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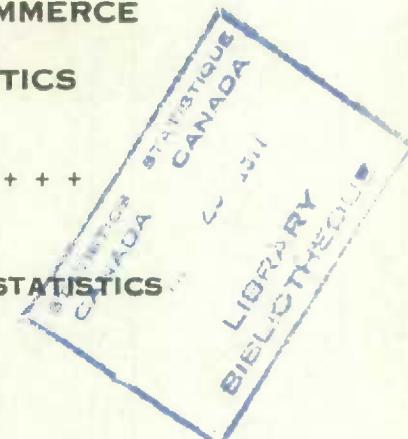
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Published by Authority of the Rt. Hon. C. D. Howe, M.P.,
Minister of Trade and Commerce

CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS

+++ Census of Industry +++

MINING, METALLURGICAL & CHEMICAL STATISTICS



THE
GYPSUM INDUSTRY
IN
CANADA

1946

Including: 1. The Gypsum Mining Industry
2. The Gypsum Products Industry



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(25 May '48)

Canada, Dominion Bureau of Statistics

A32-39-4-46

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Part I - PRIMARY PRODUCTION: THE GYPSUM MINING INDUSTRY, 1946

Shipments of gypsum reached a new high in 1946 when 1,810,937 tons valued at \$3,671,503 were moved from the quarries toward the markets. In the previous year 839,781 tons, worth \$1,783,290 were shipped. The tonnage in each year was made up 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 quarries or "primary" plants.

The quantity of crude mineral mined during 1946 included 1,969,173 tons of gypsum and 57,872 tons of crude anhydrite. A total of 321,887 tons of crude gypsum was calcined at the primary plants.

In 1946 the gypsum mining industry operated 14 quarries or mines and paid to 753 employees a total of \$1,246,673 in wages and salaries. The cost of fuel, electricity, process supplies and containers amounted to \$806,571 and the net value of production was \$2,890,156.

Exports in 1946 included 1,488,710 tons of crude gypsum valued at \$1,598,661 and 919 tons of plaster of Paris or wall plaster worth \$23,501. Imports included 3,731 tons of gypsum worth \$22,674 and 7,633 tons of plaster of Paris and wall plaster valued at \$165,863.

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, 1939-1946

Year	Number of firms	Number of plants	Average number of em- ployees	Salaries and wages	Cost of fuel and electri- city	Cost of process supplies	Gross sell- ing 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

This report was prepared by: (A. R. Deir, Mining Statistician

(J. J. Parchelo, Statistician, Metal & Chemical Products

Table 2 - PRODUCTION (a) OF GYPSUM IN CANADA, 1945 and 1946

	1945		1946	
	Quantity tons	Value \$	Quantity tons	Value \$
Shipments by grades -				
Crude - Lump or mine run	27,063	64,631	27,762	98,847
Crushed (c)	638,217	760,042	1,541,747	1,772,064
Fine ground	424	2,843	666	5,910
Calcined gypsum, sold and used (b)	174,077	955,774	240,762	1,794,682
TOTAL	839,781	1,783,290	1,810,937	3,671,503
Shipments by provinces -				
Nova Scotia	634,960	790,273	1,538,738	1,812,815
New Brunswick	46,755	236,833	38,839	550,972
Ontario	92,174	385,516	122,524	492,179
Manitoba	42,275	300,636	63,187	428,133
British Columbia	23,617	70,032	47,649	387,404
TOTAL	839,781	1,783,290	1,810,937	3,671,503
Total gypsum mined and quarried (c).	830,723	...	2,027,045	...
Total gypsum calcined (b)	210,276	...	321,887	...

