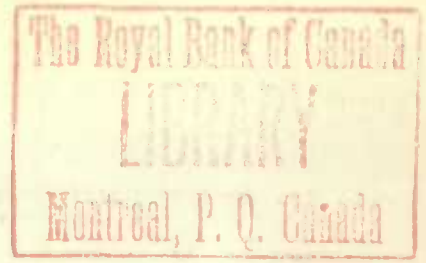
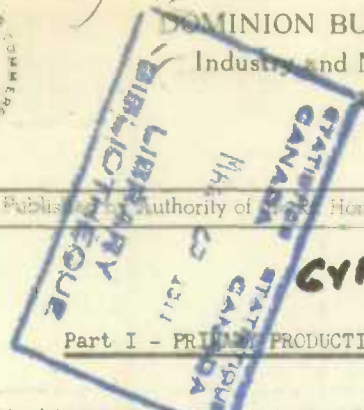


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GYP SUM INDUSTRY

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Part I - PRIMARY PRODUCTION: THE GYPSUM MINING INDUSTRY, 1948

Producers' shipments of gypsum during 1948 totalled 3,216,809 tons valued at \$5,548,245 compared with 2,496,984 tons valued at \$4,734,853 in the preceding year. Output consisted of various grades of crude gypsum and crude anhydrite as shipped from the quarries or mines, together with the calcined gypsum used in or shipped from the primary plants.

The quantity of crude mineral mined or quarried in 1948 included 3,436,075 tons of gypsum and 51,889 tons of anhydrite. The primary plants calcined 430,581 tons of crude gypsum during the year.

The gypsum mining industry operated 14 quarries or mines in 1948 and paid to 995 employees a total of \$2,272,358 in wages and salaries. The cost of fuel, electricity, process supplies and containers amounted to \$1,871,868 and the net value of production was \$3,771,013.

Exports in 1948 included 2,617,271 tons of crude gypsum valued at \$2,702,870; 742 tons of plaster of Paris or wall plaster worth \$18,852; and 10,794 tons of ground gypsum valued at \$16,741. Imported to Canada were 1,031 tons of gypsum worth \$21,577 and 9,953 tons of plaster of Paris and wall plaster valued at \$201,806.

Some of the Canadian gypsum mining companies restrict their operations in the Dominion to the production and sale of crude gypsum or anhydrite while others, in addition to marketing various grades of crude gypsum, produce a 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, 1939-1948

Year	Number of firms	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross selling value of products including containers
				\$	\$	\$	\$
1939	10	17	714	692,158	193,488	105,831	1,935,127
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

Table 2 - PRODUCTION (a) OF GYPSUM, 1947 and 1948

	1947		1948	
	Quantity tons	Value \$	Quantity tons	Value \$
Shipments by grades -				
Crude - Lump or mine run (c)	75,861	138,367	31,678	65,196
Crushed (c)	2,120,645	2,321,669	2,831,106	3,179,596
Fine ground	561	5,618	1,482	10,450
Calcined gypsum, sold and used (b)	299,917	2,269,199	352,543	2,293,003
TOTAL	2,496,984	4,734,853	3,216,809	5,548,245

Note: This report was prepared in the Mining, Metallurgical and Chemical Section.

(18 Jan 51)

Table 2 - PRODUCTION (a) OF GYPSUM, 1947 and 1948 (Concluded)

	1947		1948	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Shipments by provinces -				
Nova Scotia	2,137,704	2,303,275	2,795,848	3,028,646
New Brunswick	65,939	711,535	61,534	338,405
Ontario	155,249	671,548	182,303	770,004
Manitoba	79,356	525,197	94,698	336,483
British Columbia	58,736	523,298	82,426	574,707
TOTAL	2,496,984	4,734,853	3,216,809	5,548,245
Total gypsum mined and quarried (c)	2,604,075	...	3,487,964	...
Total gypsum calcined (b)	383,072	...	430,581	...

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

(b) 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.

(c) Includes some anhydrite quarried in Nova Scotia.

