





ASBESTOS MINES 1963

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EXPLANATORY NOTES

Establishment

The reporting unit in the Census of Mines, Quarries and Oil Wells is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

Materials and supplies used, Goods purchased for resale as such, Fuel and power consumed, Number of employees and their pay, Inventories, Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would

have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A mining establishment is typically a mine, mine/mill, quarry, pit or bog principally engaged in mining operations. Prior to 1961, the Census of Mines, Quarries and Oil Wells attempted to cover the mining activities of all establishments, whether or not they were principally engaged in mining operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in mining are no longer included as mining establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in mining establishments, many nonmining establishments are now surveyed for commodity information only and the latter are included in the appropriate tables of industry reports.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- -- amount too small to be expressed.
- p preliminary figures.
- r revised figures.

ASBESTOS MINES

1963

Canadian producers of asbestos shipped 1,275,530 short tons of crude and milled fibres valued at \$136,956,180 during 1963. In the preceding year the shipments were 1,215,814 tons valued at \$130,281,966. Excluded from the aforementioned figures were the values of containers which amounted to \$5,008,384 in 1963 and \$4,748,791 in 1962. The quantity of asbestos increased 4.1 per cent and the total value was up 1.0 per cent.

The asbestos mining industry employed 6,823 persons at the mines and mills. Salaries and wages amounted to \$35,507,888. Fuel and electricity cost \$7,638,031. Included in this figure were 540,629,093 kwh. of purchased electricity valued at \$3,573,802. Process supplies and containers cost \$16,274,404.

Asbestos has a variety of industrial uses. The longer-fibred spinning material is formed into tex-

tiles, packing and certain insulating and heatresisting 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 1963 were: Canadian dollars per ton: crude No. 1, \$1,400-\$1,410; crude No. 2, \$750-\$760; spinning fibres, \$370-\$565; shingle fibres, \$181; paper stock, \$142; waste, \$86; shorts, \$43.

Technical information is shown in an annual review "Asbestos" published by the Department of Mines and Technical Surveys, Ottawa.

TABLE 1A. Principal Statistics for the Asbestos Mining Industry, Significant Years, 1921-59

Basis: Standard Industrial Classification in use prior to 1960

Your	Estab- lish- ments	Em- ployees	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 ¹
	nun	nber			dollars		
1921 1929 1931 1933	8 8	2, 694 3, 391 1, 675 1, 629	2,657,425 4,410,535 1,836,115 1,279,093	737, 689 1, 335, 610 849, 047 771, 327		4,906,230 13,179,884 4,818,838 5,211,177	e :
937	9	3, 842	4, 232, 507	1, 346, 434	2, 729, 801	14,509,092	10, 432, 85
939		3, 784	4, 347, 064	1, 376, 568	2, 086, 945	15,862,142	12, 398, 62
941		3, 760	4, 996, 101	1, 524, 450	2, 721, 796	21,475,645	17, 229, 39
944		4, 050	6, 401, 185	1, 635, 829	2, 380, 230	21,836,376	17, 820, 31
946	17	4,547	7,771,921	1, 759, 462	3, 216, 430	25, 245, 579	20, 269, 68
949		4,053	10,569,071	1, 499, 439	4, 668, 869	39, 784, 651	33, 616, 34
951		5,923	20,024,208	2, 988, 149	10, 085, 645	81, 624, 009	68, 550, 21
954		6,563	24,850,100	4, 130, 806	9, 924, 166	86, 441, 436	72, 386, 46
956	22	7, 065	30, 411, 878	5, 541, 309	12, 335, 772	103, 304, 309	85, 427, 22
957		7, 357	32, 283, 287	6, 008, 420	14, 558, 214	108, 014, 041	87, 447, 40
958		6, 997	32, 025, 137	5, 740, 515	12, 798, 276	95, 271, 323	76, 732, 53
959		6, 653	31, 448, 638	5, 951, 664	13, 729, 736	110, 996, 692	91, 315, 29

Gross value less cost of fuel, electricity, process supplies and containers.

