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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

Dominion Statistician:	R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief - Mining, Metallurgical and Chemical Branch:	W. H. Losee, B.Sc.
Mining Statistician:	R. J. McDowall, B.Sc.
Statistician - Metal and Chemical Products:	H. McLeod, B.Sc.

THE ASBESTOS MINING INDUSTRY, 1939, and THE ASBESTOS PRODUCTS INDUSTRY, 1939

A - THE ASBESTOS MINING INDUSTRY

Production (mine sales) of primary asbestos in Canada during 1939, including all grades, totalled 364,472 short tons valued at \$15,859,212 compared with 289,793 short tons at \$12,890,195 in 1938. The value of sales in 1939 was the highest ever recorded and the tonnage shipped was surpassed only by that in 1937. Production of the mineral in Canada is confined almost entirely to the Eastern Townships of the province of Quebec. In 1939 a relatively few tons were shipped from a deposit located in Northern Ontario.

Canadian asbestos as produced commercially in Quebec is of the chrysotile or serpentine variety and is of high quality. Reserves of milling grade asbestos rock have been reported as sufficient for many years of commercial fibre production. Production of asbestos in Canada from 1880 to 1939, inclusive, totalled 6,930,368 short tons valued at \$255,017,509.

The average value per ton for all grades of mine shipments in 1939 was \$43.51 compared with \$44.48 in 1938; value of crudes in 1939 was \$500.68 per ton against \$328.21 in 1938; fibres, \$62.12 per ton in 1939 compared with \$59.54 in 1938 and shorts, \$17.15 in 1939 against \$17.97 in the preceding year.

The total value of Canadian asbestos exports in 1939 totalled \$15,844,703 compared with \$13,316,558 in 1938. Imports into Canada of various asbestos products in 1939 were appraised at \$1,072,443 against \$91,551 in the preceding year.

The number of Canadian asbestos companies reported as active in 1939 totalled 8; capital employed in the industry amounted to \$22,489,233; employees numbered 3,784 against 3,711 in 1938 and salaries and wages distributed aggregated \$4,347,064 compared with \$4,024,363 in 1938.

Complete and finally revised data on world asbestos production in 1939 are not yet available. In 1936 world production totalled 503,000 long tons of which the British Empire contributed 353,000 long tons; in 1938 production within the Empire totalled 344,000 long tons. The principal asbestos producing countries in the order of their output are Canada, Russia, Southern Rhodesia and the Union of South Africa.

The Bureau of Mines of Quebec reviews the asbestos industry in 1939 as follows: "Asbestos is one of the major mineral products of the Province. In terms of value it ranks second in our list of mineral production, coming immediately after gold. In 1939, the shipments of asbestos fibre amounted to 364,454 tons valued at \$15,858,492. In point of value it is a new record, exceeding the value of the 1920 production which was \$14,749,048, the previous high level of all time, when the asbestos prices were abnormally high.

"Asbestos Corporation, Limited, operated its four principal mines, the King, the Beaver, both in the Thetford area, the British Canadian mine in Black Lake and the Vimy Ridge in Coleraine. The other properties of this Company remained inactive all year.

"Johnson's Company, worked actively its two mines. The main producing mine of this Company is at Thetford Mines, near the King and the Bell mines. The second is at Black Lake, where operations were carried on day and night during the whole year.

"Bell Asbestos Mine. - At present the main supply of asbestos rock is still obtained from the open pit workings but the development work for changing to underground operations is far advanced and some of the rock comes from the underground workings. A new hoisting shaft has been sunk to a depth of 500 feet. Started in April, 1939, it was completed early in January 1940. The shaft head-frame of steel, is 135 feet high, and the outside dimensions of the shaft are 12½ by 12½ feet.

"Canadian Johns-Manville Company, Limited, operated its mine and mill continuously throughout the year, although the mill slowed down somewhat during the first months, the week's work varying from 4 to 6 days. The Cottrell plant which was set up to abate the dust was started in February and the conditions are greatly improved thereby.

"Quebec Asbestos Corporation, at East Broughton operated all year, with the exception of one month in the Spring, when the storage sheds were filled to capacity.

"Apart from the above producing companies, a certain amount of exploration work was done on asbestos prospects in the townships of Tingwick, Cranbourne, Thetford, Talon and Broughton."

