

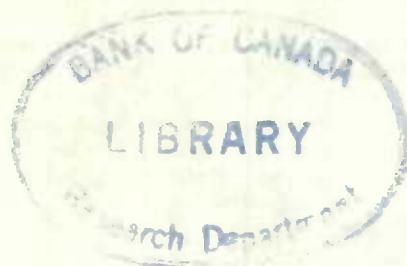
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~~Mr. Dick~~

AUG 28 1958



# THE ASBESTOS MINING INDUSTRY 1957



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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** — The Primary Industries, including mining, forestry and fisheries; **Volume II** — Manufacturing; **Volume III** — 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¢
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- F — The Miscellaneous Metal Mining Industry, 25¢
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- M — The Peat Industry, 25¢
- N — The Salt Industry, 25¢
- O — The Talc and Soapstone Industry, 25¢
- P — The Miscellaneous Non-metal Mining Industry, 25¢
- Q — The Cement Manufacturing Industry, 25¢
- R — The Clay and Clay Products Industry, 25¢
- S — The Lime Industry, 25¢
- T — The Sand and Gravel Industry, 25¢
- U — The Stone Industry, 25¢
- V — Contract Drilling in the Mining Industry, 25¢

# THE ASBESTOS MINING INDUSTRY

## 1957

During 1957 the producers of asbestos in Canada shipped 1,046,086 short tons of asbestos valued at \$104,489,431 compared with 1,014,249 tons valued at \$99,859,969 in the preceding year. These figures exclude the value of containers. The quantity of asbestos increased 3.1 per cent and the value increased 4.6 per cent.

The largest producing area continued to be in the eastern townships of Quebec in the vicinities of Thetford Mines, Black Lake, East Froughton and Danville. Ontario's production came from Munro township. In northern British Columbia the Cassiar Asbestos Corporation milled asbestos ore. Development work was done in northern Quebec and in Newfoundland.

The industry employed an average of 7,357 persons at the mines and milling plants. The salaries and wages paid amounted to \$32,283,287. Fuel and electricity cost \$6,008,420 which included 422,839,094 kwh. of purchased electricity valued

at \$3,197,971. Process supplies and containers cost \$14,558,214.

Asbestos has a variety of industrial uses. The longer-fibred spinning material is formed into textiles, packing and certain insulating and heat-resisting friction materials. Other fibres are used in the asbestos cement industry for the production of pipe, shingle, tile, millboard, siding, roofing, etc., and for the production of asbestos paper. The short-fibred material is used in protective coatings, plastics, in the manufacture of lubricating greases and in a number of specialized applications where it has characteristics desired as an industrial filler.

Price quotations in Engineering and Mining Journal for December 1957 were: Canadian dollars per ton: crude No. 1, \$1,470-\$1,810; crude No. 2, \$788-\$1,155; spinning fibres, \$353-\$593; shingle fibers, \$190-\$220; paper stock, \$120-\$142; waste, \$82-\$86; shorts, \$27-\$75.

**TABLE 1. Principal Statistics for the Asbestos Mining Industry, Significant Years, 1921-1957**

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies and containers at works	Gross selling value of products (f.o.b. works)	Net value of production <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1921 .....	15	2,694	2,657,425	737,689	N.A.	4,906,230	N.A.
1929 .....	8	3,391	4,410,535	1,335,610	"	13,179,884	"
1931 .....	8	1,675	1,836,115	849,047	"	4,818,838	"
1933 .....	8	1,629	1,279,093	771,327	"	5,211,177	"
1937 .....	11	3,842	4,232,507	1,346,434	2,729,801	14,509,092	10,432,857
1939 .....	9	3,784	4,347,064	1,376,568	2,086,945	15,862,142	12,398,629
1941 .....	10	3,760	4,996,101	1,524,450	2,721,796	21,475,645	17,229,399
1944 .....	10	4,050	6,401,185	1,635,829	2,380,230	21,836,376	17,820,317
1946 .....	12	4,547	7,771,921	1,759,462	3,216,430	25,245,579	20,269,687
1949 .....	17	4,053	10,569,071	1,499,439	4,668,869	39,784,651	33,616,343
1951 .....	24	5,923	20,024,208	2,988,149	10,085,645	81,624,009	68,550,215
1953 .....	24	6,482	24,567,463	3,783,653	10,305,046	86,078,924	71,990,225
1954 .....	25	6,563	24,850,100	4,130,806	9,924,166	86,441,436	72,386,464
1955 .....	30	6,729	28,116,049	5,117,137	11,180,264	99,675,651	83,378,250
1956 .....	23	7,065	30,411,878	5,541,309	12,335,772	103,304,309	85,427,228
1957 .....	22	7,357	32,283,287	6,008,420	14,558,214	108,014,041	87,447,407

