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THE ASBESTOS MINING INDUSTRY 1951

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I—Mineral Statistics
- Part II—Forestry Statistics—Operations in the Woods
- Part III—Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A—General Review of the Mining Industry, 50¢.
- B—The Gold Mining Industry, 50¢.
- C—The Silver-Lead-Zinc Mining Industry, 25¢.
- D—The Nickel-Copper Mining, Smelting and Refining Industry, 25¢.
- E—The Miscellaneous Metal Mining Industry, 25¢.
- F—The Non-ferrous Smelting and Refining Industry, 25¢.
- G—The Coal Mining Industry, \$1.00.
- H—The Crude Petroleum and Natural Gas Industry, 25¢.
- I—The Asbestos Mining Industry, 25¢.
- J—The Feldspar and Quartz Mining Industry, 25¢.
- K—The Gypsum Industry, 25¢.
- L—The Peat Industry, 25¢.
- M—The Salt Industry, 25¢.
- N—The Talc and Soapstone Industry, 25¢.
- O—The Miscellaneous Non-Metal Mining Industry, 25¢.
- P—The Cement Manufacturing Industry, 25¢.
- Q—The Clay and Clay Products Industry, 25¢.
- R—The Lime Industry, 25¢.
- S—The Sand and Gravel Industry, 25¢.
- T—The Stone Industry, 25¢.
- U—Contract Diamond Drilling in the Mining Industry, 25¢.

THE ASBESTOS MINING INDUSTRY

1951

Producers of asbestos in Canada shipped, in 1951, a record of 973,198 tons valued at \$81,584,345 compared with 875,344 tons valued at \$65,854,568 in the preceding year.

The asbestos mining industry employed 5,923 persons to whom \$20,024,208 were distributed in salaries and wages in 1951. Fuel and electricity cost \$2,988,149 which included 228,599,784 k.w.h. of purchased electricity valued at \$1,635,696. Process supplies and containers cost \$10,085,645.

The major portion of the asbestos was mined in the Eastern Townships of Quebec. Ontario's asbestos was mined in Munro Township with a small

amount from the Porcupine area. Development work was done on the asbestos deposit in the McDame Lake area of Northern British Columbia.

Asbestos is used for a wide variety of purposes, the principal products being cloth, brake linings, clutch facings, packings, insulation, mill-board, siding, shingles, roofing, tile and pipes.

Price quotations per ton, in December 1951, were: Crude No. 1, \$960-\$1,500; crude No. 2, \$595-\$900; spinning fibres, \$275-\$475; shingle fibres, \$123-\$370; paper stock, \$85-\$119; waste, \$63-\$70; shorts, \$30-\$63.

TABLE 1. Principal Statistics of the Asbestos Mining Industry, 1949-1951

	1949	1950	1951
Number of firms	15	15	21
Number of employees:			
Administrative	624	663	745
Workmen	3,429	4,889	5,178
Total	4,053	5,552	5,923
Salaries and wages:			
Salaries	\$ 1,892,068	2,203,603	2,824,100
Wages	\$ 8,677,003	13,645,226	17,200,108
Total	\$ 10,569,071	15,848,829	20,024,208
Selling value of products ¹ shipped	\$ 39,784,651	65,908,396	81,624,009
Cost of purchased fuel and electricity	\$ 1,499,439	2,560,476	2,988,149
Cost of process supplies ²	\$ 2,556,226	4,257,597	5,493,491
Cost of containers	\$ 2,112,643	3,449,514	4,592,154
Net value of production ³	\$ 33,616,343	55,640,809	68,550,215

¹. Includes value of sand and gravel.

². Explosives, drill steel, etc.

³. Value of shipments less cost of fuel, electricity and process supplies.

TABLE 2. Production and Shipments of Asbestos by Canadian Mines, 1950 and 1951

Grade	1950			1951		
	Production	Shipments		Production	Shipments	
		Quantity	Selling value, f.o.b. shipping point ¹		Quantity	Selling value, f.o.b. shipping point ¹
	tons	tons	\$	tons	tons	\$
Crude - No. 1, No. 2, and other	780	904	587,569	861	748	568,725
Milled - Group 3 (Spinning)	33,225	33,955	9,735,511	33,199	33,136	10,494,587
Group 4 (Shingle)	164,793	164,861	21,731,698	187,138	188,130	27,780,601
Group 5 (Paper)	103,331	106,378	9,535,576	112,344	111,735	11,124,444
Group 6 (Stucco)	179,294	175,743	10,990,538	222,531	223,471	15,965,603
Group 7 (Refuse)	358,828	363,179	12,759,460	406,823	386,823	15,085,973
Group 8 (Sand)	30,565	30,324	514,216	28,870	29,155	564,412
Total, all grades	870,816	875,344	65,854,568	991,766	973,198	81,584,345
Gravel and stone (waste rock only) ²	48,007	48,007	53,828	33,762	33,762	39,664