Table 1 - SALES AND SHIPMENTS(x) OF CANADIAN ASBESTOS, 1937, 1938 and 1939

	1937		1938		1939	
	Tons	\$	Tons	\$	Tons	\$
Crudes .....	3,846(b)	947,917	2,911	955,423	3,121	938,718
Fibres .....	200,247	10,235,820	163,097	9,710,899	193,992(c)	12,049,539
Shorts .....	205,933	3,322,054	123,785	2,223,873	167,359	2,870,955
TOTAL .....	410,026	14,505,791	289,793	12,890,195	364,472	15,859,212
Sand, gravel, and stone (waste rock only) (a) .....	3,980	3,301	3,279	2,464	3,897	2,930

(x) All from the province of Quebec unless otherwise noted.

(a) This production is included under the sand and gravel industry.

(b) Includes 1 ton valued at \$250 produced in Ontario.

(c) Includes 18 tons valued at \$720 produced in Ontario.

	1937	1938	1939
	Tons	Tons	Tons
Quantity of rock mined .....	6,477,805	5,816,368	6,650,416
Quantity of rock milled .....	5,440,607	4,874,548	5,548,765

Table 2 - SALES AND SHIPMENTS OF ASBESTOS, 1926 - 1939

Year	Tons	\$	Year	Tons	\$
1926 .....	279,403	10,099,423	1933 .....	158,367	5,211,177
1927 .....	274,778	10,621,013	1934 .....	155,980	4,936,326
1928 .....	273,033	11,238,360	1935 .....	210,467	7,054,614
1929 .....	306,055	13,172,581	1936 .....	301,287	9,958,183
1930 .....	242,114	8,390,163	1937 .....	410,026	14,505,791
1931 .....	164,296	4,812,886	1938 .....	289,793	12,890,195
1932 .....	122,977	3,039,721	1939 .....	364,472	15,859,212

Table 3 - SALES AND SHIPMENTS OF ASBESTOS, 1912 - 1921

Year	Tons	\$	Year	Tons	\$
1910 .....	102,215	2,573,603	1916 .....	154,149	5,228,869
1911 .....	127,414	2,943,108	1917 .....	153,781	7,230,383
1912 .....	136,301	3,137,279	1918 .....	158,259	8,970,797
1913 .....	161,086	3,849,925	1919 .....	159,236	10,975,369
1914 .....	117,573	2,909,808	1920 .....	199,573	14,792,201
1915 .....	136,842	3,574,985	1921 .....	92,761	4,906,230

Table 4 - IMPORTS INTO CANADA AND EXPORTS OF ASBESTOS, 1938 and 1939

	1938		1939	
	Tons	\$	Tons	\$
<b>Imports</b>				
Asbestos clutch facings for automobiles, motor vehicles and chassis .....	...	93,470 <sup>1</sup>	...	...
Asbestos brake linings for automobiles, motor vehicles and chassis .....	...	150,410*	...	185,673
Asbestos brake linings and clutch facings, n.o.p. ....	...	13,157*	...	19,856
Asbestos in any form other than crude, and all manufactures of, n.o.p. ....	...	581,989	...	764,948
Asbestos packing .....	47	45,866	65	65,074
Asbestos clutch facings .....	...	26,659*	...	36,895
TOTAL .....	...	911,561	...	1,072,443
<b>Exports</b>				
Asbestos .....	165,744	10,872,435	186,238	12,463,177
Asbestos sand and waste .....	123,143	2,237,751	159,780	2,902,111
Asbestos manufactures, including asbestos roofing .....	...	206,372	...	479,415
TOTAL .....	...	13,316,558	...	15,844,703

<sup>1</sup> To March 31, 1938.

\* From April 1, 1938.

(23 Dec '40)



Table 5 - PRINCIPAL STATISTICS OF THE ASBESTOS MINING INDUSTRY IN CANADA, 1937, 1938 and 1939

	1 9 3 7	1 9 3 8	1 9 3 9
Number of firms .....	10	8	8
Capital employed .....	\$ 21,249,676	22,008,771	22,489,233
Number of employees - On salaries (c) .....	321	313	299
On wages .....	3,521	3,398	3,485
Total .....	3,842	3,711	3,784
Salaries and wages - Salaries .....	\$ 522,213	584,792	608,529
Wages .....	\$ 3,710,294	3,439,571	3,738,555
Total .....	\$ 4,232,507	4,024,363	4,347,064
Selling value of products (a) .....	\$ 14,509,092	12,892,659	15,862,142
Cost of fuel and electricity (purchased) .....	\$ 1,346,434	1,298,089	1,376,568
Cost of process supplies (b) .....	\$ 2,729,801	1,889,636	2,086,945
Net value of sales .....	\$ 10,432,857	9,704,934	12,398,629

(a) Includes value of sand and gravel.