<sup>1</sup> Gross value less cost of fuel, electricity, process supplies and containers.

TABLE 2. Production and Shipments of Asbestos by Canadian Mines, 1956 and 1957

Grade	1956			1957		
	Production	Shipments		Production	Shipments	
		Quantity	Selling value less containers <sup>1</sup>		Quantity	Selling value less containers <sup>1</sup>
Crude—No. 1, No. 2, and other .....	tons 728	tons 717	\$ 692,677	tons 649	tons 622	\$ 589,410
Milled—Group 3 (spinning) .....	37,754	33,929	14,071,703	34,220	34,320	14,210,634
Group 4 (shingle) .....	265,477	246,295	42,124,569	256,825	259,268	45,848,069
Group 5 (paper) .....	114,505	112,759	13,200,835	109,556	110,428	13,161,082
Group 6 (stucco) .....	174,523	168,942	12,685,874	155,793	159,098	12,222,231
Group 7 (refuse) .....	427,360	428,159	16,676,452	466,175	460,539	18,041,742
Group 8 (sand) .....	22,704	23,448	407,859	21,868	21,811	416,263
Total, all grades .....	1,043,051	1,014,249	99,859,969	1,045,086	1,046,086	104,489,431
Gravel and stone (waste rock only) <sup>2</sup> .....	45,428	45,428	52,507	13,647	13,652	18,455

<sup>1</sup> The value of containers amounted to \$3,391,833 in 1956 and \$3,506,165, in 1957.<sup>2</sup> This production is included in the Sand and Gravel Industry.

TABLE 3. Tonnage of Asbestos Rock Mined and Milled, 1953-1957

	1953	1954	1955	1956	1957
Rock mined .....	13,912,839	14,793,760	17,696,357	21,922,874	22,610,742
Rock milled .....	11,189,027	11,394,571	12,427,002	13,740,326	14,096,117

TABLE 4. Shipments of Asbestos by Canadian Mines, 1948-1957

Year	Tons	Selling value at works \$	Year	Tons	Selling value at works \$
1948 .....	716,769	42,231,475	1953 .....	911,226	86,052,895
1949 .....	574,906	39,746,072	1954 .....	924,116	86,409,212
1950 .....	875,344	65,854,568	1955 .....	1,063,802	96,191,317 <sup>1</sup>
1951 .....	973,198	81,524,345	1956 .....	1,014,249	99,859,969 <sup>1</sup>
1952 .....	929,339	89,254,913	1957 .....	1,046,086	104,489,431 <sup>1</sup>

<sup>1</sup> Value of containers excluded in 1955-1957 but included in preceding years.

