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N W H.

A CONFIDENTIAL REPORT

ON ASBESTOS FIBER PREPARED

FOR

THE J. M. LEGAL DEPARTMENT

1) WORLD PRODUCTION - 1974

   a) By Country

      1) List each producer by Co. name
      2) List by each producer total production by fiber group.
      3) Show ownership of each producer.

2) CONSUMPTION (WORLD) BY MAJOR PRODUCT CATEGORY - 1974

3) WORLD MARKETS - 1974

   List by continent

      a) Total quant. of fiber by group
      b) Major suppliers, by continent, by group.
      c) Major customers & products manuf.

4) Describe the location of existing asbestos prospects in the world and the feasibility of entering into production for each deposit. Include the type of fiber that can be produced from each deposit and the estimated annual production.

5) List the 10 major purchasers of asbestos in the world, showing the tonnage and $ volume and the approx. breakdown by fiber group.

6) List the 10 major purchasers of asbestos in the U.S. showing the tonnage and $ volume and the approx. breakdown by fiber group.

7) List the countries importing fiber into the U.S., showing for each country the producer by tonnage and the type of fiber.

8) For J.M., state the location of all asbestos mines which we own or have an interest and the total tonnage of fiber produced by group from each.

9) For J.M. state the country and the purchasers in each country by group where the fiber is sold.

10) Show J.M. share of market in tons and percent for each fiber Group -

      a) In the U.S.
      b) In South America
      c) In Europe (incl. U.K.)
      d) In Asia
      e) In Japan
      f) In Australasia
      g) In Mexico

1. WORLD PRODUCTION - 1974

4,736.0 Short Tons (Thousands)

a) BY COUNTRY

1) List each producer by Co. name.

2) List each producer total production by fiber group (if available).

3) Show ownership of each producer.

	Short Tons (Thousands)	
Canada	1,819.4	+ 4
South Africa	365.5	+ 1
Rhodesia	297.0	- 121 - Asbestos World Survey 1975
Italy	187.0	
West Germany	78.3	
United States	112.3	
Brazil	69.9	
Australia	37.7	
Swaziland	40.7	+ 1
Cyprus	36.6	- 4
Japan	5.7	
Yugoslavia	16.5	- 3
India	4.4	+ 2
U.S.S.R.	1,500.0	+ 705.
China	145.0	+ 42
Other Countries	20.0	+ 41
	4,736.0	+ 6[illegible] = 5[illegible] Asbestos World Survey

NOTE: Production figures extracted from Asbestos World Survey 1974 prepared by the Industrial Minerals Division of the Resource Industries and Construction Branch. Canadian Industry, Trade and Commerce.

Turkey 6000 tpa plus 10000 tpa 1977 and 20000 tpa late

CANADA 1,819.4 tons (thousands)

Canadian Johns-Manville Co., Ltd.

	Production	Shipments
Group 3	4,229	4,298
Group 4	156,025	157,391
Group 5	43,790	45,200
Group 6	141,588	139,691
Group 7	290,468	286,823
	636,100	633,403

Asbestos Corporation, Ltd. (Shipments)

Group 3	17,199
Group 4	123,746
Group 5	97,615
Group 6	63,007
Group 7	80,290
	381,857

Asbestos Corporation, Ltd. (owned 54% by General Dynamics Corporation of the U.S.A.)

Bell Asbestos Mines, Ltd.

	Shipments
Group 3	5,089
Group 4	13,600
Group 5	10,645
Group 6	13,966
Group 7	20,734
	64,034

(wholly owned subsidiary of Turner & Newall, Ltd. of the U.K.).

Lake Asbestos of Quebec, Ltd.

	Shipments
Group 3	5,756
Group 4	56,604
Group 5	27,566
Group 6	47,892
Group 7	92,477
	230,295

(wholly owned subsidiary of American Smelting and Refining Company - ASARCO.)

Carey-Canadian Mines, Ltd.

	Shipments
Group 3	310
Group 4	7,489
Group 5	15,698
Group 6	9,187
Group 7	194,369
	227,053 tons

(formerly owned by Philips Carey Corp. of the U.S.A. but now a wholly-owned subsidiary of Jim Walter Corp. of the U.S.A.)

Cassiar Asbestos Corp.

	Shipments
Group 3	5,314
Group 4 - 5	167,733
Group 6	21,653
	194,700 tons

(shareholders include Bell Asbestos Mines, Ltd. 24.5%, Conwest Exploration Co. of Canada 10.3%, James Hardie - Asbestos of Australia 13%, and Raybestos-Manhattan, Inc. of the U.S.A. 10% and Newmont Mining Co. 13.9%)

Advocate Mines, Ltd.

	Production	Shipments
Group 4 (A-25)	73,226	65,781
Group 6 (A-35)	6,759	10,160
	79,985	75,941 tons

(owned by Johns-Manville Corp., Amet Corp., and Eternit S.A.)

Johns-Manville Mining & Trading Company

	Production	Shipments
Group 4	1,715	1,655
Group 6	2,355	2,310
	4,070	3,965 tons

The Reeves mine in northern Ontario (operated by a 100% subsidiary, Johns-Manville Mining) was closed down in February 1975.

Hedman Mines, Ltd.

	Estimated Production
Group 7	7,000 tons

(owned by Gulf & Western Industries, Inc. of the U.S.A.).

SOUTH AFRICA — 365.5 tons (thousands)

(Chrysotile)

Msauli Asbes Ltd.

Group 4-7 — 68,720 metric tons

(a member of the Federal Mynbou - General Mining Group). The mine and mill is operated by the Msauli subsidiary, African Chrysotile Asbestos Ltd.

Consolidated African Mines Ltd.

Group 4-7 — 8,000 tons

Their principal sales agent is Commonwealth & Overseas Asbestos Corp.(Pty.) Ltd.

(Crocidolite)

Cape Blue Mines(Pty.) Ltd.

Full Range of Grade — 55,000 tons

(a member of the Cape Group of the U.K.)

Asbestos Investments(Pty.) Ltd.

Estimated Production — 45,000 tons Target 60,000 tons

(a member of the Eternit group). There are two operating subsidiaries - Kuruman Cape Blue Asbestos (Pty.) Ltd. and Danielskuil Cape Blue Asbestos (Pty.) Ltd.

Griqualand Exploration & Finance Co. Ltd.

Total Fiber Production 52,674 metric tons

Griqualand Exploration & Finance Co. Ltd. - Gefco (a member of the Federal Mynbou - General Mining Group).

The mines in the Kuruman area of northern Cape Province are operated through subsidiaries such as Coretsi Asbestos(Pty.) Ltd., Merencor Asbestos Mines(Pty.) Ltd. and Griqualand Asbes(Pty.) Ltd.

Sales are handled by the wholly-owned subsidiary, Central Asbestos Co. Ltd. of the UK.

Valley Asbestos(Pty.) Ltd.