Table 3 - PRODUCTION OF CRUDE AND CALCINED GYPSUM, 1934-1948

Year	Tons	Value	Year	Tons	Value
		\$			\$
1934	461,237	863,776	1942	566,166	1,254,182
1935	541,864	932,203	1943	466,848	1,381,468
1936	833,822	1,278,971	1944	596,164	1,511,978
1937	1,047,187	1,540,483	1945	839,781	1,783,290
1938	1,008,799	1,502,265	1946	1,810,937	3,671,503
1939	1,421,934	1,935,127	1947	2,496,984	4,734,853
1940	1,448,788	2,065,933	1948	3,216,809	5,548,245
1941	1,593,406	2,248,428			

Table 4 - PRODUCTION OF CRUDE AND CALCINED GYPSUM, BY MONTHS, 1947 and 1948

Month	1947	1948	Month	1947	1948
	(tons)			(tons)	
January..	92,020	141,562	July	321,286	476,320
February..	78,887	40,915	August...	327,882	387,120
March ...	102,089	82,875	September	400,212	347,081
April ...	86,491	226,976	October..	261,109	415,110
May	154,877	275,161	November.	237,634	292,209
June	265,429	356,490	December.	169,068	174,990
			TOTAL..	2,496,984	3,216,809

Gypsum

- 3 -

Table 5 - IMPORTS AND EXPORTS OF GYPSUM, 1947 and 1948

	1947		1948	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Imports -				
Gypsum, crude, and gypsum ground, not calcined	8,875	75,856	1,031	21,577
Plaster of Paris and wall plaster	10,071	173,762	9,953	201,806
TOTAL .....	...	249,618	...	223,383
Exports -				
Gypsum, crude	1,936,990	2,043,055	2,617,271	2,702,870
Plaster of Paris, wall plaster	1,423	29,364	742	18,852
Gypsum, ground .....	...	...	10,794	16,741
TOTAL .....	...	2,072,419	...	2,738,463

Table 6 - CONSUMPTION OF GYPSUM IN THE PORTLAND CEMENT INDUSTRY, 1939-1948

Year	Tons	Year	Tons
1939	31,492	1944	42,672
1940	38,903	1945	45,883
1941	49,031	1946	65,431
1942	49,816	1947	81,946
1943	47,034	1948	119,821

Table 7 - CONSUMPTION OF GYPSUM IN THE GYPSUM PRODUCTS INDUSTRY, 1939-1948

Year	Crude		Calcined		Year	Crude		Calcined	
	(tons)		(tons)			(tons)		(tons)	
1939	19,946	105,397	1944	26,683	165,750				
1940	21,611	125,917	1945	10,147	194,351				
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				

Table 8 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1947 and 1948

Province	Average number of employees					Salaries	Wages	Total salaries and wages
	On salaries		On wages		Total			
	Male	Female	Male	Female				
1947								
Nova Scotia ...	21	6	521	3	551	71,179	932,766	1,003,945
Other provinces	16	3	340	...	313	39,290	652,476	691,766
CANADA	35	9	861	3	864	110,469	1,585,242	1,695,711
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

Table 9 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE LAST DAY OF EACH MONTH, 1947 and 1948

Month	1947					1948			
	Mine		Under-ground	Mill		Mine		Mill	
	Surface	Female		Male	Female	Surface	Under-ground	Male	Female
	Male	Female			Male				
January	286	2	141	212	1	306	181	237	1
February	283	2	141	211	1	262	187	217	1
March	314	2	142	242	1	340	184	263	1
April	348	2	144	266	1	406	178	229	1
May	428	2	139	344	1	491	177	376	1
June	447	2	145	352	1	504	172	387	1
July	442	2	151	400	2	525	162	370	1
August	463	2	141	400	2	531	164	401	1
September	467	2	155	418	2	547	168	413	1
October	457	2	157	377	1	581	190	393	1
November	396	2	163	350	1	521	196	259	1
December	345	2	171	271	1	505	201	160	1
AVERAGE ...	389	2	151	321	1	461	179	304	1

Table 10 - FUEL AND ELECTRICITY USED, 1947 and 1948

Kind	Unit of measure	1947		1948	
		Quantity	Cost at works	Quantity	Cost at works
Coal--Bituminous--Canadian	ton	7,607	86,222	9,405	112,229
. Imported	ton	8,925	100,176	5,312	58,283
Anthracite	ton	...	...	121	1,830
Lignite	ton	1,395	6,134	1,521	9,180
Coke	ton	1,069	16,019	1,090	18,863
Gasoline	Imp.gal.	163,056	46,421	174,963	49,245
Kerosene	Imp.gal.	3,560	1,854	1,786	413
Fuel oil	Imp.gal.	311,916	35,316	347,854	115,212
Wood	cord	93	670	87	632
Gas - Natural	M cu.ft.	...	...	520	260
Electricity purchased	K.W.H.	7,429,113	70,803	9,960,232	115,245
TOTAL .....	...	...	364,115	...	481,392
Electricity generated for own use	K.W.H.	4,249,878	...	1,447,400	...