1. Includes value of containers amounting to \$3,449,514 in 1950 and \$4,592,154 in 1951.

2. This production is included in the Sand and Gravel Industry.

TABLE 3. Tonnage of Asbestos Rock Mined and Milled, 1948-1951

	1948	1949	1950	1951
Rock mined.....	10,759,016	8,218,045	12,210,780	12,623,529
Rock milled	7,894,461	5,671,085	8,635,036	10,219,658

TABLE 4. Shipments of Asbestos by Canadian Mines, 1942-1951

Year	Tons	Selling value at works	Year	Tons	Selling value at works
		\$			\$
1942.....	439,459	22,663,283	1947	661,821	33,005,748
1943.....	467,196	23,169,505	1948	716,769	42,231,475
1944.....	419,265	20,619,516	1949	574,906	39,746,072
1945.....	466,896	22,805,157	1950	875,344	65,854,568
1946.....	558,181	25,240,562	1951	973,198	81,584,345

TABLE 5. Shipments of Asbestos by Canadian Mines, by Months, 1950 and 1951

Month	1950	1951	Month	1950	1951
	tons			tons	
January	57,172	74,125	August	71,519	80,398
February	57,961	71,463	September	92,215	82,479
March	68,356	94,905	October	96,610	82,504
April	68,730	86,767	November	89,678	85,623
May	71,772	93,241	December	76,161	67,676
June	67,781	82,990			
July	57,389	71,027	Total	875,344	973,198

TABLE 6. Number of Workmen, by Months, 1950 and 1951 (Administration and office employees not included)

Month	Mine			Mill		Total	
	Surface		Underground	Male	Female		
	Male	Female	Male				
1950							
January	1,850	28	1,019	1,807	3	4,707	
February	1,863	28	1,029	1,804	3	4,727	
March	1,896	27	1,042	1,839	3	4,807	
April	1,935	28	1,031	1,833	3	4,830	
May	1,940	29	1,061	1,868	3	4,901	
June	1,965	29	1,057	1,868	3	4,922	
July	1,990	27	1,003	1,911	3	4,934	
August	1,941	30	1,016	1,912	3	4,902	
September	1,977	28	1,036	1,924	3	4,968	
October	1,976	30	1,060	1,922	3	4,991	
November	1,964	28	1,085	1,933	3	5,013	
December	1,944	29	1,071	1,890	3	4,937	
Average	1,940	28	1,042	1,876	3	4,889	
1951							
January	1,888	28	1,107	1,971	2	4,996	
February	1,847	28	1,123	1,993	2	4,993	
March	1,864	22	1,147	1,998	2	5,033	
April	1,877	20	1,140	2,037	2	5,076	
May	1,945	27	1,142	2,046	2	5,162	
June	2,005	27	1,133	2,074	2	5,241	
July	1,973	28	1,155	2,069	2	5,226	
August	2,025	21	1,149	2,074	2	5,271	
September	2,010	19	1,132	2,108	2	5,271	
October	1,989	20	1,123	2,112	2	5,246	
November	2,049	24	1,133	2,126	2	5,334	
December	2,013	24	1,137	2,102	2	5,278	
Average	1,957	25	1,135	2,059	2	5,178	
				Administrative and office	Workmen		
Total man-hours worked, 1951				1,714,314	12,622,744		

TABLE 7. Taxes Paid by the Asbestos Mining Industry, 1950 and 1951

	1950	1951
	\$	\$
Dominion income tax, including tax on non-operating revenue.....	5,809,382	10,135,132
Provincial taxes:		
Mining taxes paid on net profits from production, including portion paid to municipality	1,580,920	2,006,843
Corporation income tax where levied in addition to mining tax	26,756	26,107
Taxes paid on capital and places of business	25,641	52,658
Acreage taxes	1,876	2,520
Total provincial	1,635,193	2,088,128
Municipal taxes:		
Based on property evaluation	403,050	434,394
Grand total taxes paid	7,847,625	12,657,634

**TABLE 8. Specified Miscellaneous Expenditures by the Asbestos Mining Industry,
1949-1951**

—	1949	1950	1951
	\$	\$	\$
Workmen's compensation	367,005	321,471	360,953
Silicosis assessment	—	9,986	10,030
Unemployment insurance	69,492	121,247	146,257
Aggregate cost of all supplies purchased	4,711,991	7,939,233	10,831,083
Aggregate cost of plant and equipment purchased	1,886,039	3,092,303	4,624,730
Cost of buildings, machinery and equipment, erected or installed during the year	3,837,299	4,785,256	5,754,424

