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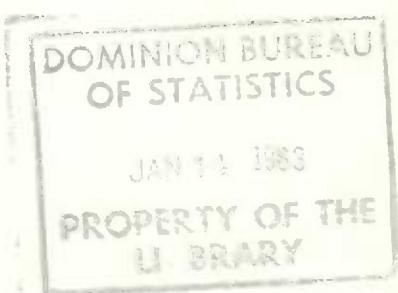
THE GYPSUM MINING INDUSTRY

1961

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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- ... figures not appropriate or not applicable.
- nil or zero.

THE GYPSUM MINING INDUSTRY 1961

This report includes statistics for industry 073—Gypsum Mines of the Standard Industrial Classification Manual (catalogue No. 12-501).

The Canadian producers of crude gypsum and anhydrite shipped 4,940,037 tons valued at \$7,750,748 in 1961 compared with 5,205,731 tons valued at \$9,498,711 in 1960. A large portion of the shipments are inter-plant transactions, thus are assigned nominal values.

Nova Scotian mines and quarries shipped 4,113,188 tons in 1961 compared with 4,490,427 tons in 1960. Shipments increased in British Columbia, Ontario and Newfoundland, declined in New Brunswick and remained the same in Manitoba.

There has been some changes in the methods of compilation of statistics on gypsum. Some firms operate a manufacturing plant, plaster, or wallboard, at or near the quarry. Data on the quarry at such a plant have been included in the manufacturing statistics and are classified to gypsum products industry. Thus the principal statistics of the gypsum mining industry are directly affected by this reclassification. Gypsum was produced by firms classified in the gypsum products industry, thus the commodity figures are larger than the gross value of products shown in the table of principal statistics.

The average number of employees in the gypsum mining industry was 613 to whom \$22,724.77 were

paid as salaries and wages. Fuel and electricity cost \$312,798 which included 8,204,440 kwh. of purchased electricity valued at \$152,952. Process supplies cost \$1,450,653.

Additional information on gypsum is shown in Review 38 published by the Department of Mines & Technical Surveys, Ottawa.

Calcined gypsum or plaster of paris, is the main constituent of gypsum board and lath, gypsum tile, roof tile, and all types of industrial plasters. Gypsum plaster is mixed with water and aggregate (sand, vermiculite or expanded perlite) and applied over wood, metal or gypsum lath to form an interior-wall finish. Gypsum board, lath and sheathing are formed by introducing a slurry consisting of plaster of paris, water, foam, accelerator, etc. between two sheets of absorbent paper, where it sets, producing a firm strong wallboard. Gypsum board and sheathing are used in building-construction industry.

Crude uncalcined gypsum is used in the manufacture of portland cement. The gypsum, acting as a retarder, controls the set of the cement. Crude gypsum, reduced to 40-mesh or finer, is used as a filler in paint and paper. Ground gypsum is used to a limited extent as a substitute for salt cake in glass manufacture. Powdered gypsum is used as a soil conditioner to offset the effect of black alkali, as a means of restoring imperious, dispersed soil, and as a fertilizer for peanuts and other leguminous crops.

TABLE 1. Principal Statistics for the Gypsum Mining Industry, Significant Years, 1921-61

Year	Firms	Mines or quarries	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 production ¹
		number					dollars	
1921	11	11	700	774,551	140,430	428,905	...	1,785,538
1929	17	22	987	1,054,213	281,019	...	...	3,345,696
1931	15	19	676	656,590	188,524	...	...	2,111,517
1933	10	10	415	263,279	91,518	...	...	675,822
1937	8	13	602	595,396	156,115	106,962	1,540,483	1,277,406
1939	10	17	714	692,158	193,488	105,831	1,935,127	1,635,808
1941	8	15	648	745,008	222,564	229,444	2,248,428	1,796,420
1944	8	12	328	490,872	148,743	239,198	1,511,978	1,124,037
1946	8	14	753	1,246,673	260,479	546,092	3,696,727	2,890,156
1949	9	14	925	2,226,703	411,417	1,070,457	5,425,045	3,943,171
1951	8	13	1,018	2,648,803	455,915	1,704,669	5,881,546	3,720,962
1954	9	14	932	2,929,829	355,302	1,811,188	7,095,779	4,929,289
1956	9	15	1,030	3,317,673	454,428	1,903,098	7,260,236	4,902,710
1957	8	13	816	2,653,320	468,366	1,440,177	7,745,105	5,836,562
1958	7	13	627	2,300,288	424,164	841,785	5,189,159	3,923,210
1959	7	15	874	3,228,713	488,175	710,686	8,393,703	7,194,842
1960	7	14	791	2,916,355	474,680	584,727	9,498,711	8,439,304
1961	9 ²	...	613	2,272,477	312,798	1,450,653	6,597,398	4,833,947

¹ Gross production less cost of process supplies, etc., fuel and electricity.² Establishments.

