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CANADA

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MINING, METALLURGICAL & CHEMICAL STATISTICS

**THE
GYPSUM INDUSTRY
IN
CANADA
1945**

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



**OTTAWA
1947**

Price 25 Cents

Faint, illegible text covering the majority of the page, possibly bleed-through from the reverse side. The text is too light to transcribe accurately.

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Part I - PRIMARY PRODUCTION: THE GYPSUM MINING INDUSTRY, 1945

Shipments of gypsum from Canadian mines and quarries in 1945 totalled 839,781 tons valued at \$1,783,290. In the previous year, the shipments amounted to 596,164 tons worth \$1,511,978. The tonnage in each year is made up of various grades of crude gypsum or 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 in 1945 included 803,761 tons of crude gypsum and 26,962 tons of crude anhydrite. The quantity of crude gypsum calcined at the quarries or mines in 1945 amounted to 210,276 tons.

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.

In 1945 the gypsum mining industry operated 12 quarries or mines and paid 434 employees a total of \$647,287 in salaries and wages. The cost of fuel, electricity and process supplies was \$575,645, and the net value of production was \$1,207,645.

Exports in 1945 included 558,632 tons of crude gypsum valued at \$581,625 and 447 tons of plaster of Paris or wall plaster worth \$9,058. Imports included 888 tons of gypsum worth \$22,183 and 2,884 tons of plaster of Paris and wall plaster valued at \$89,144.

Table 1 - PRINCIPAL STATISTICS FOR THE GYPSUM MINING INDUSTRY, 1939-1946

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 f.o.b. works
				\$	\$	\$	\$
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

This report was prepared by: (A. R. Deir, Mining Statistician
(J. J. Parchelo, Statistician, Metal & Chemical Products

Table 2 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1944 and 1945

Province	Average Number of Employees					Salaries \$	Wages \$	Total Salaries and Wages \$
	On Salaries		On Wages		Total No.			
	Male No.	Female No.	Male No.	Female No.				
<u>1944</u>								
Nova Scotia ...	16	6	122	...	144	46,783	167,603	214,386
Other provinces	14	...	169	1	184	34,962	241,524	276,486
CANADA	30	6	291	1	328	81,745	409,127	490,872
<u>1945</u>								
Nova Scotia ...	18	6	155	1	180	55,345	225,886	281,231
Other provinces	13	...	240	1	254	32,543	353,713	386,256
CANADA	31	6	395	2	434	67,888	579,399	647,287

Table 3 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE LAST DAY OF EACH MONTH, 1943-1945

Month	1943		1944		1945			Mill	
	Mine	Mill	Mine	Mill	Mine		Under-ground(*)	Male	Female
					Surface Male	Female			
January	152	151	150	73	61	1	78	139	...
February	162	147	149	68	55	1	76	121	...
March	166	157	161	86	67	2	81	137	...
April	177	152	188	92	107	2	79	144	...
May	181	165	212	100	124	2	91	160	...
June	197	170	211	110	184	2	87	161	...
July	217	182	209	108	185	2	87	175	...
August	244	179	220	113	178	2	89	189	...
September	236	199	233	128	202	2	91	193	...
October	236	198	232	118	177	2	97	198	...
November	259	199	181	108	199	2	98	215	...
December	268	190	163	82	146	2	89	152	...
AVERAGE ...	211	176	193	99	142	2	88	165	...

(*) Underground work only in New Brunswick, Ontario and Manitoba.

Table 4 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED DURING ONE WEEK IN MONTH OF HIGHEST EMPLOYMENT, 1945 (Overtime included)

Hours	Number		Hours	Number	
	Male	Female		Male	Female
30 hours or less	62	2	55 hours	6	...
31-43 hours	81	...	56-64 hours	64	...
44 hours	66	...	65 hours or more ..	53	...
45-47 hours	23	...	TOTAL	533	2
48 hours	88	...			
49-50 hours	16	...	Total wages paid in selected week .. \$	15,771	30
51-54 hours	74	...			

Table 5 - FUEL AND ELECTRICITY USED, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Coal--Bituminous--Canadian	ton	8,284	69,729	7,578	68,311
Imported	ton	1,659	12,689	3,243	26,971
Lignite	ton	...	...	1,288	6,369
Coke	ton	2	24	724	9,182
Gasoline	Imp.gal.	61,632	15,136	85,234	20,494
Kerosene	Imp.gal.	652	130	1,094	174
Fuel oil	Imp.gal.	41,221	4,737	101,372	11,512
Wood	cord	25	150	91	507
Gas--Natural	M cu.ft.	7,776	2,956	11,010	4,404
Electricity purchased	K.W.H.	3,863,316	43,192	3,379,305	36,695
TOTAL .....	...	...	148,743	...	184,619
Electricity generated for own use	K.W.H.	1,554,806	...	2,649,806	...