(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 IN CANADA, 1920 - 1946

Year	Tons	Value	Year	Tons	Value
		\$			\$
1920	429,144	1,893,991	1934	461,237	863,776
1921	386,550	1,785,538	1935	541,864	932,203
1922	559,265	2,160,898	1936	833,822	1,278,971
1923	578,301	2,243,100	1937	1,047,187	1,540,483
1924	646,016	2,208,108	1938	1,008,799	1,502,265
1925	740,323	2,389,891	1939	1,421,934	1,935,127
1926	883,728	2,770,813	1940	1,448,788	2,065,933
1927	1,063,117	3,251,015	1941	1,593,406	2,248,428
1928	1,246,368	3,743,648	1942	566,166	1,254,182
1929	1,211,689	3,345,696	1943	466,848	1,381,468
1930	1,070,968	2,818,788	1944	596,164	1,511,978
1931	863,752	2,111,517	1945	839,781	1,783,290
1932	438,629	1,080,379	1946	1,810,937	3,671,503
1933	382,736	675,822			

Table 4 - PRODUCTION OF CRUDE AND CALCINED GYPSUM IN CANADA, BY MONTHS, 1945 and 1946

Month	1945	1946	Month	1945	1946
	(tons)			(tons)	
January	12,936	18,898	July	82,479	201,414
February	12,901	21,942	August	99,012	243,279
March	16,508	54,446	September ...	132,380	248,143
April	24,776	110,311	October	150,756	270,937
May	43,759	142,589	November	110,025	242,123
June	103,749	150,195	December	50,500	106,660
			TOTAL	839,781	1,810,937

Table 5 - IMPORTS AND EXPORTS OF GYPSUM, 1945 and 1946

	1945		1946	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Imports -				
Gypsum, crude (sulphate of lime)	888	22,183	3,731	22,674
Gypsum, ground, not calcined	2,884	89,144	7,633	165,863
Plaster of Paris and wall plaster	...	111,327	...	188,537
TOTAL				
Exports -				
Gypsum or plaster, crude	558,632	581,625	1,488,710	1,598,661
Plaster of Paris, wall plaster ..	447	9,058	919	23,501
Gypsum, ground .....	...	...	...	...
TOTAL		590,683	...	1,622,162

Table 6 - CONSUMPTION OF GYPSUM IN THE PORTLAND CEMENT INDUSTRY IN CANADA, 1939-1946

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

Table 7 - CONSUMPTION OF GYPSUM IN THE GYPSUM PRODUCTS INDUSTRY, 1939-1946

Year	Crude	Calcined
	Tons	Tons
1939	19,946	105,397
1940	21,611	125,917
1941	30,978	157,488
1942	20,742	149,885
1943	17,489	162,273
1944	26,683	165,750
1945	10,147	194,351
1946	46,617	253,617

Table 8 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1945 and 1946

Province	Average Number of Employees						Total		
	On Salaries		On Wages		Total	Salaries	Wages	Salaries and Wages	
	Male	Female	Male	Female					
1945									
Nova Scotia ...	18	6	155	1	180	35,345	225,686	261,031	
Other provinces	13	...	240	1	254	32,543	353,713	386,256	
CANADA	31	6	395	2	434	67,888	579,399	647,287	
1946									
Nova Scotia ...	24	4	376	3	407	64,816	590,633	655,449	
Other provinces	17	5	322	2	346	45,929	545,295	591,224	
CANADA	41	9	698	5	753	110,745	1,135,928	1,246,673	

Table 9 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE LAST DAY OF EACH MONTH, 1945-1946

Month	1945				1946			
	Mine		Mill		Mine		Mill	
	Surface	Under-	Male	Female	Surface	Under-	Male	Female
Male	Female	ground			Male	Female		
January	61	1	78	139	...	81	2	133
February	55	1	76	121	...	75	2	133
March	67	2	81	137	...	90	2	135
April	107	2	79	144	...	233	2	134
May	124	2	91	160	...	315	2	137
June	184	2	87	161	...	316	2	138
July	185	2	87	175	...	350	3	143
August	178	2	89	189	...	352	3	135
September	202	2	91	193	...	365	3	136
October	177	2	97	198	...	396	3	144
November	199	2	98	215	...	381	3	145
December	146	2	89	152	...	302	3	150
AVERAGE ...	142	2	88	165	...	269	3	108
								291
								2