Total production 10,000 metric tons

Valley Asbestos(Pty.) Ltd. is essentially the sales organization for three affiliated mining companies - Groenwater Asbestos Mining Co.(Pty.) Ltd., Postmasburg Cape Blue Asbestos(Pty.) Ltd. and Rooipoort Blue Asbestos(Pty.) Ltd. - all of which operate in the Postmasburg district of Cape Province.

Wandrag Asbestos(Pty.) Ltd.

11,000 metric tons

Dublin Consolidated Asbestos Mines(Pty.) Ltd.

(a subsidiary of Turner & Newall of the UK, conducts small scale operations mining crocidolite in the Vryburg district of Cape Province, and Amosite near Pietersburg, Transvaal.

(Amosite)

Egnep(Pty.) Ltd.

Estimated Production 100,000 tons

(a member of the Cape Group of the UK)

UNITED STATES — 111.9 tons (Thousands)

Vermont Asbestos Group Inc.

	Production
Group 3	1400
Group 4	2750
Group 5	7000
Group 6	12,000
Group 7	16,000
	39,150 tons

Vermont Asbestos Group Inc. (formerly owned and operated by GAF Corp. now effective March 1975 owned and operated by the former employee's of GAF located at this location).

Union Carbide Corp. (Mining & Metals Division)

	(Estimated Production)
Group 7	30,000 tons

Atlas Asbestos Co.

	(Estimated Production)
Group 7	24,000 tons

Atlas Asbestos Co. (wholly-owned by Wheeler Properties Inc. of Reno, Nevada).

Jaquays Asbestos Corp.

Crudes 3Z 4T 7F	1200 tons estimated production

Jaquays Asbestos Corp. operates one mine (The Chrysotile Mine) and holds two others (Regal Mine and Asbestos King Mine) on standby all in Gila County, Arizona.

Powhatan Mining Co. is the USA's only producer of amphibole asbestos. The mine is located in Newdale in North Carolina and the company's 700 ton per annum mill is located in Baltimore, Md.

Two other Californian producers, Pacific Asbestos Corp.: (a subsidiary of H. K. Porter Co. Inc.) and Coalinga Asbestos Co. (a subsidiary of Johns-Manville Corp.), ceased operation in 1974.

Pacific Asbestos Corp.

	Production
Group 4	6
Group 5	2,253
Group 6	3,475
Group 7	236
	5,970 tons

Coalinga Asbestos Co.

	Production	Shipments
Group 7	10,778 tons	11,205 tons
	111,978	112,225

RHODESIA

(Chrysotile)

Rhodesian and General Asbestos Corp. (a subsidiary of Turner & Newall continues to dominate the industry with production from three sites - Shabani, Gaths and the new King Mine - all in the Shabani area of south central Rhodesia.

The only other producer of size is the Asbestos Investments Group which controls the Pangani, Boss, Vanguard and Rex Mines, all in the Bulawayo/Shabani Region.

Total Rhodesian production in recent years has been variously estimated between 80,000 and 150,000 tons per year.

Another production estimate taken from the Asbestos Magazine 1975 - In Review - (297,000 tons in 1974).

ITALY

Amiantifera di Balangero SpA

Group 4-7 range 130,000 metric tons

(associated with the Eternit group).

NOTE: Asbestos World Survey 1974 estimated production in Italy at 170,000 metric tons.

WEST GERMANY

(Chrysotile)

Asbestos Corporation Ltd.

Group 4 — 100,000 tons estimated capacity

Asbestos Corporation Ltd. (owned 54% by General Dynamics Corp. of the USA) operates the Asbestos Hill plant at Ungava in northern Quebec, Canada which produces about 300,000 tons per year of asbestos concentrates which are shipped to the company's mill at Nordenham in West Germany.

NOTE: Asbestos World Survey 1974 estimated production in W. Germany at 71,166 metric tons.

BRAZIL

(Chrysotile)

S.A. Mineracao de Amianto

Estimated Production 60,344 tons

(SAMA is controlled by S. A. Tubos Brasilet which in turn is owned by Saint-Gobain-Pont-A-Mousson and Eternit).

NOTE: Asbestos World Survey 1974 estimated Brazil production at 63,500 metric tons.

AUSTRALIA

(Chrysotile)

Woodsreef Mines Ltd.

Estimated Production - Grades 4 thru 7 - 45,000 tons

(majority owned by Woodsreef Minerals, Ltd. of Canada - Formerly Pacific Asbestos, Ltd. of Canada). Woodsreef Mines in turn owns Chrysotile Corp. of Australia Pty., Ltd. the operating company which controls the chrysotile mine and mill at Woods Reef, near Barraba, in New South Wales.

Asbestos Mines Ptd. Ltd.

Group 4 700 tons

(a wholly-owned subsidiary of James Hardie Asbestos Ltd.).

NOTE: Asbestos World Survey, 1974, estimated production at 34,257 metric tons.

SWAZILAND

(Chrysotile)

Havelock Asbestos Mines (Swaziland) Ltd.

Group 3-6 range 37,500 metric tons

Havelock Asbestos Mines (Swaziland) Ltd. (owned by Turner & Newall of the UK (60%) and the Swaziland Government (40%).

CYPRUS

Cyprus Asbestos Mines Ltd.

Production	Gp 5-6	16,339
	Gp 7	16,340
		32,679 metric tons

Cyprus Asbestos Mines Ltd. (an associate of Tunnel Portland Cement of the UK and F. L. Smidth of Denmark).

JAPAN

(Chrysotile)

Nozawa Asbestos Cement Co. operates a mine and mill at Furano city on the island of Hokkaido. The mill has a capacity of 20,000 tpa and a production of QAMA grade 7 shorts and tailings.

Yamabe Asbestos Co. also produces short chrysotile fibres in the Yamabe District of Hokkaido.

YUGOSLAVIA

(Chrysotile)

The Bosanko Petrovo Selo Mine at Tuzla in Bosnia is Yugoslavia's principal asbestos operation with an annual capacity of about 10,000 metric tons of qualities similar to QAMA grades 4-7 inclusive. Smaller operations include the Korlace Asbestos Mine at Raska in Serbia, and the recently-opened Piceky-Kosouska deposits near Mitrovica.

INDIA

Deposits of chrysotile and amphibole asbestos types have been located at numerous locations throughout India and several such deposits are mined on a small scale. Until now commercial interest has only found practical form in two deposits - one of chrysotile at Roro in the Singhbhum District of Bihar, which is exploited by Hyderabad Asbestos Cement Products, Ltd. and the other an amphibole (amosite) deposit at Hole-Narsipur in the Baba Budan Hills of Mysore where feasibility studies for a possible 10,000 tpa plant are in progress. At present total Indian production is in the region of 11,000 tons.

USSR 1.500.0 Short Tons (thousands)

NOTE: The tonnage shown, namely 1,500,000 tons is from the U.S. Bureau of Mines, and is in disagreement with our own estimate of 2,200,000 tons.