TABLE 2. Producers' Shipments of Gypsum, by Provinces, 1960 and 1961

Province	1960		1961	
	Tons	Value f.o.b. shipping point	Tons	Value f.o.b. shipping point
		\$		\$
Newfoundland	34,346	141,668	40,699	101,696
Nova Scotia	4,490,427	7,515,244	4,113,188	5,693,653
New Brunswick	90,892	267,002	85,330	136,856
Ontario	355,603	871,408	425,287	991,944
Manitoba	122,063	366,189	122,233	366,699
British Columbia	112,400	337,200	153,300	459,900
Totals	5,205,731	9,498,711	4,940,037	7,750,748
Total crude gypsum and anhydrite mined and quarried	5,093,162	...	5,059,758	...
Crude gypsum calcined in firms' own-mills in Canada	436,277	...	470,296	...

TABLE 3. Producers' Shipments of Gypsum, 1952-61

Year	Tons	Value f.o.b. shipping point	Year	Tons	Value f.o.b. shipping point
		\$			\$
1952.....	3,590,783	6,538,074	1957.....	4,577,492	7,745,105
1953.....	3,841,457	7,399,884	1958.....	3,964,129	5,189,159
1954.....	3,950,422	7,094,671	1959.....	5,878,630	8,393,703
1955.....	4,867,901	8,037,153	1960.....	5,205,731	9,498,711
1956.....	4,895,811	7,260,236	1961.....	4,940,037	7,750,748

Note: Figures for 1951-60 are not exactly comparable with those for prior years. See text for change in method of compilation.

TABLE 4. Producers' Shipments of Gypsum, by Months, 1959-61

Month	1959	1960	1961	Month	1959	1960	1961
	tons				tons		
January	313,040	322,122	286,484	August	630,100	571,451	511,966
February	235,991	328,035	146,543	September	654,242	447,240	500,019
March	388,869	295,215	266,809	October	544,727	549,929	535,848
April	488,529	310,254	372,180	November	400,586	473,502	392,276
May	562,120	468,740	460,206	December	348,601	332,230	372,970
June	694,142	520,889	525,118	Totals		5,878,630	5,205,731
July	617,683	586,124	569,618			4,940,037	

TABLE 5. Imports and Exports of Gypsum, 1960 and 1961

	1960		1961	
	Tons	Value	Tons	Value
	\$		\$	
Imports:				
Gypsum, crude, and gypsum, ground, not calcined	60,011	194,549	66,075	217,888
Plaster of Paris and wall plaster	12,494	397,333	9,570	352,244
Total accounted for .....	...	591,882	...	570,132
Exports:				
Gypsum, crude	4,273,668	7,053,690	3,819,345	5,553,551
Plaster of Paris, wall plaster	33	1,501	...	...
Total accounted for .....	...	7,055,191	...	...

TABLE 6. Consumption of Gypsum in the Portland Cement Industry, 1952-61

Year	Tons	Year	Tons
1952.....	161,210	1957.....	287,786
1953.....	193,743	1958.....	293,514
1954.....	210,373	1959.....	278,298
1955.....	219,461	1960.....	262,171
1956.....	234,545	1961.....	297,785

TABLE 7. Consumption¹ of Gypsum in the Gypsum Products Industry, 1952-61

Year	Crude	Calcined	Year	Crude	Calcined
	tons			tons	
1952	630,940	—	1957	831,910	—
1953	772,331	—	1958	971,982	—
1954	767,068	85,978	1959	954,632	—
1955	1,022,893	—	1960	617,685	—
1956	936,624	—	1961	375,514	—

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

TABLE 8. Employees and their Earnings, in the Gypsum Mining Industry, 1957-61

Year	Employees						Man-hours worked	Earnings			
	Administrative and office		Workmen		Total	Administrative and office		Workmen		Total	
	Male	Female	Male	Female				Total			
number											
1957	111	10	693	2	816	1,843,403	526,510	2,126,810	2,653,320		
1958	101	10	514	2	627	1,601,214	521,316	1,778,972	2,300,288		
1959	115	12	745	2	874	1,930,817	618,017	2,610,696	3,228,713		
1960	117	11	661	2	791	1,611,500	626,591	2,289,764	2,916,355		
1961	94	8	510	1	613	1,173,122	500,161	1,772,316	2,272,477		