Table 6 - POWER EQUIPMENT INSTALLATION, 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power (*)	Number of units	Total horse power (*)
Steam engines	3	1,125	5	235
Steam turbines .....	...	...	...	...
Diesel engines	20	2,624	1	36
Gasoline, gas and oil engines, other than diesel engines	24	1,174	8	323
Hydraulic turbines or water wheels	...	...	...	...
Electric motors -				
(a) Operated by purchased power.	115	4,430	7	310
TOTAL	162	9,353	21	904
(b) Operated by power generated by the establishment	32	5,602	1	35
Stationary boilers	3	450	...	...
Motor-generator sets	11	859	...	...

(*) According to manufacturers' rating.

Table 7 - PRODUCTION OF CRUDE AND CALCINED GYPSUM IN CANADA, BY MONTHS, 1944 and 1945

Month	1944		1945	
	(tons)		(tons)	
January	44,157	12,936	July	66,660
February	44,704	12,901	August	80,437
March	49,168	16,508	September ...	57,804
April	38,839	24,776	October	50,047
May	41,547	43,759	November	39,965
June	47,177	103,749	December	35,659
				82,479
				99,012
				132,380
				150,756
				110,025
				50,500

Gypsum

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Table 8 - PRODUCTION OF GYPSUM IN CANADA, 1944 and 1945^(a)

	1944		1945	
	Quantity tons	Value ↓	Quantity tons	Value ↓
Shipments by grades -				
Crude (a) - Lump or mine run	26,726	38,499	27,063	64,631
Crushed	398,142	463,677	638,217	760,042
Fine ground	5,508	16,244	424	2,843
Calcined gypsum, sold and used (b)	165,788	993,558	174,077	955,774
TOTAL	596,164	1,511,978	839,781	1,783,290
Shipments by provinces -				
Nova Scotia	401,284	489,932	634,960	790,273
New Brunswick	42,040	200,748	46,755	236,833
Ontario	90,288	348,873	92,174	385,516
Manitoba	38,330	368,498	42,275	300,636
British Columbia	24,222	103,927	23,617	70,032
TOTAL	596,164	1,511,978	839,781	1,783,290
Total gypsum mined and quarried (c).	536,356	...	830,723	...
Total gypsum calcined (b)	194,748	...	210,276	...

(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 9 - PRODUCTION OF CRUDE AND CALCINED GYPSUM IN CANADA, 1914-1945

Year	Tons	Value \$	Year	Tons	Value \$
1914	516,880	1,156,207	1930	1,070,968	2,818,788
1915	474,815	354,929	1931	863,752	2,111,517
1916	342,915	738,593	1932	438,629	1,080,379
1917	336,332	881,984	1933	382,736	675,822
1918	152,287	823,006	1934	461,237	863,776
1919	299,063	1,215,237	1935	541,864	932,203
1920	429,144	1,893,391	1936	833,822	1,278,971
1921	336,550	1,785,538	1937	1,047,187	1,540,483
1922	559,265	2,160,893	1938	1,008,799	1,502,265
1923	578,301	2,243,100	1939	1,421,934	1,935,127
1924	646,016	2,208,108	1940	1,448,788	2,065,933
1925	740,323	2,389,891	1941	1,593,406	2,248,428
1926	883,728	2,770,813	1942	566,166	1,254,182
1927	1,063,117	3,251,015	1943	446,848	1,381,468
1928	1,246,368	3,743,643	1944	596,164	1,511,978
1929	1,211,689	3,345,696	1945	839,781	1,783,290

Table 10 - IMPORTS AND EXPORTS OF GYPSUM, 1944 and 1945 (*)

	1944		1945	
	Quantity tons	Value \$	Quantity tons	Value \$
Imports -				
Gypsum, crude (sulphate of lime.)	560	17,223	888	22,183
Gypsum, ground, not calcined)				
Plaster of Paris and wall plaster	1,550	65,180	2,884	89,144
TOTAL .....	...	82,403	...	111,327
Exports -				
Gypsum or plaster, crude	386,949	434,123	558,632	581,625
Plaster of Paris, wall plaster ..	443	9,262	447	9,058
Gypsum, ground .....	...	...	...	...
TOTAL .....	...	443,385	...	590,683

(*) Subject to revision.

Table 11 - CONSUMPTION OF GYPSUM IN THE PORTLAND CEMENT INDUSTRY IN CANADA,
1939-1945

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

Table 12 - CONSUMPTION OF GYPSUM IN THE GYPSUM PRODUCTS INDUSTRY, 1939-1945

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

LIST OF FIRMS IN THE GYPSUM MINING INDUSTRY, 1945

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.	Walton, Dingwall, Cheticamp
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	Mayook

Part II - SECONDARY PRODUCTION--THE GYPSUM PRODUCTS INDUSTRY, 1945

Nine Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of \$5,716,114 during 1945. This output was 12.6 per cent over the 1944 total of \$5,077,477. 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 1945 was 603, to whom \$937,369 were paid in salaries and wages. Expenditures for fuel and electricity amounted to \$289,914 and materials used in manufacturing processes cost \$2,843,004.