(b) Explosives, drill steel, etc.

(c) In 1939 includes 41 females; 41 in 1937 and 41 in 1938.

Table 6 - CAPITAL EMPLOYED IN THE ASBESTOS INDUSTRY IN CANADA, 1939

	\$
Capital employed as represented by:-	
(a) Present cash value of the land (excluding materials) .....	8,238,768
(b) Present value of buildings, fixtures, machinery, tools and other equipment ....	7,271,636
(c) Inventory value of materials on hand, ore in process, fuel and miscellaneous supplies on hand .....	818,675
(d) Inventory value of finished products on hand .....	1,024,358
(e) Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	5,135,796
TOTAL .....	22,489,233

Table 7 - WAGE-EARNERS EMPLOYED, BY MONTHS, in the ASBESTOS MINING INDUSTRY IN CANADA, 1936 - 1939

Month	1936	1937	1938	1 9 3 9		MILL
	TOTAL	TOTAL	TOTAL	MINE		
				Surface	Underground	
January .....	2,011	3,096	3,337	1,278	380	1,463
February .....	1,964	3,028	3,402	1,306	388	1,533
March .....	1,950	3,511	3,331	1,172	413	1,496
April .....	1,941	3,541	3,349	1,300	387	1,525
May .....	2,351	3,656	3,429	1,409	393	1,470
June .....	2,448	3,764	3,410	1,507	407	1,630
July .....	2,555	3,756	3,282	1,486	442	1,703
August .....	2,687	3,804	3,394	1,469	460	1,768
September .....	2,827	3,767	3,398	1,505	505	1,727
October .....	2,923	3,585	3,505	1,505	531	1,678
November .....	2,939	3,490	3,535	1,569	549	1,708
December .....	2,820	3,413	3,412	1,529	523	1,685

Table 8 - NUMBER OF WAGE-EARNERS IN ASBESTOS INDUSTRY WHO WORKED THE NUMBER OF HOURS SPECIFIED, DURING ONE WEEK(x) IN MONTH OF NORMAL EMPLOYMENT, 1939. (Does not include overtime)

Hours	Number	Hours	Number
30 hours or less .....	1	49 - 50 hours .....	2
31 - 43 hours .....	7	51 - 54 hours .....	...
44 hours .....	11	55 hours .....	...
45 - 47 hours .....	4	56 - 64 hours .....	83
48 hours .....	3,727	65 hours .....	34
(x) Grand total, employees in week specified .....	3,869		
(x) Total wages paid in week specified .....	\$ 78,980		

Table 9 - FUEL and ELECTRICITY USED IN THE ASBESTOS MINING INDUSTRY IN CANADA, 1938 and 1939

Kind	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Value	Quantity	Value
			\$		\$
Bituminous coal - From Canadian mines .....	short ton	24,470	176,637	30,058	217,931
Imported .....	short ton	15	111	54	822
Anthracite coal - From United States .....	short ton	16,744	123,460	19,211	148,830
Other .....	short ton	8,141	63,343	6,154	44,563
Coke (for fuel only) .....	short ton	50	606	4	54
Gasoline .....	Imp.gal.	97,937	21,641	96,467	19,953
Kerosene or coal oil .....	Imp.gal.	5,948	1,050	7,586	1,358
Fuel oil and diesel oil .....	Imp.gal.	43,026	4,827	67,575	10,605
Wood (cords of 128 cubic feet of piled wood)	cord (a)	59	15	210	756
Electricity purchased, including service charges .....	K. W. H.	106,249,990	906,399	119,936,820	931,696
TOTAL .....	\$	...	1,298,089	...	1,376,568

(a) Cut on company's property.