TABLE 5. Shipments of Asbestos by Canadian Mines, by Months, 1956 and 1957

Month	1956	1957	Month	1956	1957
tons					
January .....	58,550	59,694	August .....	98,316	95,949
February .....	67,853	77,249	September .....	81,953	135,692
March .....	76,778	69,689	October .....	90,920	88,991
April .....	99,558	107,066	November .....	111,645	93,770
May .....	101,934	100,362	December .....	60,458	50,589
June .....	79,773	83,946	Total .....	1,014,249	1,046,086
July .....	86,511	83,089			

TABLE 6. Imports and Exports of Asbestos and Asbestos Products, 1956 and 1957

Item	1956		1957	
	Tons	\$	Tons	\$
<b>Imports</b>				
Asbestos clutch facings for automobiles, motor vehicles and chassis..	...	394,673	...	329,426
Asbestos brake linings for automobiles, motor vehicles and chassis ..	...	486,776	...	432,495
Asbestos brake linings and clutch facings, n.o.p.....	...	224,704	...	186,379
Asbestos in any other form than crude, and all manufacture of, n.o.p..	...	3,951,187	...	3,912,050
Asbestos packing .....	203	326,295	185	296,701
<b>Total accounted for .....</b>	...	<b>5,383,635</b>	...	<b>5,157,051</b>
<b>Exports</b>				
Asbestos (crude).....	560	526,215	638	567,731
Asbestos milled fibres .....	377,044	69,027,600	393,311	73,948,689
Asbestos waste, refuse and shorts.....	586,317	30,341,032	636,611	32,541,989
Asbestos brake lining facings.....	...	613,267	...	537,872
Asbestos packing .....	...	43,098	...	14,153
Asbestos manufactures, n.o.p. ....	...	3,086,863	...	1,328,072
<b>Total accounted for .....</b>	...	<b>103,638,075</b>	...	<b>108,938,506</b>

TABLE 7. Taxes Paid by the Asbestos Mining Industry, 1956 and 1957

	1956	1957
	\$	\$
Dominion income tax, including tax on non-operating revenue .....	8,561,616	7,623,668
Provincial taxes:		
Mining taxes paid on net profits from production, including portion paid to municipality	2,468,871	2,251,103
Taxes paid on capital and places of business .....	94,098	94,215
Acreage taxes and royalties .....	2,805	839
Corporation income tax .....	—	755,942
<b>Total provincial .....</b>	<b>2,565,774</b>	<b>3,102,099</b>
Municipal taxes:		
Based on property evaluation .....	540,879	1,326,023
Based on non-operating revenue .....	5,773	5,744
<b>Total municipal .....</b>	<b>546,652</b>	<b>1,331,767</b>
<b>Grand total taxes paid .....</b>	<b>11,674,042</b>	<b>12,057,534</b>

TABLE 8. Specified Miscellaneous Expenditures by the Asbestos Mining Industry, 1955-1957

	1955	1956	1957
	\$	\$	\$
Workmen's compensation .....	392,694	504,664	624,513
Silicosis assessment.....	10,139	10,817	24,265
Unemployment insurance.....	174,685	212,030	2,555,487
Aggregate cost of all supplies purchases .....	19,268,357	18,681,791	19,288,136
Aggregate cost of plant and equipment purchases .....	10,528,490	8,376,077	17,238,583
Cost of buildings, machinery and equipment erected or installed during the year .....	14,181,462	15,067,243	22,433,636
Capital expenditures, not shown above .....	...	4,622,542	6,608,634

TABLE 9. Estimated Capital and Repair Expenditures<sup>1</sup>, 1953-1957

	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Construction	Machinery	Total	Construction	Machinery	Total	Construction	Machinery	Total
thousands of dollars									
1953 .....	12,061	8,067	20,128	1,143	5,175	6,318	13,204	13,242	26,446
1954 .....	8,090	15,507	23,597	1,417	5,320	6,737	9,507	20,827	30,334
1955 .....	9,912	6,604	16,516	1,754	5,933	7,687	11,666	12,537	24,203
1956 .....	12,122	7,072	19,194	1,938	6,525	8,463	14,060	13,597	27,657
1957 .....	17,920	9,345	27,265	1,765	7,312	9,077	19,685	16,657	36,342

<sup>1</sup> Source: *Private and Public Investment in Canada*.<sup>2</sup> Preliminary figures.