However, the significant number is tons, "available for Export" in 1974 -- this tonnage was estimated to be 550,000 tons.

Uralasbest Combine , at Asbestos near Sverdlovsk in the Urals, is Russia's largest mine/mill operation with a total capacity of about 1 million tons per year.

Dzhetygara Combine, at Dzhetygara in Kazakhstan (about 300 miles due south of Sverdlovsk) is the second largest with a total capacity of about 300,000 tons per year. Expansion in progress.

Tuvaasbest Combine, at AK-Dovurak new Krasnoyarsk (in south central Siberia) has a current capacity of 35,000 tons per year which expansion in progress is expected to double.

Kiembay Combine, in Orenburg Oblast, is currently under construction, although first stage is thought to be operating. Other chrysotile deposits have been outlined at Molodezhnoye and IL'chirsk in Buryat at A.S.S.R. and plans have been proposed for their development.

CHINA - Chrysotile

Estimates for China's total asbestos production vary from 90,000 tons per year to as much as 200,000 tons per year. The major producing area is at Shihmien in Szechuan Province, where long fiber chrysotile is produced. Smaller mines are worked at a large number of locations throughout the rest of China.

OTHER COUNTRIES

TURKEY

Adana Atermit

Six asbestos deposits in Turkey are being worked by asbestos cement product manufacturers for their own use, among them is the Adana Atermit Company.

The sum total of chrysotile from all these operations is about 6000 tons per year.

FINLAND

Paraisten Kalkki Oy's

Group 4-7 6 - 7,000 tons per year

This producer of anthophyllite was closed in January, 1975.

KOREA

Production 6,770 tons

Reported in the Asbestos World Survey, 1974



2. CONSUMPTION (World) by Major Product Category:

Product Category	1974 Apparent Consumption U.S. Tons	Percentage	Total World Tons	Percentage
Asbestos Cement Products (pipe, sheets, siding, shingles)	177,695	21.8%	3,190,000	69.0%
Friction Materials (automotive linings & disc components blocks, clutch facings)	51,352	6.3	102,000	2.2
Asbestos Paper (asbestos felt, latex sheet underlayment, electrical & commercial paper)	307,298	37.7	342,000	7.4
Floor Tile	102,704	12.6	180,000	3.9
Paints, Roof Coatings, Caulks, Sealants, Adhesives & Undercoatings	60,318	7.4	74,000	1.6
Asbestos Textiles	11,411	1.4	32,000	.7
Plastics	16,302	2.0	23,000	.5
Joint Cements	12,227	1.5	14,000	.3
Packings & Gaskets	26,899	3.3	46,000	1.0
Miscellaneous	48,907	6.0	620,000	13.4
TOTAL	815,113	100.0%	4,623,000	100.0%

3.

U.S.

a)

	Annual Consumption
Group 3	26,899 tons
Group 4	128,279
Group 5	47,234
Group 6	99,052
Group 7	494,374
	795,838 tons
Blue	11,276
Amosite	7,999
	815,113 tons

3. (Continued)
b)

MAJOR SUPPLIERS

CANADA

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
ACL	5,084	6,624	10,256	14,292	53,193	
Bell	2,145	2,183	5,362	3,120	5,699	
CJM	1,339	66,996	20,638	65,564	205,333	
Carey	-	776	6,171	3,299	104,374	
Lake	1,015	16,476	4,807	5,467	48,880	
TOTAL QAMA	9,583	93,055	47,234	127,741	289,587	
Advocate		7,400				3,183 tons
Cassiar		(Group 4-5 31,986)				
Hedman					6,000	

SOUTH AFRICA

Cape Asbestos Co.	)	)
Central Asbestos Co. Ltd. - Griqualand Exploration	)	24,088)
Asbestos Investments Pty. Ltd. - Eternit Group	)	)
Egnep (Cape Group) Amosite	)	

1,744

RHODESIA

Rhodesian and General Asbestos Co. (a subsidiary of Turner & Newall)

U.S.

GAF Corp.		)
Union Carbide Corp.		)
Atlas Asbestos Corp.	50,694	)
Jacquays Asbestos Corp.		)

MAJOR CUSTOMERS & PRODUCTS

c)

Johns-Manville

A/C Products, Paper, Textiles
Packings & Gaskets

Armstrong Cork Co.

Floor tile, Asbestos latex backing for
sheet flooring

GAF Corporation

A/C Products, Paper, Roof Coatings, Asbestos
latex backing for sheet flooring

Nicolet Industries

A/C Products, Paper, Packings and Gaskets,
Asbestos latex backing for sheet flooring

Congoleum Industries

Asbestos latex backing for sheet flooring

Certain-teed

Asbestos Cement Pipe, Roofing Coatings

Celotex Corporation

Paper, Gaskets, Roof Coatings, Joint Cements

Flintkote

Floor tile, A/C Pipe

Bendix Corporation

Friction Materials

Raybestos-Manhattan

Textiles, Friction Materials,
Packing/Gaskets

3. (Continued)

EUROPE (includes U.K. & Eastern Europe)

a)

	Annual Consumption
Group 3	14,236 tons
Group 4	512,509
Group 5	373,655
Group 6	288,237
Group 7	235,000
	1,423,637 tons

MAJOR SUPPLIERS

3. (Continued) b) EUROPE (includes U.K. & Eastern Europe)

CANADA

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
ACL	8,585	69,344	29,095	12,027	9,597	
Bell	508	3,045	2,176	3,475	9,309	
CJM	117	36,406	7,385	23,491	46,682	
Carey	-	1,256	1,961	876	57,723	
Lake	3,074	32,811	15,746	12,317	24,814	
TOTAL QAMA	12,284	142,862	56,363	52,186	148,125	3,025
Cassiar		(Group 4-5	50,526	)		
Advocate		50,981		5,560		

SOUTH AFRICA & RHODESIA 209,833

297,910

USSR 187,000

ITALY

WEST GERMANY 78,282

3. (Continued) MAJOR CUSTOMERS & PRODUCTS

EUROPE (includes U.K. & Eastern Europe)

c)

Eternit (Western Europe)

A/C Pipe & Sheets, Millboard

Dalami-Eternit (France)

Floor tile

Turner & Newell (U.K.)

A/C Pipe & Sheets, Textiles, Paper, Millboard, Friction Matl's., Gaskets

Pont-a-Mousson (France & Germany)

A/C Pipe & Sheets

Dansk-Eternit (Denmark)

A/C Sheets

Van Gelder (Holland)

Asbestos latex flooring felt

Thomas Witter (U.K.)

Asbestos latex flooring felt

Cape Group

A/C Sheets & Friction Matl's.