TABLE 1B. Principal Statistics, Asbestos Mines, 1959-63

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Em- ployees	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 ¹
	пип	ber			dollars		
1959 1960 1961 1962 1963	21 22 23 18 17	6, 653 6, 688 6, 875 6, 997 6, 823	31, 448, 638 33, 057, 847 35, 093, 133 36, 072, 604 35, 507, 888	5, 951, 664 6, 133, 788 6, 666, 383 7, 184, 372 7, 638, 031	13, 729, 736 14, 887, 770 14, 645, 395 16, 700, 356 16, 274, 404	110, 996, 692 125, 236, 902 133, 407, 157 135, 065, 565 141, 998, 121	91, 315, 292 104, 215, 344 112, 095, 379 111, 180, 837 118, 085, 686

Gross value less cost of fuel, electricity, process supplies and containers.

TABLE 2. Production and Shipments of Asbestos by Canadian Mines, 1962 and 1963

		1962		1963			
Grade		Shipments			Shipments		
	Production Quantity Selling value less containers containers		Production	Quantity	Selling value less containers		
	to	ns	\$		ns	\$	
Crude — No. 1, No. 2, and other Milled — Group 3 (spinning) Group 4 (shingle) Group 5 (paper) Group 6 (stucco) Group 7 (refuse) Group 8 (sand)	165 30, 117 362, 767 175, 288 205, 785 444, 125 7, 107	205 30, 374 355, 121 161, 952 209, 572 451, 521 7, 069	172, 160 12, 177, 014 63, 795, 235 19, 704, 471 16, 886, 983 17, 388, 098 158, 005	206 27, 848 381, 790 163, 689 236, 609 450, 306 8, 161	217 28, 987 380, 900 169, 198 234, 371 453, 821 8, 036	177, 045 11, 491, 041 68, 197, 436 20, 529, 812 18, 253, 938 18, 089, 255 217, 653	
Totals, all grades	1, 225, 354	1, 215, 814	130, 281, 966	1, 268, 609	1, 275, 530	136, 956, 180	
Gravel and stone (waste rock only)2	40, 733	40, 733	34,808	49,530	49,530	33, 557	

 $^{^1}$ The value of containers amounted to \$4,748,791 in 1962 and \$5,008,384 in 1963. 2 This production is included in the Sand and Gravel Pits report.

TABLE 3. Tonnage of Asbestos Rock Mined and Milled, 1959-63

	1959	1960	1961	1962	1963
Rock mined	23, 105, 241	33, 228, 170	38, 444, 213	42, 212, 705	45, 738, 901
	13, 975, 031	15, 298, 282	17, 055, 480	18, 007, 575	17, 710, 527

TABLE 4. Shipments of Asbestos by Canadian Mines, 1954-63

Year	Tons	Selling value at works ¹	Year	Tons	Selling value at works ¹
		\$			\$
1954	924, 116	86, 409, 212	1959	1,050,429	107, 433, 344
1955	1,063,802	96, 191, 317	1960	1, 118, 456	121, 400, 015
1956	1,014,249	99, 859, 969	1961	1, 173, 695	128, 955, 900
1957	1,046,086	104, 489, 431	1962	1, 215, 814	130, 281, 966
1958	925, 331	92, 276, 748	1963	1, 275, 530	136, 956, 180

¹ Value of containers excluded in 1955-63 but included in preceding years.

TABLE 5. Shipments of Asbestos by Canadian Mines by Months, 1962 and 1963

Month	1962	1963	Month	1962	1963
	tons			to	ns
January	73, 996	64, 016	August	117, 544	129, 906
February	67, 234	64,537	September	106, 635	110,769
March	75, 735	74, 984	October	116, 269	125, 255
April	102, 201	110,684	November	148,927	148, 395
May	117, 618	116,612	December	84,675	105, 119
June	108, 124	112,029			
July	96, 856	113, 224	Totals	1, 215, 814	1, 275, 530