Table 10 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
Coal--Bituminous--Canadian	ton	7,578	\$ 68,311	10,165	\$ 86,379
Imported	ton	3,243	26,971	4,074	34,548
Lignite	ton	1,288	6,369	...	...
Coke	ton	724	9,182	942	13,103
Gasoline	Imp.gal.	85,234	20,494	174,770	41,740
Kerosene	Imp.gal.	1,094	174	1,145	238
Fuel oil	Imp.gal.	101,372	11,512	253,185	26,522
Wood	cord	91	507	563	4,084
Gas--Natural	M cu.ft.	11,010	4,404	11,095	4,438
Electricity purchased	K.W.H.	3,379,305	36,695	4,912,506	49,427
TOTAL .....	...	...	184,619	...	260,479
Electricity generated for own use	K.W.H.	2,649,806	...	2,471,642	...

Table 11 - POWER EQUIPMENT INSTALLATION, 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines	5	1,140	2	215
Steam turbines .....	...	...	...	...
Diesel engines	36	5,028	3	105
Gasoline, gas and oil engines, other than diesel engines	36	2,762	6	211
Hydraulic turbines or water wheels	...	...	...	...
Electric motors -				
(a) Operated by purchased power.	114	3,818	14	341
TOTAL	191	12,748	25	872
(b) Operated by power generated by the establishment	37	1,205	6	305
Stationary boilers	3	450		
Motor-generator sets	5	268		

LIST OF FIRMS IN THE GYPSUM MINING INDUSTRY

Name of Firm	Head Office Address	Plant Location
<u>Nova Scotia -</u>		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto Ont.	Wentworth
Conn. Adamant Plaster Co.	10 River St., New Haven,	Cheverie
	Conn., U.S.A.	
Gypsum, Lime & Alabastine, Canada, Ltd. (idle)	Paris, Ont.	Baddeck Bay
National Gypsum (Canada) Ltd.	325 Delaware Ave., Buffalo N. Y. 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 Ont.	Hillsborough
<u>Ontario -</u>		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto	Hagersville
Cayuga Gypsum Co. Ltd.	Caledonia	North Cayuga Tp.
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris	Caledonia
<u>Manitoba -</u>		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ont.	Gypsumville
Western Gypsum Products Ltd.	503 McArthur Bldg., Winnipeg	Amaranth
<u>British Columbia -</u>		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ont.	Falkland
Western Gypsum Products Ltd.	McArthur Bldg., Winnipeg, Man.	Mayook

Part II - SECONDARY PRODUCTION--THE GYPSUM PRODUCTS INDUSTRY, 1946

Ten Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of \$8,755,090 during 1946. This output was 53.2 per cent over the 1945 total of \$5,716,114. 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 1946 was 905, who were paid \$1,298,693 in salaries and wages. Expenditures for fuel and electricity amounted to \$412,031 and materials used in manufacturing processes cost \$4,076,812.

Table 12 - PRINCIPAL STATISTICS OF THE GYPSUM PRODUCTS INDUSTRY, 1945 and 1946

	1 9 4 5	1 9 4 6
Number of establishments	- 9	10
Number of employees	603	905
Salaries and wages	\$ 937,369	1,298,693
Cost of fuel and electricity	\$ 289,914	412,031
Cost of materials at works	\$ 2,843,004	4,076,812
Selling value of products at works ...	\$ 5,716,114	8,755,090

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, 1945 and 1946

	1 9 4 5	1 9 4 6
Employees--On salaries ...		
Male No.	58	78
Female No.	17	15
On wages		
Male No.	474	772
Female No.	54	40
Total Employees .. No.	603	905
Salaries	\$ 157,769	243,967
Wages	\$ 779,600	1,054,726
Total Salaries and Wages	\$ 937,369	1,298,693

Table 14 - WAGE-EARNERS, BY MONTHS, 1945 and 1946

	1 9 4 5			1 9 4 6		
	Male	Female	TOTAL	Male	Female	TOTAL
January	442	43	485	711	41	752
February	443	41	484	700	40	740
March	439	44	483	727	40	767
April	429	52	481	734	39	773
May	450	52	502	766	40	806
June	454	51	505	792	40	832
July	452	58	510	805	40	845
August	454	62	516	812	39	851
September	486	66	552	803	39	842
October	536	63	599	804	40	844
November	566	60	626	803	40	843
December	532	62	594	809	39	848
AVERAGE	474	54	528	772	40	812