Table 10 - POWER EQUIPMENT (including stand-by or emergency equipment), 1939

Description	Ordinarily in use		In reserve or idle	
	Number of units	Total horse power (x)	Number of units	Total horse power (x)
Steam engines and steam turbines .....	7	235	...	...
Diesel engines .....	2	220	...	...
Gasoline, gas and oil engines, other than diesel engines	4	353	2	10
Electric motors - Operated by purchased power .....	983	51,873	30	3,175
TOTAL .....	996	52,681	32	3,185
Stationary boilers .....	7	272	1	150

(x) According to manufacturers' rating.

Table 11 - CONSUMPTION OF ASBESTOS IN SPECIFIED CANADIAN INDUSTRIES, 1936, 1937 and 1938

Industry		1 9 3 6		1 9 3 7		1 9 3 8	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Electrical Apparatus and Supplies -							
Board .....	pound	147,311	21,651	232,034	34,226	178,401	32,477
Yarn .....	pound	87,693	26,626	119,140	37,323	71,851	27,424
Tape .....	pound	14,922	10,829	...	16,730	14,945	13,602
Boilers, Tanks and Engines .....	\$	...	4,547	...	3,914	...	7,309
Asbestos Products -							
Fibre .....		See Table 23 - Asbestos Products Industry					
Other forms .....		"					
Roofing paper .....	ton	1,242	42,468	2,430	168,334	1,743	75,140
Cotton goods, n.e.s. ....	pound	24,739	1,260	10,252	539	20,171	1,050
Woollen goods, n.e.s. ....	pound	204,723	56,537	165,027	49,505	127,321	35,649

Table 12 - WORLD PRODUCTION OF ASBESTOS, 1937 - 1938 (long tons)

Producing country and description	1937	1938
<u>BRITISH EMPIRE</u>		
Southern Rhodesia .....	50,905	52,509
Uganda .....	...	52
Union of South Africa -		
Amosite .....	5,808	7,850
Blue .....	4,686	7,841
Chrysotile .....	15,049	4,977
Anthophyllite .....	22	...
Canada -		
Chrysotile (b) .....	569,648	261,746
Crude .....	3,434	2,598
Fibre .....	178,792	145,698
Shorts .....	183,869	110,522
Sand and gravel (waste rock only) .....	3,555	2,928
Cyprus .....	11,173	9,032
India .....	100	89
Australia .....	298	173
TOTAL .....	458,000	544,000
<u>FOREIGN COUNTRIES</u>		
Czechoslovakia .....	(a)	(a)
Finland .....	7,500	(a)
France .....	200	(a)
Greece .....	2	(a)
Italy .....	6,292	6,752
U.S.S.R. ....	(a)	(a)
United States (sales) -		
Chrysotile .....	11,861	11,519
Amphibole .....	546	
Bolivia .....	21	21
Venezuela .....	(a)	(a)
French Indo-China .....	...	...
Japan (estimated) .....	1,000	1,000
Korea .....	69	(a)
Turkey .....	155	657
TOTAL .....	(a)	(a)
WORLD'S TOTAL .....	(a)	(a)

Asbestos is also produced in China.

(a) Information not available.

(b) Sales and shipments.

Table 13 - ASBESTOS PRODUCTION, UNION OF SOUTH AFRICA, 1938 - 1939 (Asbestos, Phil., U.S.A.)  
(tons of 2,000 pounds)

	1938	1939
Transvaal -		
Amosite .....	8,792.67	11,378
Blue .....	2,325.70	3,930
Chrysotile .....	5,386.52	503
Cape -		
Blue .....	6,484.57	6,143
TOTAL .....	22,989.46	21,954



The Department of Mines of Southern Rhodesia reported that asbestos dropped in production from 58,811 tons in 1938 to 58,513 tons in 1939. The value of the output, however, increased from £1,020,921 to £1,088,782. Private enterprise, it is understood, is investigating the possibility of establishing a factory for the manufacture of asbestos products in Southern Rhodesia.

The United States Bureau of Mines reported: "Sales of United States asbestos attained an all-time high of nearly 16,000 tons in 1939. This was an increase of 53 per cent over the output of 1938. The value of sales was more than double that of 1938, and imports also increased greatly. Consumption of asbestos in the United States was 37 per cent greater than in 1938, but still considerably below the high point of 1937. Domestic sales constituted a little over 6 per cent in quantity and 5½ per cent in value of domestic requirements. There is evidence of an increasing interest in amphibole asbestos. It is more resistant to chemicals than chrysotile, and accordingly it is employed chiefly in making special products, such as, acid filters. Unusual attention has been directed toward asbestos during the past year because it has been classed by the War and Navy Munitions Board as a critical mineral."

