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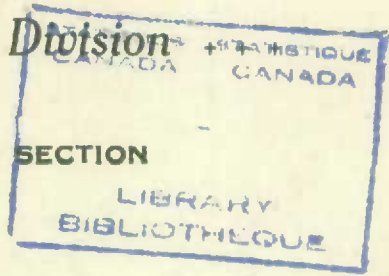
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+++ *Industry and Merchandising Division*

MINING, METALLURGICAL & CHEMICAL SECTION



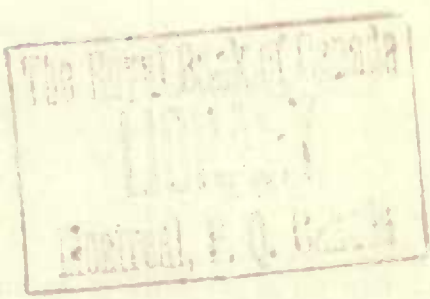
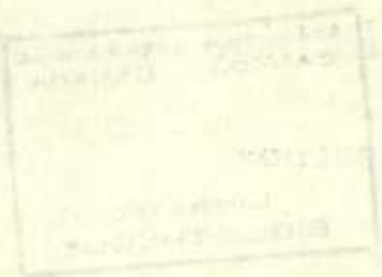
THE
GYPSUM INDUSTRY
IN
CANADA
1947

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



OTTAWA
1948

Price 25 cents



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Part I - PRIMARY PRODUCTION: THE GYPSUM MINING INDUSTRY, 1947

A new production record was made during 1947 when the shipments of gypsum reached 2,496,984 tons valued at \$4,734,853. In the previous year 1,810,937 tons worth \$3,671,503 were moved from the quarries toward the markets. 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 1947 included 2,554,571 tons of gypsum and 49,504 tons of anhydrite. The primary plants calcined 383,072 tons of crude gypsum during the year.

The gypsum mining industry operated 13 quarries or mines in 1947 and paid to 908 employees a total of \$1,695,711 in wages and salaries. The cost of fuel, electricity, process supplies and containers amounted to \$1,050,321 and the net value of production was \$3,732,108.

Exports in 1947 included 1,936,990 tons of crude gypsum valued at \$2,043,055 and 1,423 tons of plaster of Paris or wall plaster worth \$29,364. Imports included 8,875 tons of gypsum worth \$75,856 and 10,071 tons of plaster of Paris and wall plaster valued at \$173,762.

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, 1939-1947

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	1,246,573	260,479	520,868	3,696,727
1947	8	13	908	1,695,711	364,115	638,630	4,782,429

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, 1946 and 1947

	1 9 4 6		1 9 4 7	
	Quantity tons	Value \$	Quantity tons	Value \$
Shipments by grades -				
Crude - Lump or mine run.	27,762	98,847	75,881	138,367
Crushed (c)	1,541,747	1,772,064	2,120,645	2,321,669
Fine ground	666	5,910	561	5,618
Calcined gypsum, sold and used (b)	240,762	1,794,682	299,917	2,269,199
TOTAL	1,810,937	3,671,503	2,496,984	4,734,853
Shipments by provinces -				
Nova Scotia	1,538,738	1,812,815	2,137,704	2,303,275
New Brunswick	38,839	550,972	65,939	711,535
Ontario	122,524	492,179	155,249	671,548
Manitoba	63,187	428,133	79,356	525,197
British Columbia	47,549	337,404	58,736	523,298
TOTAL	1,810,937	3,671,503	2,496,984	4,734,853
Total gypsum mined and quarried (c)	2,027,045	...	2,604,075	...
Total gypsum calcined (b) ..	321,887	...	383,072	...