Table 15 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Coal--Bituminous--Canadian	ton	703	5,881	6,234	30,189
Imported	ton	5,987	52,386	10,544	90,051
Lignite	ton	9,591	39,623	8,132	32,536
Coke	ton	218	2,488	307	3,297
Gasoline	Imp.gal.	11,990	3,667	2,429	784
Kerosene or coal oil	Imp.gal.	278	49	267	47
Fuel oil	Imp.gal.	1,503,621	93,086	2,489,926	148,026
Wood	cord	1,032	7,014	458	3,057
Gas--Natural	M cu.ft.	13,158	3,162	24,454	5,509
Other fuel .....	...	...	264	...	...
Electricity purchased	K.W.H.	6,898,692	82,294	9,742,569	98,535
TOTAL .....	...	...	289,914	...	412,031
Electricity generated for own use	K.W.H.	406,984	...	363,464	...

Table 16 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1945</u>				
Steam engines	1	10	2	40
Gasoline, gas and oil engines ...	1	40	...	...
Electric motors run by purchased power	421	6,623	19	390
TOTAL	423	6,673	21	430
Electric motors run by power generated by above primary units	27	105	1	10
Power boilers	3	900	...	...
Motor-generator sets	4	23	...	...
<u>1946</u>				
Steam engines	1	10	1	10
Gasoline, gas and oil engines ...	1	40	...	...
Electric motors run by purchased power	502	7,431	12	298
TOTAL	504	7,481	13	308
Electric motors run by power generated by above primary units	1	40	1	10
Stationary power boilers	5	1,355	...	...
Motor-generator sets	5	98k.v.a.	...	...

Table 17 - MATERIALS USED IN THE GYPSUM PRODUCTS INDUSTRY, 1945 and 1946

Material	1945		1946	
	Quantity	Cost at works	Quantity	Cost at works
	Tons	\$	Tons	\$
Gypsum, crude	10,147	80,298	46,617	202,021
Gypsum, calcined (plaster of Paris)	194,351	1,143,123	253,617	1,403,169
Paper	15,488	1,038,137	23,309	1,713,069
Starch or paste	810	65,485	1,146	114,449
Hair	83	21,188	108	26,607
Retarder	256	22,469	367	33,563
Sawdust and shavings	283	3,084	...	5,630
Containers, etc. ....	...	131,894	...	176,465
All other materials ....	...	337,326	...	401,839
TOTAL .....	...	2,843,004	...	4,076,812

Table 18 - OUTPUT OF THE GYPSUM PRODUCTS INDUSTRY, 1945 and 1946

Product	Unit of measure	1945		1946	
		Quantity	Selling value at works	Quantity	Selling value at works
		\$	\$		\$
Gypsum wallboard	sq.ft.	133,977,115	3,405,323	203,361,505	5,502,593
Gypsum hard wall plasters	ton	67,076	875,529	88,138	1,230,062
All other products (x) ..	...	...	1,435,262	...	2,022,435
TOTAL .....	...	...	5,716,114	...	8,755,090

(x) Includes gypsum tile and blocks, gypsum lath, etc.

LIST OF FIRMS IN THE GYPSUM PRODUCTS INDUSTRY, 1946

Name of Firm	Head Office Address	Plant Location
Windsor Plaster Co. Ltd.	Windsor, N. S.	Windsor, N.S.
Canadian Gypsum Co. Ltd.	1221 Bay St., Toronto, Ont.	Hillsborough, N.B. Hagersville, Ont.
Gypsum, Lime and Alabastine, Canada, Limited	Paris, Ont.	Montreal, Que. Caledonia, Ont. Winnipeg, Man. Calgary, Alta. New Westminster, B.C.
Western Gypsum Products Ltd.	503 McArthur Building, Winnipeg, Man.	Winnipeg, Man. Calgary, Alta.

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