Table 14 - ASBESTOS (unmanufactured) IMPORTED FOR CONSUMPTION IN THE UNITED STATES, 1938 - 1939  
BY COUNTRIES AND CLASSES. (U.S. BUREAU OF MINES)

Country	Crude (including blue fibre)		Mill fibres		Short fibres 1/		T O T A L	
	Short tons	Value	Short tons	Value	Short tons	Value	Short tons	Value
		\$		\$		\$		\$
<u>1 9 3 8</u>								
Africa -								
Union of South Africa	3,677	456,073	...	...	...	...	3,677	456,073
Other British .....	2,745	310,147	...	...	...	...	2,745	310,147
Australia .....	21	6,006	...	...	...	...	21	6,006
Austria 2/.....	...	...	...	...	3	142	3	142
Canada .....	1,560	321,424	51,141	2,701,494	113,570	2,043,844	166,071	5,066,762
Finland .....	...	...	...	...	89	3,564	89	3,564
Italy .....	18	12,477	...	...	1,551	38,488	1,569	50,965
Malta, Gozo, Cyprus ...	...	...	...	...	6	294	6	294
U.S.S.R. ....	1	479	5,201	256,593	63	1,525	5,265	260,597
United Kingdom .....	22	5,205	...	...	22	847	44	6,052
TOTAL .....	7,844	1,111,811	56,842	2,960,087	115,504	2,088,704	179,490	6,160,602
<u>1 9 3 9</u>								
Africa -								
Union of South Africa	6,559	656,543	...	...	...	...	6,559	656,543
Other British .....	4,856	593,596	...	...	...	...	4,856	593,596
Australia .....	53	11,000	...	...	...	...	53	11,000
Canada .....	3,068	547,425	73,511	4,378,887	147,261	2,650,886	223,840	7,577,198
Finland .....	...	...	...	...	46	1,324	46	1,324
Italy .....	31	25,167	...	...	536	12,133	567	35,300
Malta, Gozo, Cyprus ...	...	...	...	...	3,940	69,426	3,940	69,426
U.S.S.R. ....	...	...	2,611	109,516	(3)	5	2,611	109,521
United Kingdom .....	298	40,580	...	...	...	...	298	40,580
Venezuela .....	...	...	...	...	11	50	11	50
TOTAL .....	14,845	1,872,311	76,122	4,488,403	151,794	2,733,824	242,561	9,094,538

1/ Asbestos, n.e.s., containing not over 15 per cent of foreign matter.

2/ Figures cover period January 1 - May 5.

3/ Less than 1 ton.

DIRECTORY OF FIRMS IN THE CANADIAN ASBESTOS MINING INDUSTRY, 1939

<u>Name of Firm</u>	<u>Head Office Address</u>	<u>Location of Plant</u>
QUEBEC -		
Asbestos Corporation Ltd.	Canada Cement Building, Montreal	Thetford Mines, Black Lake, Coleraine.
Beaulieu, Thomas (a)	Ste. Florence	Matapedia Co.
Bell Asbestos Mines Ltd.	Thetford Mines	Thetford Tp.

DIRECTORY OF FIRMS IN THE CANADIAN ASBESTOS MINING INDUSTRY, 1939 (Concluded)

<u>Name of Firm</u>	<u>Head Office Address</u>	<u>Location of Plant</u>
<u>QUEBEC (Concluded) -</u>		
Canadian Johns-Manville Co. Ltd.	Sun Life Building, Montreal	Asbestos
Johnson's Company	Thetford Mines	Thetford Mines; Coleraine.
Nicolet Asbestos Mines Ltd.	820 Transportation Bldg., Montreal	Norbestos
Quebec Asbestos Corp. Ltd.	East Broughton Station	East Broughton Sta.
<u>ONTARIO -</u>		
Rahn Lake Mines Corp. Ltd.	13 Melinda Street, Toronto	Bannockburn Tp.; Matachewan Dist.

(a) Carried on exploration or development work only.