TABLE 9. Number of Workmen, by Months, in the Gypsum Mining Industry, 1960 and 1961

Month	1960						1961							
	Mine			Mill			Total	Mine		Mill		Total		
	Surface		Under-ground	Male	Female	Male		Surface	Male	Female	Male			
	Male	Female						Male						
January	471	1	72	68	1	613	445	1	42	—	—	488		
February	488	1	72	71	1	633	427	1	33	—	—	461		
March	468	1	72	68	1	610	429	1	37	—	—	467		
April	496	1	66	82	1	646	393	1	57	—	—	451		
May	589	1	61	93	1	745	464	1	59	—	—	524		
June	595	1	57	88	1	742	451	1	63	—	—	515		
July	558	1	46	88	1	694	484	1	67	—	—	552		
August	546	1	46	83	1	677	494	1	66	—	—	561		
September	540	1	49	85	1	676	492	1	63	—	—	556		
October	529	1	50	84	1	665	481	1	68	—	—	550		
November	505	1	52	84	1	643	471	1	67	—	—	539		
December	366	1	52	73	1	493	400	1	57	—	—	458		
Average	522	1	58	81	1	663	454	1	56	—	—	511		
Man hours worked						1,319,468						938,279		

TABLE 10. Fuel and Electricity Used in the Gypsum Mining Industry, 1961

Kind		Quantity	Cost at plant
Bituminous coal (a) From Canadian mines		—	\$ —
(b) Imported		—	—
Sub-bituminous coal (from Alberta mines only)		—	—
Anthracite coal		—	—
Lignite coal		—	—
Coke (for fuel only)		—	—
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	49,760	19,034
Kerosene or coal oil		—	—
Fuel oil	Imp. gal.	887,748	140,812
Wood (cords of 128 cubic feet of piled wood)		—	—
Gas (a) Liquefied petroleum gases (propane, etc.)		—	—
(b) Other manufactured gas		—	—
(c) Natural gas		—	—
Other fuel		—	—
Electricity purchased for power and lighting	kwh.	8,204,440	152,952
Electricity purchased for other purposes		—	—
Total (cost only) .....		...	312,798
Electricity generated (a) For own use		—	...
(b) For sale		—	—

TABLE 11. World Production of Gypsum, by Countries¹
(From a report published by the United States Bureau of Mines)

Country ¹	1956	1957	1958	1959	1960
thousand short tons ²					
North America:					
Canada ³	4,900	4,707	3,977	5,983	5,215
Cuba	24	45 ⁴	45 ⁴	45 ⁴	—
Dominican Republic	84	80	84	175	176 ⁴
Guatemala	—	7	17	17 ⁴	17 ⁴
Jamaica	140	212	645	525	248
Mexico	546	900	821	913	871
Trinidad	1	3	3	5	7
United States	10,316	9,195	9,600	10,900	9,825
Totals^{1,4}	16,011	15,149	15,192	18,563	16,359
South America:					
Argentina	193	169	118	121 ⁴	121 ⁴
Brazil	175	121	143	202	220 ⁴
Chile ⁴	77	66	55	44	40
Colombia	55	66 ⁴	66	77	77
Peru	70	70	69	61	90
Venezuela	—	—	—	1 ⁴	6
Totals^{1,4}	570	492	451	506	554
Europe:					
Austria ³	500	579	597	621	730
Czechoslovakia	192	233	233 ⁴	233 ⁴	233 ⁴
France ³ (saleable)	3,933	4,028	4,079	4,134	4,134 ⁴
Germany, East ³	242	255	249	249 ⁴	248 ⁴
West ³	1,046	982	958	1,058	1,332
Greece	6	6	24	33	39 ⁴
Ireland	132	131	116	141	164
Italy	966	1,053	1,366	1,320 ⁴	1,320 ⁴

See footnotes at end of table.