TABLE 10. Employees and Their Earnings in the Asbestos Mining Industry, 1953-1957

Year	Number of employees					Number of man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total		Office and administrative	Workmen	Total	
	Male	Female	Male	Female						
1953 .....	761	109	5,582	30	6,482	13,934,305	3,766,891	20,800,572	24,567,463	
1954 .....	799	104	5,626	34	6,563	13,846,938	4,022,507	20,827,593	24,850,100	
1955 .....	819	124	5,764	22	6,729	15,165,117	4,626,636	23,489,413	28,116,049	
1956 .....	897	132	6,009	27	7,065	15,199,540	5,303,697	25,108,181	30,411,878	
1957 .....	1,043	133	6,153	28	7,357	15,529,434	6,159,119	26,124,168	32,283,287	

TABLE 11. Number of Workmen, by Months, 1956 and 1957 (Administration and office employees not included)

Month	1956		1957					
	Total	Surface	Mine		Mill		Total	
			Male	Female	Underground	Male		
			Male	Female	Male	Male		
January .....	5,816	2,847	24		1,029	2,051	4	5,955
February .....	5,829	2,909	23		1,027	2,053	4	6,016
March .....	5,872	2,947	24		1,105	2,049	4	6,129
April .....	6,002	2,978	23		1,171	2,069	5	6,246
May .....	6,184	3,153	23		1,163	2,067	5	6,411
June .....	6,292	3,327	22		1,211	2,082	4	6,646
July .....	6,436	3,268	23		1,219	1,951	4	6,465
August .....	6,119	3,300	25		1,181	1,921	4	6,431
September .....	6,109	3,095	24		1,169	1,951	4	6,243
October .....	6,006	3,068	24		1,121	1,905	4	6,122
November .....	5,927	3,019	24		1,123	1,869	4	6,039
December .....	5,845	3,053	23		1,079	1,814	4	5,973
Average .....	6,036	3,081	24		1,132	1,940	4	6,181
Man-hours worked .....	13,249,259							13,430,060

TABLE 12. Fuel and Electricity Used in the Asbestos Mining Industry, 1957

	Kind		Quantity	Cost at plant
Bituminous coal (a) From Canadian mines .....	short ton	10,658	151,133	
(b) Imported .....	"	7,769	118,262	
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	
Anthracite coal .....	"	22,400	343,371	
Lignite coal .....	"	—	—	
Coke (for fuel only) .....	"	—	—	
Gasoline, (includes gasoline used in cars and trucks) .....	Imp. gal.	514,938	204,916	
Kerosene or coal oil .....	"	17,659	4,329	
Fuel oil .....	"	11,149,624	1,916,164	
Wood (cords of 128 cubic feet of piled wood) .....	cord	4,136	58,084	
Gas (a) Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	20,430	13,660	
(b) Other manufactured gas .....	M cu. ft.	—	—	
(c) Natural gas .....	"	—	—	
Other fuel .....	"	—	530	
Electricity purchased for power and lighting .....	kwh.	422,839,094	3,197,971	
Electricity purchased for other purposes .....	"	—	—	
Total (cost only) .....		...	6,008,420	
Electricity generated (a) For own use .....	kwh.	7,759,980	—	
(b) For sale .....	"	—	—	