Table 13 - PRINCIPAL STATISTICS OF THE GYPSUM PRODUCTS INDUSTRY, 1944 and 1945

	1944	1945
Number of establishments	9	9
Number of employees	569	603
Salaries and wages	\$ 856,261	937,369
Cost of fuel and electricity	\$ 297,606	289,914
Cost of materials at works	\$ 2,659,683	2,843,004
Selling value of products at works ...	\$ 5,077,477	5,716,114

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 14 - EMPLOYEES, SALARIES AND WAGES, 1944 and 1945

	1944	1945
Employees--On salaries ... Male	No. 50	58
Female	No. 18	17
On wages	Male	No. 474
Female	No. 39	54
Total Employees ..	No. 569	603
Salaries	\$ 134,424	157,769
Wages	\$ 721,837	779,600
Total Salaries and Wages	\$ 856,261	937,369

Table 15 - WAGE-EARNERS, BY MONTHS, 1944 and 1945

Month	1944			1945		
	Male	Female	TOTAL	Male	Female	TOTAL
January	469	27	496	442	43	485
February	475	29	504	443	41	484
March	485	27	512	439	44	483
April	474	37	511	429	52	481
May	458	49	507	450	52	502
June	452	46	498	454	51	505
July	452	44	496	452	58	510
August	445	47	492	454	62	516
September	440	44	484	486	66	552
October	465	44	509	536	63	599
November	468	39	507	566	60	626
December	472	36	508	532	62	594
AVERAGE	462	39	501	474	54	528

Table 16 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1944 and 1945 (In one week of month of highest employment; overtime included)

	Number of Wage-earners					
	1944			1945		
	Male	Female	TOTAL	Male	Female	TOTAL
30 hours or less ..	45	2	47	35	2	37
31-43 hours	37	3	40	89	11	100
44 hours	68	6	74	45	4	49
45-47 hours	22	...	22	26	...	26
48 hours	53	13	66	111	17	128
49-50 hours	24	3	27	21	7	28
51-54 hours	47	10	57	41	5	46
55 hours	16	...	16	11	1	12
56-64 hours	112	4	116	65	18	83
65 hours or over ..	110	...	110	122	...	122
TOTAL	534	41	575	566	65	631
Total wages paid in selected week \$	16,930	1,070	18,000	16,864	1,599	18,463

Table 17 - FUEL AND ELECTRICITY USED, 1944 and 1945

Kind	Unit of measure	1944		1945	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Coal--Bituminous--Canadian	ton	397	3,213	703	5,881
Imported	ton	8,204	67,497	5,987	52,386
Lignite	ton	10,146	42,797	9,591	39,623
Coke	ton	932	12,338	218	2,488
Gasoline	Imp.gal.	7,459	2,358	11,990	3,667
Kerosene or coal oil	Imp.gal.	...	...	278	49
Fuel oil	Imp.gal.	1,268,556	94,168	1,503,621	93,086
Wood	cord	568	3,555	1,032	7,014
Gas--Natural	M cu.ft.	8,537	2,179	13,158	3,162
Other fuel .....	...	...	...	...	264
Electricity purchased	K.W.H.	5,577,977	69,501	6,898,692	82,294
TOTAL .....	...	...	297,606	...	289,914
Electricity generated for own use	K.W.H.	1,554,806	...	406,984	...

Table 18 - POWER EQUIPMENT, 1944 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1944			
Steam engines .....	...	...	3	55
Gasoline, gas and oil engines ...	1	40	...	...
Electric motors run by purchased power	322	6,289	40	839
TOTAL	323	6,329	43	894
Electric motors run by power generated by above primary units	27	105	1	10
Stationary power boilers	2	277	1	35
Motor-generator sets	2	170	2	185

Table 18 - POWER EQUIPMENT, 1944 and 1945 (Concluded)

	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	...	...