TABLE 6. Imports and Exports of Asbestos and Asbestos Products, 1962 and 1963

Yearn		1962	1963		
Item	Tons	Value	Tons	Value	
		\$		\$	
Imports					
Asbestos clutch facings for automobiles, motor vehicles and chassis asbestos brake linings for automobiles, motor vehicles and chassis Asbestos brake linings and clutch facings, n.o.p	217	249,528 910,275 285,963 3,050,140 443,937	267	217,471 1,069,950 334,037 3,182,460 483,070	
Total accounted for		4, 939, 843	* * *	5, 286, 988	
Exports					
Asbestos (crude) Asbestos milled fibres — Group 3 Asbestos milled fibres — Group 4, 5 Asbestos milled fibres — Group 6, 7, 8 Asbestos brake lining facings Asbestos, asbestos cement building materials Asbestos, asbestos cement products n.e.s. Asbestos, manufactures, n.o.p.	504,196	155,164 11,614,144 87,387,534 36,480,804 389,436 364,126 417,190	28,184 527,235 650,811	165,097 11,626,444 90,081,149 37,574,754 361,913 × 751,231 374,837	
Total accounted for		136, 808, 398		140, 935, 423	

TABLE 7. Taxes Paid by the Asbestos Mines, 1962 and 1963

	1962	1963
	doll	lars
Dominion income tax, including tax on non-operating revenue	10, 890, 077	11,511,481
Provincial taxes: Mining taxes paid on net profits from production, including portion paid to municipality Taxes paid on capital and places of business Acreage taxes and royalties Corporation income tax	2, 684, 088 155, 031 7, 239 2, 917, 531	2,313,800 174,713 9,320 2,515,633
Total provincial	5, 763, 889	5,013,466
Municipal taxes: Based on property evaluation Based on non-operating revenue	1, 703, 064 17, 197	2,046,000 27,314
Total municipal	1,720,261	2,073,314
Grand total taxes paid	18, 374, 227	18, 598, 261

TABLE 8. Specified Miscellaneous Expenditures by Asbestos Mines, 1963

	1963
	\$
) Workmen's compensation	768,408
) Workmen's compensation) Silicosis assessment) Unemployment insurance) Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from out-	302,339
side contractors or suppliers and chargeable to Fixed Assets Account	10,291,302
repairs and alterations) produced by own employees and chargeable to Fixed Assets Account Other capital expenditures not reported in (d) and (e) (Land, etc.)	924,990 13.450
Octor capital expeditions not reported in (d) and (e) (Band, etc.) Cost of materials and supplies used in the construction or production of above Fixed Assets (e). Does not include the value of work done by outside contractors nor purchases of machinery and	13,430
equipment equipment control of all other goods, materials and supplies (including office, medical, laboratory, cafeteria	495,959
and store supplies) purchased and not chargeable to Fixed Assets Account	29,116,191

TABLE 9. Employees and their Earnings in the Asbestos Mines, 1958-63

		F	Employee	S			Earnings			
Year	Office and administrative		Workmen		Total	Man-hours worked (all employees)	Office and adminis-	Workmen	Total	
	Male	Female	Male	Female			trative			
				number				dollars		
1958	967	136	5,868	26	6,997	14, 156, 108	6,304,569	25,720,568	32, 025, 137	
1959	936	145	5,545	27	6,653	14, 106, 243	6,385,894	25,062,744	31,448,638	
1960	946	151	5.557	34	6,688	14,045,314	6,370,096	26,687,751	33,057,847	
1961	948	150	5,742	35	6,875	14,557,092	6,690,597	28,402,536	35,093,133	
1962	977	156	5,831	33	6,997	15,046,076	7,034,170	29,038,434	36,072,604	
1963	1,000	162	5,630	31	6,823	14,384,519	7,463,642	28,044,246	35,507,888	

TABLE 10. Number of Workmen, by Months, 1962 and 1963 (Administrative and Office Employees not Included)