TABLE 13. World Production of Asbestos by Countries<sup>1</sup>

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

Country <sup>4</sup>	1952	1953	1954	1955	1956
short tons <sup>2</sup>					
North America:					
Canada (sales) <sup>5</sup>	929,339	911,226	924,116	1,063,802	1,014,229
United States (sold or used)	53,864	54,456	47,621	44,580	41,312
Total	983,203	965,682	971,737	1,108,382	1,055,541
South America:					
Argentina	4	4	4	198	50
Bolivia (exports)	513	810	33	—	62
Brazil	1,439	1,357	2,816	3,124	3,300
Chile	4	4	4	4	6
Venezuela	434	185	743	1,757	5,820
Total <sup>6</sup>	2,800	2,800	4,000	5,300	9,500
Europe:					
Bulgaria	4	992	1,213	1,323	4
Finland <sup>7</sup>	11,464	12,047	7,853	18,674	8,282
France	8,338	11,419	14,449	10,913	9,370
Greece	26	1	6	3	6
Italy	26,387	22,484	25,955	33,266	36,459
Portugal	185	105	30	56	55 <sup>8</sup>
Spain	33	—	176	—	—
U.S.S.R. <sup>9</sup>	240,000	240,000	240,000	240,000	240,000
Yugoslavia	2,762	4,131	3,598	4,305	4,165
Total <sup>1,5</sup>	290,000	290,000	300,000	310,000	305,000
Asia:					
Cyprus	18,250	15,966	17,146	17,143	14,005 <sup>7</sup>
India	969	805	435	1,564	1,343
Iran	55	—	—	110	39
Japan	3,370	4,495	6,916	6,932	9,914
Korea	—	—	233	66	54
Tajwan (Formosa)	26	—	163	405	118
Turkey	—	—	50	259	176
Total <sup>1,5</sup>	25,000	27,000	33,000	38,000	37,000
Africa:					
Bechuanaland	528	548	729	1,426	1,356
Egypt	66	220	—	—	—
French Morocco	635	600	597	631	379
Kenya	390	166	224	152	170
Madagascar	3	8	—	—	—
Mozambique	—	—	196	301	202
Rhodesia and Nyasaland, Federation of:					
Southern Rhodesia	84,834	87,739	79,962	105,261	118,973
Swaziland	34,769	30,104	30,142	32,613	29,875
Uganda	—	—	7	2	2
Union of South Africa	133,839	94,817	109,151	119,699	136,520
Total	255,064	214,202	221,008	260,085	287,477
Oceania:					
Australia	4,546	5,567	5,279	5,993	9,857
New Zealand	764	—	—	172	368
Total	5,310	5,567	5,279	6,165	10,225
World total (estimate) <sup>1</sup>	1,500,000	1,505,000	1,535,000	1,730,000	1,705,000

<sup>1</sup> In addition to countries listed, asbestos is produced in China, Czechoslovakia, and North Korea. Estimates are included in the total.<sup>2</sup> This table incorporates a number of revisions of data published in previous asbestos chapters.<sup>3</sup> Exclusive of sand, gravel and stone (waste rock only), production of which is reported as follows: 1952, 20,664 tons; 1953, 21,118 tons; 1954, 26,429 tons; 1955, 28,582; 1956, 45,428 tons.<sup>4</sup> Data not available; estimate included in total.<sup>5</sup> Estimate.<sup>6</sup> Includes asbestos flour.<sup>7</sup> Exports.

**Canadian Chrysotile Asbestos Classification —**  
 (List of Standard Grades set up by the Committee on Uniform Classification and Grading of Asbestos Mines Products. This committee was formed in 1931 at the instigation of the Minister of Mines of the Province of Quebec, and the list of grades has been revised from time to time.)

The asbestos mines products are divided into two classes: "Crude Asbestos" and "Milled Asbestos", respectively, defined as follows:

"Crude Asbestos" consists of the hand-selected cross-vein material essentially in its native or unfiberized form.

"Milled Asbestos" consists of all grades produced by mechanical treatment of asbestos ore.

"Crude Asbestos" and "Milled Asbestos" are sub-divided into groups designated and defined below.

Classification of the "Milled Asbestos" grades, in groups Nos. 3 to 7, inclusive, unless otherwise specified, is based on the Quebec Standard Testing Machine.

"Shipping Test" is the average for each carload or smaller shipment of tests representative samples taken at the time of shipping.

"Guaranteed Minimum Shipping Test" is that below which the actual shipping test shall not fall.

#### Crudes:

Group No. 1, Crude No. 1.	Consists basically of crude $\frac{3}{4}$ inch staple and longer.
Group No. 2, Crude No. 2.	Consists basically of crude $\frac{3}{8}$ inch staple up to $\frac{3}{4}$ inch.
Crude run-of-mine	Consists basically of unsorted crudes.
Crudes, sundry	Consists of crudes other than above specified.