Jurid (Germany)

Friction Materials & Gaskets

3. (Continued) MAJOR CUSTOMER & PRODUCTS

EUROPE (includes U.K. & Eastern Europe)

c)

Pahl (Germany)

Gaskets

Lechler (Germany)

Gaskets

Reintz (Germany)

Friction Matl's. & Gaskets

Ferodo (France)

Millboard, Gaskets, Paper, Friction Matl's.

DLW (Germany)

Floor tile & Asbestos Latex Flooring Felt

Salonit (Yugoslavia)

A/C Pipe & Sheets

3. (Continued)

JAPAN

a)

	Annual Consumption
Group 3	7,864 tons
Group 4	43,254
Group 5	106,168
Group 6	173,016
Group 7	62,914
	393,216 tons

3. (Continued)
b)

MAJOR SUPPLIERS

CANADA

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
ACL	1,183	4,715	6,860	12,909	9,952	
Bell	1,175	455	959	5,164	90	
CJM	470	1,243	8,485	10,888	4,716	
Carey	238	2,258	6,315	4,097	11,137	
Lake	788	1,363	4,660	22,854	13,330	
TOTAL QAMA	3,854	10,034	27,279	55,912	39,225	15,770
Cassiar		(Group 4-5	17,412	)		

71,457

USSR

SOUTH AFRICA & RHODESIA

138,761

U.S.

7,011

OTHER

19,708

JAPAN

Nozawa Asbestos Cement Co.	5,500
Yamabe Asbestos Co.	

MAJOR CUSTOMER & PRODUCTS

c)

Asaki

A/C Sheets, Textiles, Friction Mat'ls., Gaskets and Millboard

Kubota

A/C Pipe & Sheets, Colorbestos A/C Shingles

Mitsubiki

A/C Sheets, Textiles, Friction Materials, Gaskets and Millboard

Akelbono

Friction Matl's.

Nisshin Brake

Friction Matl's.

AWA Paper

Asbestos backed wallpaper, and Asbestos Latex Flooring Felt

Jujo Paper

Asbestos backed wallpaper and Asbestos Latex Flooring Felt

Nippon Slate

A/C Sheets

3. (Continued)

a) ASIA

	Annual Consumption
Group 3	8,038 tons
Group 4	96,460
Group 5	64,307
Group 6	66,987
Group 7	32,154
	267,946 tons

3. (Continued)

b) ASIA

MAJOR SUPPLIERS

CANADA

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
ACL	640	18,693	16,116	14,709	1,494	
Bell	-	1,032	1,376	534	1,994	
CJM	-	7,161	1,805	5,145	687	
Carey	-	-	65	12	1,508	
Lake	288	1,491	1,324	5,388	1,058	
TOTAL CANA	928	28,377	20,686	25,788	6,741	4,358
Cassiar		(Group 4-5	28,248	)		

SOUTH AFRICA & RHODESIA — 57,789

USSR — 30,338

U.S. — 15,440

INDIA — 6,600

KOREA — 6,270

3. (Continued) MAJOR CUSTOMERS & PRODUCTS

ASIA

c) Siam Cement (Thailand)

A/C Pipe & Sheets

Hankook Slate (Korea)

A/C Sheets

Huan Dai (Korea)

A/C Sheets

Hume (Singapore & Malaysia)

A/C Pipe & Sheets

Asbestos Cement Ltd. (Malaysia)

A/C Pipe & Sheets

Turner & Newall (India)

A/C Pipe & Sheets

Hyderabad (India)

A/C Pipe & Sheets

P.T. Harflex (Indonesia)

A/C Pipe & Sheets

Eternit (Phillipines)

A/C Pipe & Sheets

3.

Australasia

a)

	Annual Consumption
Group 3	50 tons
Group 4	41,642
Group 5	20,821
Group 6	11,278
Group 7	13,013
	86,804 tons

3. (Continued)
b)

MAJOR SUPPLIERS

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
CANADA						
ACL	35	418	9,355	2,618	608	
Bell		60	-	-	82	
CJM		218	3,771	2,798	2,347	
Carey		-	71	5	3,445	
Lake		498	298	18	205	
TOTAL QAMA	35	1,194	13,495	5,439	6,687	
Cassiar			(Group 4-5 24,025)			140
AUSTRALIA						14,532
OTHER IMPORTS						21,917

3. (Continued) MAJOR CUSTOMER & PRODUCTS

c)

James Hardie

A/C Pipe & Sheets

Wunderlich

A/C Sheets

Colonial Sugar

Floor Tile

Bendix Mintex

Friction Materials

3. (Continued)

MEXICO

a)

	Annual Consumption
Group 3	2,152 tons
Group 4	22,592
Group 5	17,212
Group 6	6,455
Group 7	5,379
	53,790 tons

3. (Continued)

b) MAJOR SUPPLIERS

CANADA

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
ACL	1,140	11,007	4,804	1,156	440	
Bell	450	2,460	180	740	40	
CJM	973	5,703	540	713	881	
Carey	11	600	325	299	1,107	
Lake	200	1,434	466	592	1,763	
TOTAL QAMA	2,774	21,204	6,315	3,500	4,231	

U.S.

GAF Atlas Union Carbide	11,079

SOUTH AFRICA & RHODESIA 7,360

3. (Continued)

MAJOR CUSTOMER & PRODUCTS

c)

Asbestos de Mexico

A/C Pipe & Sheets

Pont-a-Mousson

A/C Pipe & Sheets

Suarez

A/C Pipe & Sheets

Abex

Friction Materials

J-M Mexicana

Millboard

Asbestos Textil

Textiles

3. (Continued)

a)

SOUTH AMERICA

	Annual Consumption
Group 3	1,200 tons
Group 4	103,000
Group 5	32,000
Group 6	20,000
Group 7	18,800
	175,000 tons

3. (Continued)

MAJOR SUPPLIERS

b)

CANADA

	Group 3	Group 4	Group 5	Group 6	Group 7	Group Unknown
ACL	202	8,453	11,252	4,593	2,940	
Bell	18	516	295	601	1,428	
CJM	150	19,864	828	6,211	6,610	
Carey	61	2,599	790	600	4,564	
Lake	391	2,231	217	1,255	2,100	
TOTAL QAMA	822	33,663	13,382	13,260	17,642	
Cassiar		(Group 4-5 8,705)				268

SOUTH AFRICA & RHODESIA — 18,995

ITALY — 3,067

U.S. — 4,217

BRAZIL

SAMA (Cana Brava) — 69,850 tons

3. (Continued) MAJOR CUSTOMER & PRODUCTS

c)

Eternit

A/C Pipe & Sheets, Floor tile

Pont-a-Mousson

A/C Pipe & Sheets

Sano (Brazil)

A/C Sheets

Colombit (Colombia)

A/C Sheets

Raybestos-Manhattan Licensee's

Friction Materials

3. (continued)

USSR

a) Groups 3-6 914,210 tons

(1973 estimated apparent consumption)

b) Supplied by USSR

c)	A/C Pipe	639,980 tons
	A/C Sheet	228,580
	Miscellaneous	45,650
		914,210 tons

Describe the location of existing asbestos prospects in the world and the feasibility of entering into production for each desposit. Include type of fiber that can be produced from each deposit and the estimated annual production.