B - THE ASBESTOS PRODUCTS INDUSTRY, 1939

Fourteen factories in Canada were occupied chiefly in the manufacture of asbestos goods in 1939. Production by these works was valued at \$1,783,993, this output being 17 per cent above the 1938 total of \$1,531,118, but 6 per cent below the corresponding figure for 1937. Products included brake linings valued at \$639,884, boiler and pipe covering at \$156,878, clutch facings at \$147,249, asbestos packings at \$112,649 and such other lines as asbestos gaskets, paper, cloth, blackboards, yarn, dryer felts, cements, etc.

The factories which operated in this industry in 1939 were distributed as follows: in Quebec, 7; in Ontario, 6; and in Nova Scotia, 1. Fixed and working capital as represented by these works totalled \$2,003,516; the number of employees averaged 415 for each month of the year, and total payments in salaries and wages amounted to \$497,324. Expenditures for fuel and electricity totalled \$99,711 and materials for manufacturing cost \$724,424.

Table 15 - PRINCIPAL STATISTICS OF THE ASBESTOS PRODUCTS INDUSTRY, 1929 - 1939

<u>Year</u>	<u>Number of plants</u>	<u>Capital employed</u>	<u>Average number of employees</u>	<u>Salaries and wages</u>	<u>Cost of fuel and electricity at works</u>	<u>Cost of materials at works</u>	<u>Gross selling value of products at works</u>
		\$		\$	\$	\$	\$
1929 .....	12	2,949,712	351	359,433	80,902	1,348,460	2,286,638
1930 .....	11	2,316,645	306	401,490	77,082	1,327,025	2,301,924
1931 .....	13	1,112,141	240	302,638	57,339	729,771	1,308,183
1932 .....	13	2,682,882	279	280,953	67,732	559,673	1,067,801
1933 .....	11	1,777,975	222	208,580	55,031	331,062	757,626
1934 .....	11	1,391,873	228	233,379	46,488	387,074	910,983
1935 .....	13	1,703,301	327	323,854	66,793	518,994	1,130,282
1936 .....	13	1,955,676	372	376,574	79,290	622,530	1,293,909
1937 .....	13	2,003,659	451	464,882	91,252	812,639	1,896,677
1938 .....	13	1,701,202	403	433,964	107,436	614,207	1,531,118
1939 .....	14	2,003,516	415	497,324	99,711	724,424	1,783,993
Per cent change							
1939 from 1938..	...	/17.8	/3.0	/14.6	- 7.2	/ 17.9	/ 16.5

NOTE - Profits or losses cannot be calculated from above figures as data are not available for general expense items such as interest, rent, depreciation, taxes, insurance, advertising, etc.

Table 16 - PRINCIPAL STATISTICS, BY PROVINCES, 1938 and 1939

Province	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>1938</u>							
Quebec .....	6	1,087,962	290	290,420	87,824	373,287	929,259
Nova Scotia .....	1)						
Ontario .....	6)	613,240	115	143,544	19,612	240,920	601,859
CANADA .....	13	1,701,202	403	433,964	107,436	614,207	1,531,118
<u>1939</u>							
Quebec .....	7	1,262,489	288	333,852	77,020	422,501	995,193
Nova Scotia .....	1)						
Ontario .....	6)	741,027	127	163,472	22,691	301,923	788,800
CANADA .....	14	2,003,516	415	497,324	99,711	724,424	1,783,993

Table 17 - CAPITAL EMPLOYED, BY PROVINCES, 1938 and 1939

Province	Present value of land, buildings, fixtures, machinery and tools	Inventory value of materials on hand, finished products and stocks in process	Cash, bills and accounts receivable, prepaid expenses, etc.	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1938</u>				
Quebec .....	574,245	260,561	253,156	1,087,962
Other provinces .....	310,283	179,787	123,170	613,240
CANADA .....	884,528	440,348	376,326	1,701,202
<u>1939</u>				
Quebec .....	598,810	336,223	327,456	1,262,489
Other provinces .....	322,643	208,353	210,031	741,027
CANADA .....	921,453	544,576	537,487	2,003,516