TABLE 11. World Production of Gypsum, by Countries¹ — Concluded
 (From a report published by the United States Bureau of Mines)

Country ¹	1956	1957	1958	1959	1960
thousand short tons ²					
Europe - Concluded:					
Luxembourg	6	8	9 ⁴	9 ⁴	9 ⁴
Poland	390	390 ⁴	390 ⁴	390 ⁴	440 ⁴
Portugal	61	71	48	60	60 ⁴
Spain	1,301	1,538	2,104	2,357	2,360 ⁴
Switzerland	266	259	99	110 ⁴	110 ⁴
U.S.S.R. ⁶	3,329	3,860 ⁴	3,860 ⁴	3,860 ⁴	3,860 ⁴
United Kingdom ³	3,734	3,751	3,641	3,794	4,016
Yugoslavia	109	93	84	102	117
Totals^{1,4}	16,300	17,325	17,945	18,560	19,265
Asia:					
Burma	—	—	—	2	—
Ceylon	1	1	—	—	—
China ⁴	330	390	440	550	660
Cyprus ⁴	140	160	155	165	165
India	956	1,033	876	945	1,099
Iran ^{4,8}	550	550	413	550	550 ⁴
Iraq ⁴	385	440	440	440	440
Israel ⁴	55	56	44	66	66
Japan	417	527	528	596	832
Pakistan	41	72	74	109	105
Philippines	—	—	2	2	10
Syria ⁹	2	2 ⁴	3 ⁴	7 ⁴	15
Taiwan (Formosa)	14	7	11	11	12
Thailand (Siam)	—	2	10	—	16
Turkey	32 ⁴	42 ⁴	50	57 ⁴	67
Totals^{1,4}	2,923	3,282	3,046	3,509	4,038
Africa:					
Algeria	84	84 ⁴	112 ⁴	189	187 ⁴
Angola	22	8	5	15	14 ⁴
Congo, Republic of the (Belgian)	—	12	11 ⁴	—	—
Egypt	225	1,042	584	577	584
Kenya	2	5	12	15	19
Morocco: Southern Zone	28	28 ⁴	28 ⁴	28 ⁴	28 ⁴
Sudan	2 ⁴	2 ⁴	2 ⁴	2 ⁴	—
Tanganyika	11	11	10	8	5
Tunisia	15	17 ⁴	17 ⁴	17 ⁴	17 ⁴
Union of South Africa (sales and exports)	209	180	256	224	216
Totals	607	1,389	1,037	1,075	1,070⁴
Oceania:					
Australia	524	536	565	579	643 ⁴
New Caledonia	—	—	—	—	—
Totals	524	536	565	579	643⁴
World totals (estimate)^{1,2}	36,935	38,175	38,235	42,790	41,930

¹ Gypsum is produced in Bulgaria, and Rumania, but production data are not available. Estimates for these countries are included in the totals. Production in Ecuador, Finland and Korea is negligible.

² This table incorporates a number of revisions of data published in previous gypsum chapters. Data do not add to totals shown due to rounding where estimated figures are included in the detail.

³ Includes anhydrite.

⁴ Estimate.

⁵ Crude production estimates based on calcined figures.

⁶ Crude production for use in construction industries only. In addition substantial tonnages of gypsum are used in agriculture.

⁷ Less than 500 tons.

⁸ Year ended March 20 of year following that stated.

⁹ Some pure, some 80 per cent gypsum and 20 per cent limestone.

Operators of Gypsum Mines or Quarries, 1961

Name of firm	Head office address	Plant location
Newfoundland:		
Atlantic Gypsum Ltd.	Box 61, Corner Brook	Flat bay
Nova Scotia:		
Canadian Gypsum Co. Ltd.	Box 400, Windsor, N.S.	Wentworth Creek
Little Narrows Gypsum Co. Ltd.	790 Bay St., Toronto, Ontario	Little Narrows
National Gypsum (Canada) Ltd.	Box 70 Dartmouth, N.S.	East Milford Walton, Cheverie
Gypsum, Lime & Alabastine, Canada, Ltd.	Box 506, Station F. Toronto 5, Ontario	Windsor, Nappan
New Brunswick:		
Canada Cement Co. Ltd.	Box 490, Station B, Montreal, Quebec	Westmorland
Canadian Gypsum Co. Ltd.	Box 4034, Postal Station A, Toronto, Ontario	Hillsborough
Ontario:		
Canadian Gypsum Co. Ltd.	Box 4034, Postal Station A, Toronto, Ont.	Hagersville
Gypsum, Lime & Alabastine, Canada, Ltd.	Box 98, Station F, Toronto, Ont.	Caledonia
Manitoba:		
Gypsum, Lime & Alabastine, Canada Ltd.	Box 506, Station F, Toronto, Ontario	Gypsumville
Western Gypsum Products Ltd.	306 Electric Railway Chambers, Winnipeg, Man.	Amaranth
British Columbia:		
Western Gypsum Products Ltd.	306 Electric Chambers, Winnipeg, Manitoba ...	Windermere

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