CALAVERAS ASBESTOS LTD. - CALIFORNIA

A new company formed following the purchase by a group of U.S. and German investors from H. K. Porter, Inc. The chrysotile asbestos mine and mill is located at Copperpolois, California. Porter had owned 92.5% interest in the former Pacific Asbestos Corporation and had permanently closed the mine in April 1974. The acquisition became final October 24, 1975.

Production has commenced and will be as follows in 1976 -

	Based on 75% of Capacity
Group 4	3,000 tons
5	11,925
6	10,800
7	1,425
	27,150 tons

Future production is estimated to be -

	Based on Full Capacity
Group 4	4,000 tons
5	15,900
6	14,400
7	1,900
	36,200

UNITED ASBESTOS INC. - ONTARIO, CANADA

Began trial production in August 1975 at its new asbestos mine at Matachewan, Midlothian Township, near Timmins, Ontario. Normal Production (all asbestos-cement grades) should be attained by the end of the year. The mill has an annual start-up production capacity of 100,000 tons of fiber. Indicated ore reserves are 150-million tons down to the 1,000-foot level and the mine is said to have an initial life span of over 20 years. At its present rated output, the facility is expected to eventually yield double the income being received from United's joint venture with Lake Asbestos at Black Lake.

UNITED ASBESTOS INC. (Cont'd.)

Kanematsu-Gosho Ltd., Tokyo, hold exclusive distributorship in Japan and ICC Mexico S.A. is the exclusive distributor in Mexico and Central America for the new operation. It should be mentioned here that Connell Bros. Ltd., San Francisco, California, will soon be exporting asbestos from United to Korea and Thailand and in 1976 should be shipping a sizeable volume of the Midlothian product to several customers in the Far East.

BRAZIL - Chrysotile

The Cana Brava mine owned by S.S. Mineracao de Aminanto is planning to increase annual capacity to 110,000 tons of fiber by 1977-78. Production in 1974 was 60,344 tons.

SOUTH AFRICA - Crocidolite

Early in 1975 Kuruman Cape Blue Asbestos(Pty.) Ltd. one of the operating subsidiaries of Asbestos Investments(Pty.) Ltd. (a member of the Eternit Group) brought into production a new mine and mill on the farm Klipfontein. This modern mill has a capacity of 18,000 tons per year.

Target production for the two crocidolite operations of Asbestos Investments Pty. Ltd. (Kuruman Cape Blue Asbestos and Danielskuil Cape Blue is now 60,000 tons per year.)

MEXICO

A letter of intent has been signed by J-M relating to a joint venture with Mexican interests namely Cia Industries Penoles SA in which Reeves assets plus certain technical assistance will provide a 45% interest to J-M in a new company that will develop a Mexican asbestos deposit. In the interim, the Reeves plant is being dismantled and prepared for shipment to Mexico.

The present forecast is to produce 40,000 tons of primarily Group 6 chrysotile fiber by 1979 and 60,000 tons by 1980.

COLUMBIA - Chrysotile

No production at present. Asbestos Columbianos S.A. (owned by Eternit Columbiana (70%) and Compania Minera Emmo (30%) plan to exploit the Las Brisas deposit near Campamento in the south of the country. The deposit was developed by Nicolet Industries of Canada, who sold its 70% to Eternit during 1974 (see IM Nov. '74). Although early proposals suggested that a 50,000 tpa plant would be built to start operating by 1976, commercial production is now expected to begin during 1979 at a rate of 20,000 tpa. A high production of recovered fibre is likely to be of QAMA grades 4 and 5.

GREECE - Chrysotile

Asbestos Mining Co. of Northern Greece - MABEM (owned 51% by Cerro Corp. of the USA and 49% by the Hellenic Industrial Development Bank). Project at Kozani in western Macedonia is currently operating at pilot plant scale but plans are in hand to install a first stage 50,000 tpa plant for probable start-up during 1979, and a second stage could take the total capacity to 100,000 tpa by 1980. Fibres will be in the QAMA 4-7 range.

INDIA - Amosite

Feasibility studies for a possible 10,000 tons per year plant are in progress at an amphibole (amosite) deposit at Hole-Narsipur in the Baba Budan Hills of Mysore.

MOZAMBIQUE - Anthophyllite

Minas Gerais de Mocambique Lda. has been operating a pilot plant for a number of years at a rate of 500/600 tpa of finished anthophyllite fibre. A commercial scale mill is currently being installed and is expected to start production by mid-1976. The operation is situated near Vila Pery, inland from the port of Beira.

SUDAN

An agreement (announced February 9, 1976) has been signed between Johns-Manville, Gulf International Group of Kuwait and the Government of the Democratic Republic of Sudan for the exploration and possible development of asbestos deposits in the Sudan. Under the agreement, the Sudanese government grants Johns-Manville and Gulf International licenses to explore for asbestos over approx. 3861 sq. miles in the Blue Nile and Kassala province for an 18-month to three year period. If exploration results prove favorable, the parties would form a joint venture for the mining and marketing of asbestos fiber. Johns-Manville would manage the mining operations and market the fiber for the joint venture.

The estimated investment to produce 100,000 tons of Group 4 fiber is $120 million. The estimated start-up would be 1980 based on 3 years of exploration activities and 2 years construction and start-up.

ABITIBI ASBESTOS MINING CO. LTD. - QUEBEC, CANADA

Owns a large, undeveloped asbestos deposit at Maizerets Township, near Amos, Quebec. In 1972, Brinco Ltd. entered into an agreement with Abitibi whereby it could acquire a majority interest in the property. The initial evaluation program was completed in 1973. Further study continued in 1974 and 1975 toward determining if commercial development of the deposit would be economically viable. Brinco issued a report in August 1975 which estimated that before financing and certain working capital requirements, it would cost about $260-million (Canadian) to bring the "A" deposit into production by 1978. The operating model on which the estimate is based envisages mining 225-million short tons of asbestos-bearing rock at a maximum rate of 25-million tons per year. The open-cast operation would support an annual milling rate of 7-million tons and a total throughput of 95-million tons of asbestos-bearing rock with an average gross value of $9.00 per ton based on January 1975 fiber prices.

The probability of the deposit coming in by 1980 is good.

Estimated production could be 200,000 tons divided as follows:

Group 4	70,000 tons
Group 5	20,000
Group 6	30,000
Group 7	80,000
	200,000 tons

BOLIVIA - Crocidolite

The existence of asbestos in a 100 sq. kilometer area in Chapare Province, Department of Cochabamba, Bolivia, has been known for over fifty years although no significant development work has been done until recently.