	1962			19	063			
		Mine				Mill		
Month	Total	Surf	ace	Under- ground	Male	Female	Total	
		Male	Female	Male	Mate	remage		
January	5.688	2, 418	17	458	2,645	13	5,551	
February	5.779	2, 399	16	449	2,633	12	5, 509	
March	5,796	2,394	18	450	2,635	13	5,510	
April	5,807	2, 383	18	433	2,635	13	5,482	
May	5,914	2,451	18	442	2,683	13	5,607	
June	6,110	2,521	20	435	2.796	12	5,784	
July	6,136	2, 487	18	430	2,836	16	5,787	
August	6, 108	2,407	18	379	2,838	14	5,656	
September	5,874	2,530	19	426	2,826	13	5,814	
October	5,861	2,511	17	421	2,802	13	5,764	
November	5,756	2,503	18	432	2,780	13	5,746	
December	5,640	2,493	18	426	2.776	13	5,726	
Averages	5,864	2,458	18	431	2,741	13	5,661	
Man-hours worked	12,889,176						12, 201, 540	

TABLE 11. Fuel and Electricity Used in the Asbestos Mines, 1963

Kind	Quantity	Cost at plan	
			\$
Bituminous coal (a) From Canadian mines	short ton	4,136	58,652
(b) Imported	,,	_	_
ub-bituminous coal (from Alberta mines Only)	nd=+******	_	_
inthracite coal	short ton	130	2,200
ignite coal	*****		_
Coke (for fuel only)	D+++==	-	atesto
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	524,214	190, 254
Gerosen or coal oil		2,980	743
ruel oil	66	23,091,869	3,563,066
Vood (cords of 128 cubic feet of piled wood)	cord	4,219	62,264
as (a) Liquefied petroleum gases (propane, etc.)	Imp. gal.	38,805	20,428
(b) Other manufactured gas		_	_
(c) Natural gas	M cu. ft.	311,660	166,100
Other fuel	7	-	522
Electricity purchased for power and lighting	kwh.	540,629,073	3,573,802
Electricity purchased for other purposes	10,000,000	400	shate
Total (cost only)			7, 638, 031
Electricity generated (a) For own use	kwh.	14,363,375	0 u +
(b) For sale		_	_

TABLE 12. Drilling Completed on Asbestos Deposits, 1961-63

	Footage drilled			
	1961	1962	1963	
Diamond drilling for exploration and testing:				
By mining companies with their own personnel and equipment	28,018	_	distin	
By diamond drilling contractors	230,357	178,945	70,206	
Other diamond drilling: Blast hole diamond drilling:				
By mining companies with their own personnel and equipment	_	_		
By diamond drill contractors	-	_	deste	
Drilling by percussion or other machines ¹	5,433,667	6,462,201	8,163,948	

¹ Not complete as records are unobtainable at certain mines.

TABLE 13. World Production of Asbestos by Countries1,2

Source: Minerals Year Book published by the United States Bureau of Mines

Country ¹	1959	1960	1961	1962	1963
			short tons2		
North America:			1		
Canada (sales) United States (sold or used)	1,050,429 45,459	1, 118, 456 45, 223	1, 173, 695 52, 814	1, 215, 814 53, 190	1,272,024 66,606
Totals	1, 095, 888	1, 163, 679	1, 226, 509	1, 269, 004	1,338,630
South America:					
Argentina Bolivia (exports) Brazil Venezuela	320 168 3,700 5,095	66 3, 900 ³ , 4 4, 333	57 3, 400 ^{3, 4} 650	4, 900 ³ , 4	1, 440°
Totals ⁵	9, 283	8, 209	4, 100 ³	5,000 ³	1, 450
Europe:					
Austria Bulgaria Finland ⁶ France Italy Portugal	1, 100 9,579 23, 360 52,538 40	215 1,200 10,534 28,662 60,532 144	564 1,200 10,339 30,746 62,816 21	503 1,100³ 10,869 28,000 61,233	638 1, 100 ³ 10, 201 26, 455 63, 418
Spain U.S.S.R. ³ Yugoslavia	600,000 4,748	660,000 5,970	880,000 6,709	1, 100, 100 7, 401	1,200,000 9,074
Totals ³	690, 000	770,000	990,000	1, 210, 000	1, 310, 000
Asia:					
China ³ Cyprus India Japan Korea, Republic of Philippines Taiwan (Formosa) Turkey	90,000 14,424 1,464 13,633 88 56 150 411	90,000 23,316 1,886 17,042 740 36 485 238	100,000 16,207 1,618 18,799 341 83 44 496	100,000 22,391 1,705 15,407 1,333 1,037 525 709	110,000 220,000° 2,989 18,210 2,037 1,100³ 604 408
Totals ³	120,000	135, 000	138,000	143,000	157,000
Africa:			13		
Bechuanaland	1,410 43	1, 282 117	1, 924 151	2,375 212	2, 368 78
Morocco: Southern zone Mozambique Rhodesia and Nyasaland, Federation of:	37	22	162	370	370³
Southern Rhodesia South Africa, Republic of Swaziland United Arab Republic (Egypt)	119,699 182,405 24,806 502	133,963 175,867 32,027 496	161, 610 194, 834 30, 792 254	142, 196 221, 302 32, 830 606	142,254 205,744 33,350 192
Totals	328, 902	343,774	389, 726	399, 890	384, 356
Oceania:					
Australia New Zealand	17, 875 640	15,613 319	16,746 373	18, 392 457	15, 000 ³ 439
Totals	18, 515	15, 932	17, 119	18, 849	15, 440°
World totals (estimate) ^{1,2}	2,260,000	2, 440, 000	2, 770, 000	3,055,000	3, 200, 000