(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, 1933-1947

Year	Tons	Value \$	Year	Tons	Value \$
1933	382,736	675,822	1941	1,593,406	2,248,428
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			

Gypsum

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Table 4 - PRODUCTION OF CRUDE AND CALCINED GYPSUM IN CANADA, BY MONTHS, 1946 and 1947

Month	1946	1947	Month	1946	1947
(tons)					
January	18,898	92,020	July	201,414	321,286
February	21,942	78,887	August	243,279	327,882
March	54,446	102,089	September ...	248,143	400,212
April	110,311	86,491	October	270,937	261,109
May	142,589	154,877	November	242,123	237,634
June	150,195	265,429	December	106,660	169,068
			TOTAL	1,810,937	2,496,984

Table 5 - IMPORTS AND EXPORTS OF GYPSUM, 1946 and 1947

	1 9 4 6		1 9 4 7	
	Quantity tons	Value \$	Quantity tons	Value \$
Imports -				
Gypsum, crude (sulphate of lime.)				
Gypsum, ground, not calcined)	3,731	22,674	8,875	75,856
Plaster of Paris and wall plaster	7,633	165,863	10,071	173,762
TOTAL .....	...	188,537	...	249,618
Exports -				
Gypsum or plaster, crude	1,488,710	1,598,661	1,936,990	2,043,055
Plaster of Paris, wall plaster ..	919	23,501	1,423	29,364
Gypsum, ground .....	...	...	...	...
TOTAL .....	...	1,622,162	...	2,072,419

Table 6 - CONSUMPTION OF GYPSUM IN THE PORTLAND CEMENT INDUSTRY IN CANADA, 1939-1947

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		

Table 7 - CONSUMPTION OF GYPSUM IN THE GYPSUM PRODUCTS INDUSTRY, 1939-1947

Year	Crude	Calcined	Year	Crude	Calcined
(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			

Gypsum

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Table 8 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

Province	Average Number of Employees					Salaries \$	Wages \$	Total Salaries and Wages \$
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<u>1946</u>								
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
<u>1947</u>								
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

Table 9 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE LAST DAY OF EACH MONTH - 1946 and 1947

Month	1946					1947				
	Mine		Under-ground	Mill		Mine		Under-ground	Mill	
	Surface	Male		Female	Male	Female	Surface		Male	Female
January	81	2	133	198	2	286	2	141	212	1
February	75	2	133	197	2	283	2	141	211	1
March	90	2	135	216	2	314	2	142	242	1
April	233	2	134	270	2	348	2	144	266	1
May	315	2	137	323	2	428	2	139	344	1
June	316	2	138	336	2	447	2	145	352	1
July	350	3	143	329	2	442	2	151	400	2
August	352	3	135	348	2	463	2	141	400	2
September	365	3	136	360	2	467	2	155	418	2
October	396	3	144	357	3	457	2	157	377	1
November	381	3	145	294	3	396	2	163	350	1
December	302	3	150	264	2	345	2	171	271	1
AVERAGE ...	269	3	108	291	2	389	2	151	321	1

Table 10 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
Coal--Bituminous--Canadian	ton	10,165	86,379	7,607	86,222
Imported	ton	4,074	34,548	8,925	100,176
Lignite	ton	...	...	1,395	6,134
Coke	ton	942	13,103	1,069	16,019
Gasoline	Imp. gal.	174,770	41,740	163,056	46,421
Kerosene	Imp. gal.	1,145	238	3,560	1,854
Fuel oil	Imp. gal.	253,185	26,522	311,916	35,816
Wood	cord	563	4,084	93	670
Gas - Natural	M cu.ft.	11,095	4,438	...	...
Electricity purchased	K.W.H.	4,912,506	49,427	7,429,113	70,803
TOTAL .....	...	...	260,479	...	364,115
Electricity generated for own use	K.W.H.	2,471,642	...	4,249,878	...

Table 11 - POWER EQUIPMENT INSTALLATION, 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines	4	1,140	1	200
Steam turbines .....	...	...	...	...
Diesel engines	57	7,625	2	400
Gasoline, gas and oil engines, other than diesel engines	38	2,113	...	...
Hydraulic turbines or water wheels	...	...	...	...
Electric motors -				
(a) Operated by purchased power	172	6,222	22	813
TOTAL	271	17,100	25	1,413
(b) Operated by power generated by the establishment	41	1,395	...	...
Stationary power boilers	3	450	...	...
Motor-generator sets	2	375	...	...