**TABLE 9. Imports and Exports of Asbestos and Asbestos Products,
1950 and 1951**

	1950		1951	
	Tons	\$	Tons	\$
Imports				
Asbestos clutch facings for automobiles, motor vehicles and chassis	—	285,222	—	275,921
Asbestos brake linings for automobiles, motor vehicles and chassis	—	461,938	—	627,797
Asbestos brake linings and clutch facings, n.o.p.	—	53,304	—	105,429
Asbestos in any other form than crude, and all manufactures of, n.o.p.	—	1,651,888	—	2,159,662
Asbestos packing	167	179,000	206	259,644
Total	—	2,631,352	—	3,428,469
Exports				
Asbestos (crude)	845	543,645	660	548,403
Asbestos milled fibres	289,798	39,113,651	324,594	48,854,569
Asbestos waste, refuse and shorts	539,336	23,094,208	617,060	30,929,859
Asbestos brake lining facings	—	346,023	—	742,552
Asbestos packing	—	17,479	—	33,332
Asbestos manufactures, n.o.p.	—	359,891	—	722,101
Total	—	63,474,897	—	81,830,822

TABLE 10. World Production of Asbestos by Countries¹, 1947-1950

(Taken from the "Minerals Year Book" by the United States Bureau of Mines)

Country ¹	1947	1948	1949	1950
Metric tons				
Argentina.....	2	2	2	2
Australia:				
New South Wales	290	330	284	289 ³
South Australia.....	40	41	17	2
Western Australia	1,069	977	1,318	494 ³
Bolivia (exports)	141	147	182	2
Brazil.....	2,631	1,304	2	2
Canada (sales) ⁴	600,391	650,239	521,543	794,095
Chile	2	150	291	2
Cyprus	6,795	8,106	12,556	2
Egypt	1,015	1,625	117	260
Finland ⁵	6,351	10,818	8,395	2
France	934	104	1,059	2
French Indochina	—	—	2	2
French Morocco	825	399	402	511
India	123	28	148	2
Italy	10,719	13,044	15,365	21,433
Japan	4,249	4,809	5,456	4,948
Kenya.....	582	510	716	2
Korea:				
Northern.....	2	2	2	2
Southern.....	—	—	—	2
Madagascar	6	6	2	2
New Zealand.....	—	—	—	2
Portugal.....	91	414	101	271
Southern Rhodesia	49,073	62,502	72,246	64,888
Spain	—	35	40	2
Swaziland	25,360	29,421	30,814	29,635
Switzerland	—	—	—	2
Turkey	36	203	170	2
Union of South Africa	27,344	41,490	64,334	79,298
United States	21,804	33,649	39,360	38,495
Venezuela	240	192	192	2
Total (estimate)	872,000	995,000	895,000	1,206,000

1. In addition to countries listed, asbestos is produced in Algeria, Bulgaria, China, Czechoslovakia, Uganda and U.S.S.R. Estimates are included in totals.

2. Data not available; estimate included in total.

3. January to June inclusive.

4. Exclusive of sand, gravel and stone (waste rock only).

5. Includes asbestos flour.

6. Less than 0.5 ton.

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Directory of Firms in the Asbestos Mining Industry, 1950

Name of firm	Head office or general office	Location of mine
Quebec:		
Asbestos Corporation Ltd	Thetford Mines	Thetford Mines, Black Lake, Coleraine
Asbestos Producers Corporation ¹	1410 Stanley St., Montreal	Coleraine
Bell Asbestos Mines Ltd	Thetford Mines	Thetford Township
Canadian Johns-Manville Co. Ltd	Sun Life Building, Montreal	Asbestos
Continental Asbestos Co. Ltd ¹	508 Continental Bldg., Sherbrooke	Coleraine
Douville & McLeod ¹	50 Falardeau St., Thetford Mines	Coleraine
Flintkote Mines Ltd	Thetford Mines	Thetford Mines
Golden Age Mines Ltd ¹	85 Richmond St. W., Toronto, Ontario ...	Beauceville
Johnson's Company	Thetford Mines	Thetford Mines, Coleraine
Nicolet Asbestos Mines Ltd	Norbestos, Warwick	Norbestos
Pittsco Explorations Ltd ¹	Box 773, Garthby, P.Q.	Thetford, Broughton
Paradis, J. Albert ¹	139, rue St-Thomas, Thetford Mines	Thetford
La Cie D'Amiante St-Laurent Ltée	St-Odilon, Dorchester	Dorchester
Quebec Asbestos Corp. Ltd	East Broughton Station	East Broughton Station
Standard Asbestos Mines Ltd ¹	97, rue St-Pierre, Québec	Beauce
United Asbestos Corp. Ltd ¹	132 St. James St. W., Montreal	Black Lake
Ontario:		
Canadian Johns-Manville (Ontario) Ltd....	Matheson	Munro Township
Chrysotile Asbestos Corp. of Canada Ltd ¹	36 Toronto St., Toronto	Montrose Township
Colonial Asbestos Corp. Ltd ¹	144 King St. W., Kitchener	Munro Township
Teegana Mines Ltd ¹	25 First Ave., Shumacher	Deloro Township
Van Packer Mines of Canada Ltd	Box 1000, South Porcupine	Deloro Township
British Columbia:		
Cassiar Asbestos Corp. Ltd ¹	85 Richmond St. W., Toronto, Ontario ...	McDame
Pacific Asbestos Corp. Ltd ¹	525 Seymour St., Vancouver	Revelstoke

1. Carried on exploration or development work only.