Table 18 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939

Table 18 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939								
Province	Average number of employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages					
	Male	Female	Male	Female				
	No.	No.	No.	No.				
<u>1938</u>								
Quebec .....	51	4	211	24	290	94,483	195,937	290,420
Other provinces .....	22	10	81	...	113	69,045	74,499	143,544
CANADA .....	73	14	292	24	403	163,528	270,436	433,964
<u>1939</u>								
Quebec .....	50	5	206	27	282	99,300	234,552	333,852
Other provinces .....	22	10	95	...	127	70,744	92,728	163,472
CANADA .....	72	15	301	27	415	170,044	327,280	497,324



Table 19 - WAGE-EARNERS, BY MONTHS, 1938 and 1939 (On the 15th of each month)

Month	1 9 5 8			1 9 5 9		
	Male	Female	TOTAL	Male	Female	TOTAL
	No.	No.	No.	No.	No.	No.
January .....	504	25	529	290	24	314
February .....	278	23	299	288	24	312
March .....	280	25	305	290	25	315
April .....	516	26	542	295	26	321
May .....	505	24	529	288	28	314
June .....	274	21	295	281	24	305
July .....	290	28	316	273	23	296
August .....	284	28	310	284	23	307
September .....	298	26	324	310	26	336
October .....	305	25	330	335	32	367
November .....	290	25	315	346	32	378
December .....	291	25	316	326	32	358
AVERAGE .....	292	24	316	301	27	328

Table 20 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1939 (In one week of normal employment)

Regular hours worked per week	Number of wage-earners	Per cent of total	Regular hours worked per week	Number of wage-earners	Per cent of total
30 hours or less ...	...	...	55 hours .....	4	1.2
31 - 43 hours .....	10	2.9	56 - 64 hours .....	25	7.5
44 hours .....	13	3.8	65 hours and over ..	7	2.0
45 - 47 hours .....	...	...	TOTAL .....	344	100.0
48 hours .....	191	55.5	Total wages paid in selected week .....	\$7,230	
49 - 50 hours .....	87	25.3			
51 - 54 hours .....	7	2.0			

Table 21 - FUEL AND ELECTRICITY USED, 1938 and 1939

Kind	Unit of measure	1 9 5 8		1 9 5 9	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Anthracite coal .....	short ton	18	208	9	102
Bituminous coal - Canadian .....	short ton	5,866	37,066	4,198	24,607
Imported .....	short ton	9	65	31	190
Coke .....	short ton	1	11	4	39
Gasoline .....	Imp. gal.	180	45	908	259
Fuel oil .....	Imp. gal.	444,132	30,478	465,001	28,640
Kerosene .....	Imp. gal.	968	155	2,745	439
Gas - Manufactured .....	M cu. ft.	115	109	14	14
Other fuel .....	...	...	...	...	2
Electricity purchased .....	K. W. H.	2,468,375	59,299	3,015,618	45,419
TOTAL .....	\$	...	107,436	...	99,711

Table 22 - POWER EQUIPMENT, 1938 and 1939

	1 9 5 8		1 9 5 9	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Electric motors - Ordinarily in use .....	359	3,502	373	3,728
In reserve or idle .....	...	...	1	5
Total .....	359	3,502	374	3,731
Boilers .....	8	1,140	6	521
In reserve or idle .....	...	...	...	...
Total .....	8	1,140	6	521

Table 23 - MATERIALS USED IN THE ASBESTOS PRODUCTS INDUSTRY, 1938 and 1939

Material	Unit of measure	1 9 3 8	1 9 3 9
		Quantity	Cost at works
			\$
Asbestos fibre .....	lb.	5,841,692	110,077
Asbestos cloth .....	lb.	64,027	23,529
Asbestos paper, corrugated and plain ....	lb.	146,626	6,754
Asbestos sheets and strips .....	lb.	21,529	8,728
Asbestos yarn .....	lb.	230,777	66,859
Cotton cloth and cotton yarn .....	\$	...	43,578
Rubber and rubber sheets .....	lb.	89,278	14,943
Containers and packing material .....	\$	...	63,514
All other materials .....	\$	...	276,245
TOTAL .....	\$	...	614,207
			\$
			6,895,578
			144,864
			102,851
			35,848
			232,992
			10,576
			19,509
			8,769
			427,445
			121,227
			...
			56,607
			109,174
			21,463
			...
			32,721
			...
			292,349
			...
			724,424