LIST OF FIRMS IN THE GYPSUM MINING INDUSTRY - 1947

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, Conn., U.S.A.	Cheverie
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 Ont.	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, 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, 1947

Ten Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of \$11,026,829 during 1947. This output was 25.9 per cent over the 1946 total of \$8,755,090. 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 1947 was 905, who were paid \$1,588,298 in salaries and wages. Expenditures for fuel and electricity amounted to \$496,638 and materials used in manufacturing processes cost \$5,503,676.

Table 12 - PRINCIPAL STATISTICS OF THE GYPSUM PRODUCTS INDUSTRY, 1946 and 1947

	1946	1947
Number of establishments	10	10
Number of employees	905	905
Salaries and wages	\$ 1,298,693	1,588,298
Cost of fuel and electricity	\$ 412,031	496,638
Cost of materials at works	\$ 4,076,812	5,503,676
Selling value of products at works ...	\$ 8,755,090	11,026,829

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, 1946 and 1947

	1946	1947
Employees--On salaries ... Male	No. 78	66
Female	No. 15	14
On wages	Male	No. 792
Female	No. 40	33
Total Employees ..	No. 905	905
Salaries	\$ 243,967	216,046
Wages	\$ 1,054,726	1,372,252
Total Salaries and Wages	\$ 1,298,693	1,588,298

Table 14 - WAGE-EARNERS, BY MONTHS, 1946 and 1947

	1946			1947		
	Male	Female	Total	Male	Female	Total
January	711	41	752	809	34	843
February	700	40	740	798	34	832
March	727	40	767	798	32	830
April	734	39	773	782	32	814
May	766	40	806	780	33	813
June	792	40	832	759	33	792
July	805	40	845	762	33	795
August	812	39	851	737	35	772
September	803	39	842	767	34	801
October	804	40	844	817	35	852
November	803	40	843	856	34	890
December	809	39	848	839	33	872
AVERAGE	772	40	812	792	33	825

Table 15 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1946		1947	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Coal--Bituminous--Canadian	ton	6,234	30,189	615	6,897
Imported	ton	10,544	90,051	10,333	97,428
Lignite	ton	8,132	32,536	18,326	59,653
Coke	ton	307	3,297	273	3,500
Gasoline	Imp.gal.	2,429	784	4,796	1,551
Kerosene or coal oil	Imp.gal.	267	47	...	...
Fuel oil	Imp.gal.	2,489,926	148,026	2,679,766	206,892
Wood	cord	458	3,057	749	5,986
Gas - Natural	M cu.ft.	24,454	5,509	28,549	11,905
Other fuel .....	...	...	...	...	...
Electricity purchased	K.W.H.	9,742,569	98,535	8,789,040	102,826
TOTAL .....	...	...	412,031	...	496,638
Electricity generated for own use	K.W.H.	363,464	...	516,626	...

Table 16 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<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.	...	...
<u>1947</u>				
Steam engines	1	10	...	...
Gasoline, gas and oil engines ...	...	...	...	...
Electric motors run by purchased power	490	6,535	25	512
TOTAL	491	6,545	25	512
Electric motors run by power generated by above primary units	1	40	1	8
Stationary power boilers	5	1,355
Motor-generator sets	6	278k.v.a.

Gypsum

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Table 17 - MATERIALS USED IN THE GYPSUM PRODUCTS INDUSTRY, 1946 and 1947

Material	1 9 4 6		1 9 4 7	
	Quantity	Cost at works	Quantity	Cost at works
	Tons	\$	Tons	\$
Gypsum, crude	46,617	202,021	52,183	225,419
Gypsum, calcined (plaster of Paris)	253,617	1,403,169	298,950	1,981,722
Paper	23,309	1,713,069	26,233	2,424,047
Starch or paste	1,146	114,449	1,980	165,767
Hair	108	26,607	110	36,527
Retarder	367	33,563	543	66,405
Sawdust and shavings ....	...	5,630	...	4,561
Containers, etc. ....	...	176,465	...	287,673
All other materials ....	...	401,839	...	311,555
TOTAL .....	...	4,076,812	...	5,503,676