A semi-mechanized project was begun in Cochabamba in 1975 toward obtaining a concentrate of 90% to 98% asbestos by manual selection. Ultimately the Association of Producers of Asbestos was formed to promote the production of asbestos to be of mutual assistance to local miners, to establish standards and classifications and to guarantee quantities, quality and delivery to national foreign customers. It is assumed the major market will be the "Andean Pact" countries. Production projections are 2000 tons in 1976 and 10,000 tons by 1978.

MC ADAM MINING CORPORATION LTD.

Has an asbestos property at Roberge Lake, McCorkill Township, near Chibougamau, Quebec. A study of the deposit continues by Rio Tinto Canadian Explorations Ltd. In light of encouraging results thus far, the engineering consulting firm of SNC-Geco Ltd. was retained early this year to completely evaluate the project. A complex is envisioned that is capable of producing 100,000 tons of fiber per year.

The tonnage could be divided as follows:

Group 4	20,000 tons
Group 5	30,000
Group 6	25,000
Group 7	25,000
	100,000 tons

PATHFINDER RESOURCES LTD.

Has expended more than $700,000 in exploration with a view toward developing its Lili asbestos property at Cleveland Township, Quebec. Work to date has outlined 3 ore zones of asbestos-bearing fiber totaling 49-million tons. Pathfinder does not intend to develop the property but is seeking the financial strength of a major company to place it into production.

CONSOLIDATED MIDVALE EXPLORATIONS LTD.

Completed a drilling program this year at its asbestos-bearing property at Tring Junction, Beauce Township, Northwest Quebec. The project indicated several narrow zones of cross-fiber asbestos of good quality. Samples have been taken to the Quebec Department of Natural Resources for pilot plant testing.

EASTERN ASBESTOS CO. LTD.

At last reports, had held a 900-acre asbestos prospect at Portland West Township, Papineau County, Quebec, said to contain 1.5-million tons of iron-free asbestos ore. It is believed that in 1972 control of Eastern was acquired by Kingsgate Holdings Ltd. In early 1975 the Quebec Securities Commission informed the Montreal Stock Exchange it had issued a cease-trading order prohibiting all brokers from trading in securities of Eastern Asbestos. Trading was banned because Eastern's letters of patent were cancelled pursuant to the Quebec Companies Information Act under which a company incorporated in Quebec may be dissolved for failure to file certain information.

CASSIAR ASBESTOS CORPORATION LTD.

They produce asbestos from two mines: the Cassiar mine at McDame Mountain, Cassiar, British Columbia and the Clinton Mine at Clinton Creek Yukon Territory.

In 1974 - 92,709 tons of fiber were produced at the Cassiar Mill - QAMA Grades 1-6. Probable ore reserves at the end of 1974 were calculated at 22 million tons. A 3 year drilling program at Cassiar has proved a minimum 20 year life as an open pit operation.

In 1974 91,392 tons of fiber were produced at the Clinton Creek Mine - QAMA Grades 4-6. Probable ore reserves totaled 6.5 million tons. Extensive drilling at Clinton provided disappointing results and the mine will probably be closed in late 1977.

Efforts to locate another mine are continuing. Exploration in New Zealand has not been encouraging.

At Kutcho Creek, 60 miles southeast, of Cassiar the company has a substantial find, but it is not clear whether the grade is high enough to justify a large investment.

5.

List the 10 major purchasers of asbestos in the world, showing the tonnage and $ volume and the approx. breakdown by fiber group.

The Eternit Group		$ 97 million
Group 4	300,000 tons	
Group 5	20,000	
Group 6	88,000	
Group 7	15,000	
	423,000 tons	

Turner & Newall Ltd.		$ 31 million
Group 3	4,000 tons	
Group 4	46,000	
Group 5	30,000	
Group 6	30,000	
Group 7	15,000	
	125,000 tons	

Pont-a-Mousson (excludes Certain-teed)		$ 19 million
Group 4	20,000 tons	
Group 5	50,000	
Group 6	10,000	
	80,000 tons	

James Hardie Co. Pty. Ltd.		$ 15 million
Group 4	34,500 tons	
Group 5	25,500	
	60,000 tons	

Dansk Eternit - Denmark		$ 5 million
Group 4	3,000 tons	
Group 5	20,000	
Group 6	2,000	
	25,000 tons	

Van Gelder - Holland		$ 2.5 million
Group 7	28,000 tons	
Cape Asbestos (U.K.)		$ 4.8 million
Group 4	8,000 tons	
Group 5	8,000	
Group 6	3,000	
Group 7	2,000	
	21,000 tons	
Siam Cement - Thailand		$ 4.2 million
Group 4	5,000 tons	
Group 5	15,000	
Group 6	3,000	
	23,000 tons	
Hyderabad - India		$ 5.8 million
Group 4	10,000 tons	
Group 5	15,000	
	25,000 tons	
Asano Slate - Japan		$ 6.0 million
Group 5	10,000 tons	
Group 6	24,000	
	34,000 tons	

6.

List the 10 major purchasers of asbestos in the U.S. showing the tonnages and $ volume and the approx. breakdown by fiber group.

1. Johns-Manville — $27.3 million

Group 3	900 tons
Group 4	80,259
Group 5	1,346
Group 6	59,304
Group 7	7,855
	149,664 tons
Blue	13,000 tons
Amosite	4,000

2. Armstrong Cork Company — $ 6.3 million

Group 7	76,000 tons

3. GAF Corporation — $ 5.1 million

Group 4	3,000 tons
Group 5	6,000
Group 6	2,000
Group 7	57,000
	68,000 tons

4. Certain-teed — $12.4 million

Group 4	33,000 tons
Group 5	2,000
Blue	3,000
	38,000 tons

5. Nicolet Industries — $ 3.4 million

Group 3	100 tons
Group 4	200
Group 5	2,000
Group 6	8,000
Group 7	22,000
	32,300 tons

6. Congoleum Industries — $ 3.3 million

Group 7	30,400 tons

7. Celotex Corporation (Jim Walter Corporation) — $ 2.9 million

Group 5	2,000 tons
Group 6	10,000
Group 7	12,000
	24,000 tons

8. Flinkote — $ 3.6 million

Group 4	8,000 tons
Group 7	13,000
Blue	1,000
	22,000 tons

9. Bendix Corporation — $ 2.0 million

Group 3	200 tons
Group 5	6,200
Group 7	5,700
	12,100 tons

10. Raybestos-Manhattan — $ 2.4 million

Group 3	2,000 tons
Group 4	1,000
Group 5	3,000
Group 6	1,000
Group 7	1,000
	8,000 tons

7. List the countries importing fiber into the U.S., showing for each country the producer by tonnage and type of fiber.

ASBESTOS:

			YEAR 1974
Amosite, South Africa	s.tons	8,018	1,908,807
Crocidolite (Blue), South Africa	s.tons	11,302	2,904,038
Chrysotile, Crudes, Canada	s.tons	115	13,413
Germany, West	s.tons	99	35,347
Rhodesia	s.tons	1,202	700,298
South Africa	s.tons	1,502	652,746
Swaziland	s.tons	480	361,215
Chrysotile, Spinning Fibers, Canada	s.tons	26,768	10,416,850
Italy	s.tons	1	3,862
Rhodesia	s.tons	4	1,855
South Africa	s.tons	66	15,864
Chrysotile, Other, Brazil	s.tons	20	1,501
Canada	s.tons	684,941	101,363,335
Mexico	s.tons	45	9,128
South Africa	s.tons	593	154,761
USSR	s.tons	451	122,958
Other Crudes & Fibers, Canada	s.tons	27,384	4,740,038
Finland	s.tons	502	65,828
Germany	s.tons	1	1,427
South Africa	s.tons	2,670	348,831
		766,164	$123,822,122

7. (Continued)

CANADA

Canadian Johns-Manville Co. Ltd.

