945	9	603	937,369	289,914	2,843,004	5,716,114	2,583,196
1946	9	905	1,298,693	412,031	4,076,812	8,755,090	4,266,247
1947	10	905	1,588,298	496,638	5,503,676	11,026,829	5,026,515
1948	10	951	1,976,533	644,094	7,055,419	14,186,714	6,487,201
1949	10	1,160 ¹	2,726,218 ¹	751,887	7,351,280	15,699,763	7,596,596
1950	10	1,158 ¹	2,824,882 ¹	673,083	7,974,202	17,879,508	9,232,223
1951	10	1,138 ¹	3,304,295 ¹	845,020	8,463,839	18,886,007	9,577,148
1952	11	1,230 ¹	3,708,426 ¹	803,007	8,115,956	18,355,812	9,436,849

1. See footnote Table 13.

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

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.

TABLE 13. Employees and Their Earnings, 1951 and 1952

	1951	1952
Employees:		
Office and supervisory:		
Male..... No.	203	246
Female..... No.	83	93
Workmen:		
Male..... No.	828	879
Female..... No.	24	12
Total employees..... No.	1,138¹	1,230
Earnings:		
Office and supervisory..... \$	1,016,178	1,259,875
Workmen..... \$	2,288,117	2,448,551
Total earnings..... \$	3,304,295¹	3,708,426¹

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, 1951 and 1952

Product	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Gypsum wallboard..... sq. ft.	232,312,775	7,876,750	225,409,932	7,869,907
Gypsum lath..... sq. ft.	228,645,066	6,553,202	202,987,638	6,004,908
Gypsum hard wall plasters..... tons	164,773	2,721,020	164,861	2,836,916
Other gypsum plasters..... tons	37,582	725,511	37,866	725,597
All other products ¹ -	-	1,009,518	-	918,484
Total -	-	18,886,007	-	18,355,812

1. Includes gypsum tile and blocks, etc.

TABLE 15. Production of Gypsum Wallboard and Gypsum Lath, 1946-1952

Year	Gypsum wallboard		Gypsum lath	
	Square feet	\$	Square feet	\$
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
1951.....	232,312,775	7,876,750	228,645,066	6,553,202
1952.....	225,409,932	7,869,907	202,987,638	6,004,908

TABLE 16. Materials Used in the Gypsum Products Industry, 1951 and 1952

Material	1951		1952	
	Quantity	Cost at works	Quantity	Cost at works
	tons	\$	tons	\$
Gypsum, crude.....	610,477	2,227,847	630,940	2,552,439
Paper.....	38,513	4,238,123	34,479	3,889,275
Starch or paste.....	1,548	268,250	1,340	239,855
Hair.....	80	26,388	74	21,303
Retarder.....	739	96,612	569	91,622
Sawdust and shavings.....	-	5,996	-	684
Containers, etc.....	-	567,168	-	598,120
All other materials.....	-	1,033,455	-	722,658
Total	-	8,463,839	-	8,115,956

Note: See text on page 3 for change in method of compilation.

List of Firms in the Gypsum Products Industry, 1952

Name of firm	Head office address	Plant location
Atlantic Gypsum Ltd.....	P.O. Box 61, Corner Brook, Newfoundland	Humbermouth, Newfoundland
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 Childs Bldg., Winnipeg, Manitoba	Winnipeg, Manitoba Calgary, Alberta

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