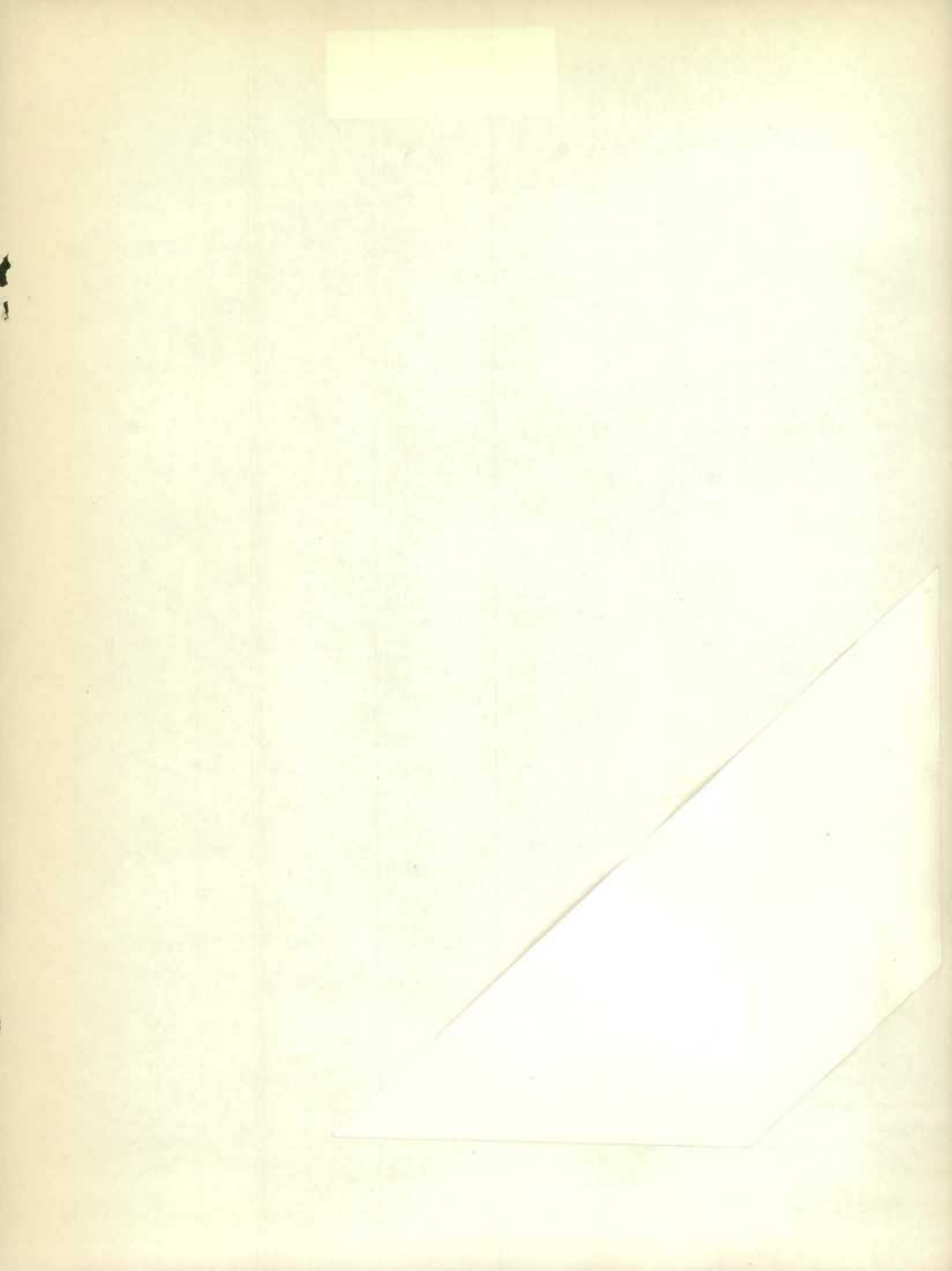
Table 18 - OUTPUT OF THE GYPSUM PRODUCTS INDUSTRY, 1946 and 1947

Product	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Gypsum wallboard	sq.ft.	203,361,505	5,502,593	213,701,430	6,210,912
Gypsum hard wall plasters	ton	88,138	1,230,062	119,669	1,725,473
All other products (x) ..	...	...	2,022,435	...	3,090,444
TOTAL .....	...	...	8,755,090	...	11,026,829

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

LIST OF FIRMS IN THE GYPSUM PRODUCTS INDUSTRY - 1947

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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