#### Fibres:

Standard designation of grades	Guaranteed Minimum shipping test			
	$\frac{1}{2}$ -inch screen	4-mesh screen	10-mesh screen	Pan
Group No. 3 .....	3F	7	7	1.5
	3K	4	7	4
	3R	2	8	4
	3T	1	9	4
	3Z	0	8	6
Group No. 4 .....	4H	0	5	8
	4K	0	4	9
	4M	0	4	8
	4R	0	3	9
	4T	0	2	10
	4Z	0	1.5	9.5
Group No. 5 .....	5D	0	0.5	10.5
	5K	0	0	12
	5M	0	0	11
	5R	0	0	10
Group No. 6 .....	6D	0	0	7
Group No. 7* .....	7D	0	0	5
	7F	0	0	4
	7H	0	0	3
	7K	0	0	2
	7M	0	0	1
	7R	0	0	0
	7T	0	0	0
Group No. 8 .....	8S	Under 75 pounds per cubic foot loose measure.		
Group No. 9 .....	9T	Over 75 pounds per cubic foot loose measure.		

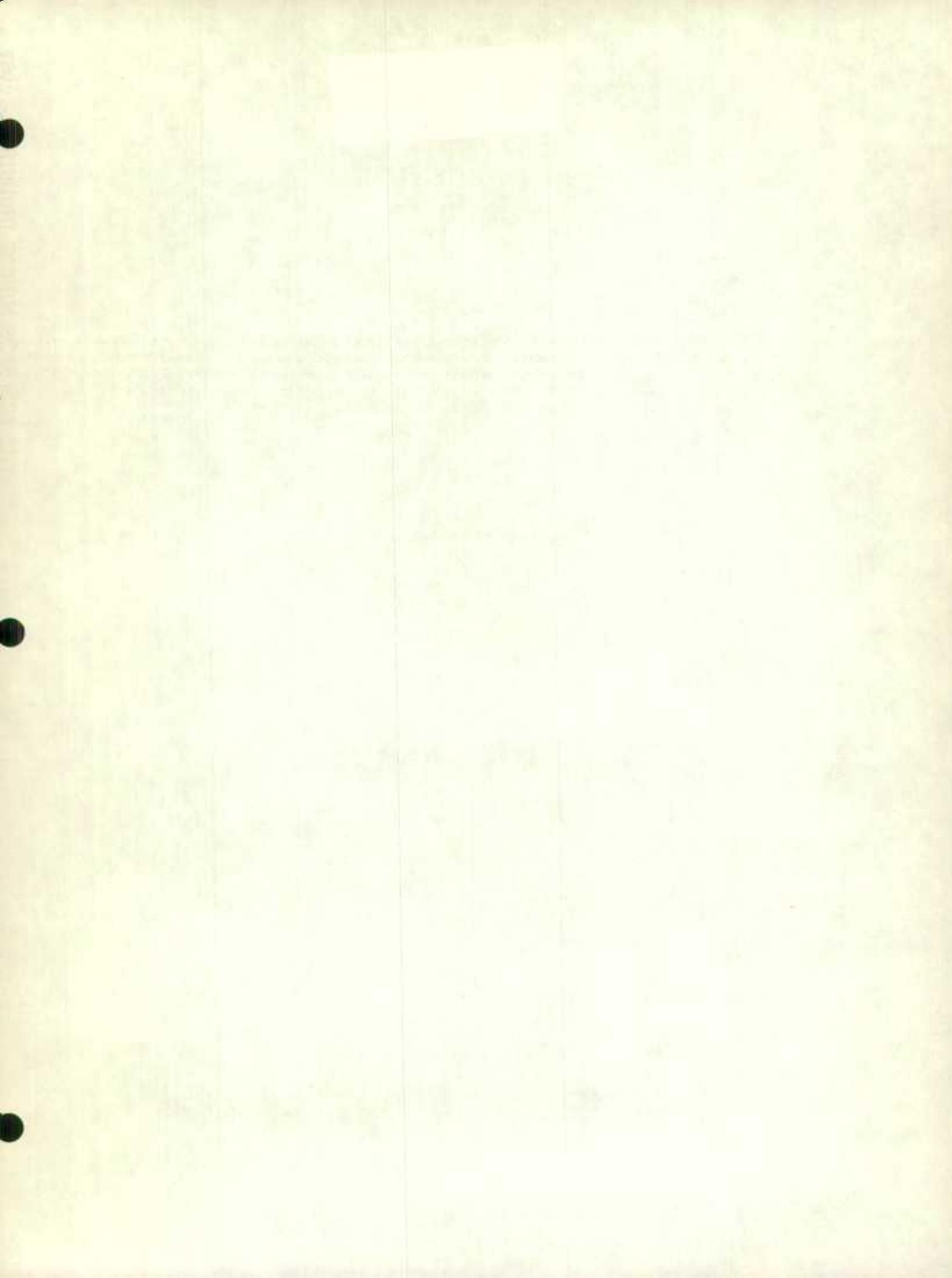
\* The affix "F" designates "Floats" in all subsections of Group No. 7.