Table 19 - MATERIALS USED IN THE GYPSUM PRODUCTS INDUSTRY, 1944 and 1945

Material	Unit of measure	1944		1945	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Gypsum, crude	ton	26,683	212,813	10,147	80,298
Gypsum, calcined (plaster of Paris)	ton	165,750	993,385	194,351	1,143,123
Paper	ton	15,089	999,201	15,488	1,038,137
Starch or paste	ton	678	50,391	810	65,485
Hair	ton	66	17,468	83	21,188
Retarder	ton	224	19,374	256	22,469
Sawdust and shavings	ton	246	3,105	283	3,084
Containers, etc. ....	...	...	101,244	...	131,894
All other materials .....	...	...	262,702	...	337,526
TOTAL .....	...	...	2,659,683	...	2,843,004

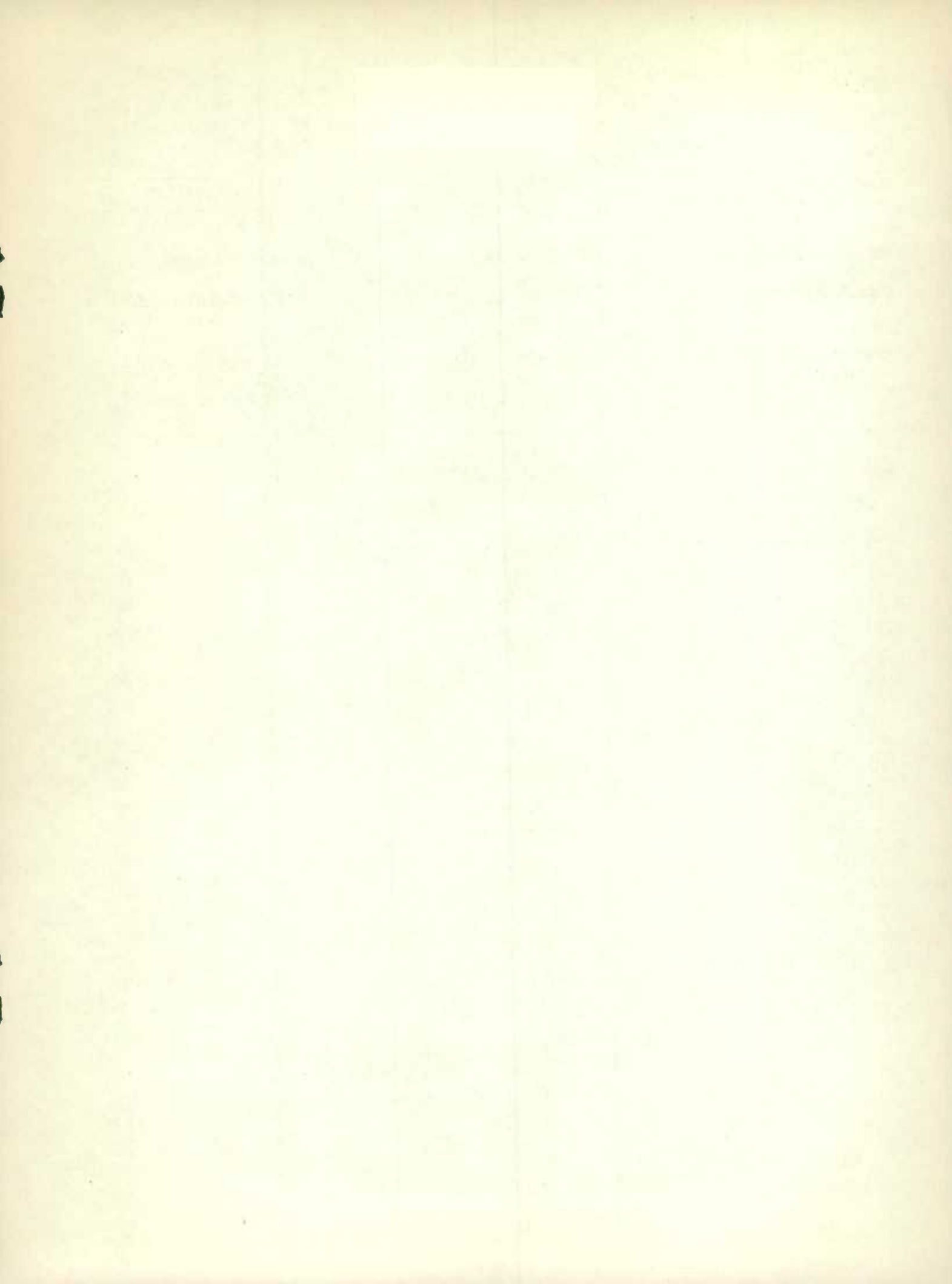
Table 20 - OUTPUT OF THE GYPSUM PRODUCTS INDUSTRY, 1944 and 1945

Product	Unit of measure	1944		1945	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Gypsum wallboard	sq.ft.	179,239,550	3,814,067	133,977,115	3,405,323
Gypsum hard wall plasters	ton	65,580	864,115	67,076	875,529
All other products (*) ..	...	...	399,295	...	1,435,262
TOTAL .....	...	...	5,077,477	...	5,716,114

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

LIST OF FIRMS IN THE GYPSUM PRODUCTS INDUSTRY, 1945

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 Bldg., Winnipeg, Man.	Winnipeg, Man.



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