Table 24 - PRODUCTS MANUFACTURED IN THE ASBESTOS PRODUCTS INDUSTRY, 1938 and 1939

Product	Unit of measure	1 9 3 8	1 9 3 9
		Quantity	Cost at works
			\$
Asbestos brake linings - Moulded .....	ft.	1,859,377	330,726
Other .....	ft.	1,197,453	148,108
Asbestos boiler and pipe covering .....	ft.	1,619,599	145,621
Asbestos clutch facings .....	No.	529,766	117,082
Asbestos gaskets .....	lb.	33,733	21,900
Asbestos packings of all kinds .....	lb.	253,475	93,689
All other products (x) .....	\$	...	673,992
TOTAL .....	\$	...	1,531,118
			\$
			2,245,559
			489,305
			1,096,577
			150,579
			1,769,485
			156,878
			638,498
			147,249
			38,185
			19,669
			283,358
			112,649
			...
			707,664
			...
			1,783,993

(x) Includes products reported by 1 or 2 firms, such as, asbestos dryer felt, hydraulic brake hose, asbestos shingles, asbestos yarn, packings of rubber, duck and flax, asbestos paper, asbestos cloth, etc.

Table 25 - PRODUCTION OF ASBESTOS BRAKE LININGS, PIPE COVERINGS AND PACKINGS, 1925 - 1939

Year	Asbestos brake linings	Asbestos boiler and pipe coverings	Asbestos packings
	\$	\$	\$
1925 .....	272,217	179,717	187,916
1926 .....	279,783	232,963	184,515
1927 .....	326,072	277,339	204,376
1928 .....	459,431	376,399	218,904
1929 .....	555,759	406,395	234,595
1930 .....	459,616	283,312	197,601
1931 .....	321,664	178,611	144,983
1932 .....	309,942	83,964	87,682
1933 .....	316,938	65,725	91,597
1934 .....	458,147	99,948	78,860
1935 .....	459,904	156,917	107,824
1936 .....	592,309	162,216	113,821
1937 .....	580,487	212,341	131,213
1938 .....	478,854	145,621	93,689
1939 .....	639,884	156,878	112,649

DIRECTORY OF FIRMS IN THE ASBESTOS PRODUCTS INDUSTRY, 1959

Names of Firms and Location of Plants

Main Products, 1959

Guildfords Limited, June St., Halifax, N.S.	Asbestos boiler and pipe coverings, packings and gaskets; eel grass insulation.
Asbestos Corporation, Limited St. Lambert, Montreal, P.Q.	Asbestos brake linings, clutch facings, packings and brake blocks.
Asbestoslate Manufacturing Co. 2035 Desjardins St., Montreal, P.Q.	Asbestos blackboards.
Asten-Hill Ltd., Valleyfield, P.Q.	Asbestos dryer felts.
Atlas Asbestos Company Limited, 110 McGill St., Montreal, P.Q.	Asbestos boiler and pipe coverings; gaskets and cloth.
Autobestos Manufacturing Co. Ltd., Sherbrooke, P.Q.	Asbestos brake linings.
Canadian Johns-Manville Co. Ltd., Asbestos, P.Q.	Asbestos brake linings, boiler and pipe covering, dryer felts, millboard, gaskets, clutch facings, packings, paper, cloth, shingles, refractory cements, yarn, etc.
Philip Carey Company Limited, Lennoxville, P.Q.	Asbestos boiler and pipe covering, paper, millboard and asphalt bridge planking.
Asbestos Covering Supply Co., 618A Brock Ave., Toronto, Ont.	Asbestos boiler and pipe covering.
Beldam Asbestos Packing Ltd., 37 Britain St., Toronto, Ont.	Asbestos gaskets.
Canadian Raybestos Co. Ltd., 280 Perry St., Peterboro, Ont.	Asbestos brake linings, clutch facings, packings, brass rivets, rubber hose, etc.
Garlock Packing Company, 200 Queen St. N., Hamilton, Ont.	Asbestos packings and gaskets; rubber, duck and flax packings.
Hamilton Engine Packing Co., 56 Alanson St., Hamilton, Ont.	Asbestos gaskets; boiler and pipe covering.
Will, C., & Co. 142 Vine Ave., Toronto, Ont.	Asbestos boiler and pipe covering; felt pipe covering.



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