Group 3	1,339 tons
Group 4	66,996
Group 5	20,638
Group 6	65,564
Group 7	205,333
	359,870 tons

Asbestos Corporation Ltd.

Group 3	5,087 tons
Group 4	6,624
Group 5	10,256
Group 6	14,292
Group 7	53,193
	89,452 tons

Bell Asbestos Mines Ltd.

Group 3	2,145 tons
Group 4	2,183
Group 5	5,362
Group 6	3,120
Group 7	5,699
	18,509 tons

Carey Canadian Mines Ltd.

Group 4	776 tons
Group 5	6,171
Group 6	3,299
Group 7	104,386
	114,632 tons

7. (Continued)

Lake Asbestos of Quebec

Group 3	1,015 tons
Group 4	16,476
Group 5	4,807
Group 6	5,467
Group 7	48,880
	76,645 tons

Cassiar Asbestos Corp.

Group 3	4,000 tons
Group 4-5	26,169
Group 6	5,000
	35,169 tons

Advocate Mines Ltd.

Group 4	7,400 tons

Johns-Manville (Reeves Mine)

Group 4	1,655 tons
Group 6	2,310
	3,965 tons

Hedman Mines Ltd.

Group 7	6,500 tons

7. (Continued)

SOUTH AFRICA (Blue)	11,302 tons
Cape Asbestos Co.	6,000 tons
Central Asbestos Co. Ltd.	4,000
Asbestos Inv. Ppy Ltd.	1,000
(Chrysotile)	5,331 tons
Not available	
Cape Asbestos Co. (Amosite)	8,018 tons
RHODESIA (Chrysotile)	1,202 tons
Rhodesian and General Asbestos Co. (a subsidiary of Turner & Newall)	
SWAZILAND (Chrysotile)	480 tons
Havelock Asbestos Mines	
FINLAND (Anthophyllite)	502 tons
Paraisten Kalkki Oy's	

8.

For J-M, state the location of all Asbestos mines which we own or have an interest and the total tonnage of fiber produced by group from each.

Jeffrey - Asbestos, P.Q., Canada

	1975 Production
Group 3	1,635 tons
Group 4	142,836
Group 5	39,902
Group 6	117,941
Group 7	284,250
	586,564 tons

Canadian Johns-Manville Co. Ltd. (wholly-owned subsidiary of Johns-Manville Corp. of the U.S.A.).

Advocate Mines, Ltd. - Baie Verte, Newfoundland

	1975 Production
Group 4 (A-25)	56,100 tons
Group 6 (A-35)	13,500
	69,600 tons

Owned by Canadian Johns-Manville Ltd. (50% preferred, 31% common and a management contract), Amet Corp., and Eternit S.A.).

Coalinga Mine - Coalinga, Calif.

Closed July 1974

Reeves Mine - Norther Ontario, Canada

Closed February 1975

9.

For J-M state the country and the purchasers in each country by group where the fiber is sold.

North America
U.S. & Canada

420,829 tons (Jeffrey only)

Group 3	2588 tons
J-M	1910 tons
Bendix Corp.	102
Amatex	120
PPG	60
Other	396
	2588 tons

Group 4	83,461 tons
J-M	76,704 tons
Certain-teed	2,578
Raybestos-Manhattan	891
Dana Corp.	814
Coyne Cylinder Corp.	281
Other	2,193
	83,461 tons

Group 5	22,386 tons
J-M	1,346 tons
GAF Corp.	5,051
Bendix Corp.	3,133
Raybestos-Manhattan	3,079
Dana Corp.	1,978
General Motors (Delco)	1,690
Chrysler	1,517
Certain-teed	674
Other	3,918
	22,386 tons

9. U.S. & Canada (Cont'd.)

Group 6	87,725 tons
J-M	76,994 tons
Celotex	5,637
Triton-Supradur	1,478
Essex Industries	838
Thiokol	401
National Gypsum	313
Other	2,064
	87,725 tons

Group 7	224,561 tons
J-M	7,727 tons
GAF Corp.	40,739
Armstrong Cork	38,658
Congoleum Industries	30,393
Celotex	10,893
Flintkote	7,293
Brown	5,336
Ford Motor Co.	3,637
Hollingsworth & Vose	3,501
Drilling Specialties	2,885
U.S. Gypsum	2,687
Royal Industries	2,214
Monsey	2,053
Karnak	2,018
Gibson-Homans	1,965
Other	62,562
	224,561 tons

9. (Con't)

Japan — 25,802 tons

All fiber sold through one exclusive distributor TKBS.

UK — 26,498 tons

Group 4 — 4,687 tons

Cape Asbestos	3,752
Gleno	640
Other	295
	4,687 tons

Group 5 — 3,025 tons

Cape Asbestos	2,567 tons
T&N (Bell Asbestos)	108
Gleno	40
British Uralite	288
Other	22
	3,025 tons

Group 6 — 2,510 tons

Cape Asbestos	1,895
Other	615
	2,510 tons

Group 7 — 16,264 tons

Thomas Witter	6,713
Marley Tile	2,200
Everitt (distributor)	1,421
Mintex	1,076
Expandite	592
EVODE	452
Other	3,810
	16,264 tons

9. (con't)

France	20,931 tons
Group 4	12,748 tons
Eternit	8,000 tons
Pont-a-Mousson	4,600
Other	148
	12,748 tons
Group 5	23 tons
Midi Pyrenees	18 tons
Joint Meillor	5
	23 tons
Group 6	915 tons
Eternit	480 tons
Other	435
	915 tons
Group 7	7,235 tons
Dalami	6,680 tons
Ferodo	217
Other	338
	7,235 tons
Spain	18,613 tons
Group 4	8,901 tons
Uralite	8,090 tons
Fibrocementos Costilla	560
Rocalla	197
Other	54
	8,901 tons

9. Spain (con't)

Group 6	8,133 tons
Uralite	8,133 tons
Group 7	438 tons
Saralar	438 tons
Belgium	12,070 tons
Group 4	1,057 tons
J-M Mol-Ghent	960 tons
Other	97
	1,057 tons
Group 5	760 tons
Don Int'l (Cape Group)	660 tons
Other	100
	760 tons
Group 6	7,033 tons
J-M Mol-Ghent	4,291 tons
Eternit	2,695
Other	47
	7,033 tons
Group 7	3,181 tons
Eternit	1,260 tons
Prothermac (distributor)	563
Other	1,358
	3,181 tons

9. (Cont'd.)