Table 11 - POWER EQUIPMENT INSTALLATION, 1948

	Ordinarily in use		In reserve or idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines	1	200	4	1,425
Diesel engines	60	7,867	1	115
Gasoline, gas and oil engines, other than Diesel engines	35	1,815	1	100
Electric motors -				
(a) Operated by purchased power	240	7,013	8	290
TOTAL	336	16,895	14	1,930
(b) Operated by power generated by the establishment	40	1,685	1	150
Stationary power boilers .....	...	...	2	300
Motor-generator sets	7	817	1	200

LIST OF FIRMS IN THE GYPSUM MINING INDUSTRY - 1948

Name of Firm	Head office address	Plant location
<u>Nova Scotia -</u>		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario	Wentworth
Conn. Adamant Plaster Co.	10 River St., New Haven, Conn., U.S.A.	Cheverie
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.
<u>New Brunswick -</u>		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ontario	Hillsborough
<u>Ontario -</u>		
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
<u>Manitoba -</u>		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario	Gypsumville
Western Gypsum Products Ltd.	503 McArthur Bldg., Winnipeg	Amaranth
<u>British Columbia -</u>		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ontario	Falkland
Western Gypsum Products Ltd.	McArthur Bldg., Winnipeg, Manitoba	Mayook
Columbia Gypsum Products Inc. Arthur Howard	Royal Trust Bldg., Vancouver Fort Steele	Windmere Mayook

Part II - SECONDARY PRODUCTION--THE GYPSUM PRODUCTS INDUSTRY, 1948

Ten Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of \$14,186,714 during 1948. This output was 22 per cent over the 1947 total of \$11,026,829. The main products were gypsum wallboard, gypsum hardwall plaster, gypsum lath, gypsum tile and gypsum blocks.

The average number of employees in these works in 1948 was 951, who were paid \$1,976,533 in salaries and wages. Expenditures for fuel and electricity amounted to \$644,094, and materials used in manufacturing processes cost \$7,055,419.

Table 12 - PRINCIPAL STATISTICS OF THE GYPSUM PRODUCTS INDUSTRY, 1947 and 1948

	1947	1948
Number of establishments	10	10
Number of employees	905	951
Salaries and wages	\$ 1,588,298	1,976,533
Cost of fuel and electricity	\$ 486,638	644,094
Cost of materials at works	\$ 5,503,676	7,055,419
Selling value of products at works	\$ 11,026,829	14,186,714

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, SALARIES AND WAGES, 1947 and 1948

	1947	1948
Employees--On salaries Male	No. 66	67
Female	No. 14	7
On wages Male	No. 792	849
Female	No. 33	28
Total Employees	No. 905	951
Salaries	\$ 216,046	207,387
Wages	\$ 1,372,252	1,769,146
Total Salaries and Wages	\$ 1,588,298	1,976,533

Table 14 - OUTPUT OF THE GYPSUM PRODUCTS INDUSTRY, 1947 and 1948

Product	Unit of measure	1947		1948	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Gypsum wallboard	sq. ft.	213,701,430	6,210,912	237,700,167	7,213,425
Gypsum lath	sq. ft.	111,092,387	2,282,892	153,008,355	3,667,540
Gypsum hard wall plasters	ton	119,669	1,725,473	137,139	2,125,047
Other gypsum plasters.	ton	17,278	360,122	22,114	513,248
All other products (x)	...	...	447,430	...	667,454
TOTAL .....	...	...	11,026,829	...	14,186,714

(x) Includes gypsum tile and blocks, etc.

Table 15 - MATERIALS USED IN THE GYPSUM PRODUCTS INDUSTRY, 1947 and 1948

Material	1947		1948	
	Quantity	Cost at works	Quantity	Cost at works
	tons	\$	tons	\$
Gypsum, crude	52,183	225,419	61,991	329,733
Gypsum, calcined (plaster of Paris)	298,950	1,981,722	362,555	2,310,681
Paper	26,233	2,424,047	32,385	3,208,017
Starch or paste	1,980	165,767	1,628	237,100
Hair	110	36,527	133	46,798
Retarder	543	36,405	605	80,339
Sawdust and shavings ....	...	4,561	...	6,035
Containers, etc. ....	...	287,673	...	369,419
All other materials ....	...	311,555	...	467,297
TOTAL .....	...	5,503,676	...	7,055,419

LIST OF FIRMS IN THE GYPSUM PRODUCTS INDUSTRY, 1948

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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