## Directory of Firms in the Asbestos Mining Industry, 1957

Name of firm	Head office or general office	Location of mine
<b>Newfoundland:</b>		
Advocate Mines Ltd. <sup>1</sup> .....	330 Bay St. Toronto, Ontario .....	Baie verte
<b>Quebec:</b>		
Asbestos Corporation Ltd. ....	Thetford Mines .....	Thetford Mines, Black Lake, Coleraine
Bell Asbestos Mines Ltd. ....	Thetford Mines .....	Thetford Township
Canadian Johns-Manville Co. Ltd. ....	310 Victoria St., Montreal .....	Asbestos
Carey Canadian Mines Ltd. <sup>1</sup> .....	East Broughton Station .....	East Broughton
Chibougamau Asbestos Ltd. <sup>1</sup> .....	132 St. James St. W., Montreal .....	Roy Twp.
Cumberland, E.C. (Superior Asbestos) <sup>1</sup> .....	1430 Peel St., Montreal .....	Broughton
Empire Asbestos Ltd. <sup>1</sup> .....	322 Omeara St., Thetford Mines .....	Thetford
Flintkote Mines Ltd. ....	Thetford Mines .....	Thetford Mines
Golden Age Mines Ltd. <sup>1</sup> .....	85 Richmond St.W., Toronto, Ontario ....	Beauceville
Johnson's Asbestos Company .....	Thetford Mines .....	Coleraine
Johnson's Company Ltd. ....	Thetford Mines .....	Thetford Mines
Lake Asbestos of Quebec Ltd. <sup>1</sup> .....	Box 88, Black Lake .....	Black Lake
National Asbestos Ltd. <sup>1</sup> .....	Box 322 Thetford .....	Thetford
Nicolet Asbestos Mines Ltd. ....	Norbestos, Warwick .....	Norbestos
North American Asbestos Co. Ltd. ....	80 Richmond St. A., Toronto .....	Melbourne Twp.
New Lafayette Asbestos Co. <sup>1</sup> .....	80 Richmond St. W., Toronto .....	St-Odilon
Paradis, J.A. <sup>1</sup> .....	934 — 12ème Avenue, Thetford Mines ....	Thetford
Quebec Asbestos Corp. Ltd. ....	East Broughton Station .....	East Broughton Station
<b>Ontario:</b>		
Canadian Johns-Manville (Ontario) Ltd. ....	Matheson .....	Munro Township
<b>British Columbia:</b>		
Asbestos Corporation (Explorations) Ltd. <sup>1</sup> .....	Thetford Mines, Quebec .....	Ainsworth, Slocan
Cassiar Asbestos Corp. Ltd. ....	85 Richmond St. W., Toronto, Ontario ....	Cassiar
<b>Yukon:</b>		
Cassiar Asbestos Corp. Ltd. <sup>1</sup> .....	85 Richmond St. W., Toronto .....	Clinton Creek

<sup>1</sup> Exploration or development work only.





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