Mexico	8810 tons
Group 3	973 tons
Asbestos Textil	515
Asbestos de Mexico	458
	973 tons
Group 4	5,703 tons
Asbestos de Mexico	3,540 tons
Pont-a-Mousson	2,040
Other	123
	5,703 tons
Group 5	540 tons
Asbestos de Mexico	540 tons
Group 6	713 tons
J-M Mexicana	258 tons
Asbestos de Mexico	455
	713 tons
Group 7	881 tons
J-M Mexicana	853 tons
Other	28
	881 tons
Australia	7,806 tons
Group 5	3,429 tons
James Hardie	2,214 tons
Other	1,215
	3,429 tons

9. (Cont'd.)

Australia - (Cont'd.)

Group 6	2,798 tons
Wunderlich	2,748 tons
Other	50
	2,798 tons
Group 7	1,559 tons
Wunderlich	794
E. Tinsley (distributor)	583
Bendix	180
Other	2
	1,559 tons

10.

a) U.S.

	1. Annual Consumption	2. J-M Shipments	3. % Share	4. J-M U.S. Consumption	5. U.S. Consumption Less J-M Consumption	6. J-M Shipments Less J-M Consumption	6 / 5
Group 3	26,899	1,339	5.0	900	25,999	439	1.7%
4	128,279	76,051	59.3	80,259(3)	48,020	negative (4)	-
5	47,234	20,638	43.7	1,346	45,888	19,292	42%
6	99,052	67,874	68.5	59,304	39,748	8,570	21.6%
7	494,374	205,333	41.5	7,855	486,519	197,478	40.6%
	795,838	371,235	46.6%	149,664	646,174	225,779	34.9%
Blue	(1) 11,276	-		(2) 13,000			
Amosite	7,999	-		4,000			
	815,113	371,235	45.5%	166,664	646,174	225,779	34.9%

NOTES: (1) Does not include GSA Stockpile

(2) Includes Blue consumed from GSA Stockpile

(3) Includes outside Cassiar purchases

(4) J-M consumes more Group 4 than they ship into the U.S.

10. (Cont'd.)

b) South America

	Annual Consumption	QAMA Shipments	J-M Shipments	Total J-M Share
Group 3	1,200	822	150	12.5%
Group 4	103,000	33,663	19,864	19.3
Group 5	32,000	13,382	828	2.6
Group 6	20,000	13,260	6,211	31.1
Group 7	18,800	17,642	6,605	35.1
	175,000	78,769	33,658	19.2

c) Europe (includes U.K. & Eastern Europe)

	Annual Consumption	QAMA Shipments	J-M Shipments	Total J-M Share
Group 3	14,236	12,284	117	1.0%
Group 4	512,509	142,862	36,406	7.1
Group 5	373,655	56,363	7,385	2.0
Group 6	288,237	52,186	23,491	8.1
Group 7	235,000	148,125	46,682	19.9
	1,423,637	411,820	114,081	8.0%

10. (Cont'd.)

d) Asia

	Annual Consumption	QAMA Shipments	J-M Shipments	Total J-M Share
Group 3	8,038	928	-	-
Group 4	96,460	28,377	7,161	7.4%
Group 5	64,307	20,686	1,805	2.8
Group 6	66,987	25,788	5,145	7.7
Group 7	32,154	6,741	687	2.1
	267,946	82,520	14,798	5.5%

e) Japan

	Annual Consumption	QAMA Shipments	J-M Shipments	Total J-M Share
Group 3	7,864	3,854	470	6.0%
Group 4	43,254	10,034	1,243	2.9
Group 5	106,168	27,279	8,485	8.0
Group 6	173,016	55,912	10,888	6.3
Group 7	62,914	39,225	4,716	7.5
	393,216	136,304	25,802	6.6%

10. (Cont'd.)

f) Australasia

	Annual Consumption	QAMA Shipments	J-M Shipments	Total J-M Share
Group 3	50	35	-	-
Group 4	41,642	1,194	218	1.0%
Group 5	20,821	13,495	3,771	18.1
Group 6	11,278	5,439	2,798	24.8
Group 7	13,013	6,687	2,347	18.0
	86,804	26,850	9,134	10.5%

10. (Continued)

g)

MEXICO

	Annual Consumption	QAMA Shipments	J-M Shipments	Total J-M Share
Group 3	2,152	2,774	973	45.2%
Group 4	22,592	21,204	5,703	25.2
Group 5	17,212	6,315	540	3.1
Group 6	6,455	3,500	713	11.0
Group 7	5,379	4,256	881	16.4
	53,790	38,049	8,810	16.4%

QUEBEC ASBESTOS MINING ASSOC. (Q.A.M.A.)

Quebec Asbestos Producers Assoc. formed 1931
Quebec Asbestos Mining Assoc. formed 1948

Asbestos producing companies in the Province of Quebec are the members and each company has one director to the Assoc.; member companies are:

Canadian Johns-Manville Co., Ltd.
Asbestos Corporation, Ltd.
Bell Asbestos Mines Ltd.
Lake Asbestos of Quebec, Ltd.
Carey Canadian Mines, Ltd.

Officers include:

President and 4 Directors

The President's term is one year and rotates annually by company in alphabetical order.

In addition to the above the Assoc. retains Philip Casgrain as General Counsel and P. A. Filteau as General Manager and Secretary.

The Association Committees include:

Uniform Classification & Grading Committee
Industrial Relations Committee
Traffic Committee
Legislation & Taxation Committee
Environmental Control Committee
Occupational & Environmental Health Committee
Materials Handling Committee
Public Relations Committee

Meetings of the Directors are held in Canada about 4 times annually and, in addition, 2 meetings of Directors and other representatives from each company are held annually.

The purpose of the Assoc. is:

1) Promote, advance, improve the business of mining and kindred businesses; foster co-operation between other associations and with government.

2) Develop uniform classification and grading and conduct research on asbestos.

3) Promote sound health practises

4) Work to prevent accidents.

5) Enter into agreements with other Associations, governments, etc. in the interests of the Assoc.

6) Establish funds for scientific purposes, publications and etc.

7) Maintain clinics for the asbestos workers.

Publications by the Q.A.M.A. include:

1) The Asbestos Producer (a monthly publication in French & English)

2) A French-English lexicon for the asbestos industry.

3) Reports on Asbestos & Health