¹ In addition to countries listed, asbestos is produced in Czechoslovakia, Eritrea, North Korea, and Rumania. No

estimates are included in the total as production is believed to be negligible.

This table incorporates some revisions. Data do not add to totals shown because of rounding where estimated. figures are included in the detail.

3 Estimate.

4 Revised data represents fiber.

5 Bahia only.

6 Includes asbestos flour.

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. Revised January, 1961.

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

"Crude Asbestos" consists of the handselected 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 34 inch staple and longer.

Group No. 2, Crude No. 2. Consists basically of crude % inch staple up to % inch.

Crude run-of-mine Consists basically of unsorted crudes.

Crudes, sundry Consists of crudes other than above specified.

Fibres:

TABLES.	G(- 11) - 1	Guara		um shipping	test
	Standard designation of grades	½-inch screen	No. of our 4-mesh screen	10-mesh screen	Pan
Group No. 3	3F'	10.5	3.9	1.3	0.3
	3K	7	7	1.5	0.5
	3R	4	7	4	1
	3T	2	8	4	2
	3Z	1	9	4	2
Group No. 4	4A	0	8	6	2
	4H	0	5	8	3
	4K	0	4	9	3
	4M	0	4	8	4
	4R	0	3	9	4
	4T	0	2	10	4
	4Z	0	1.5	9.5	5
Group No. 5	5D	0	0.5	10.5	5
	5F	0	0	13	3
	5K	0	0	12	4
	5M	0	0	11	5
	5R	0	0	10	6
Group No. 6	6D	0	0	7	9
Group No. 7*	7D	0	0	5	11
	7F	0	0	4	12
	7H	0	0	3	13
	7K	0	0	2	14
	7M	0	0	1	15
	7R	0	0	0	16
	7T	0	0	0	16
	7 W	0	0	0	16
Group No. 8	8S	Under 50 po	unds per cu	bic foot loos	e measure.
	8T	Under 75 po	unds per cu	bic foot loos	e measure.
Group No. 9	9T	Over 75 po	unds per cu	bic foot loos	e measure.

[&]quot;The affix "F" designates "Floats" in all subsections of Group No. 7.

MINERAL STATISTICS



Operators of Asbestos Deposits, 1963

Name	Head office or general office	Location
Newfoundland:		
Advocate Mines Ltd.3	55 Yonge St., Toronto, Ontario	Baie verte
Quebec:		
Asbestos Corporation Ltd.3	Thetford Mines	Thetford Mines, Black Lake, Coleraine
Bell Asbestos Mines Ltd.3	Thetford Mines	Thetford Township
Canadian Johns-Manville Co. Ltd.3	310 Victoria St., Montreal	Asbestos
Canadian Refractories Ltd.	540 Canada Cement Bldg., Montreal	Kilmar
Carey Canadian Mines Ltd.3	Lennoxville	East Broughton Station
Chibougamau Asbestos Ltd.2	132 St. James St. W., Montreal	Roy Twp.
Flintkote Mines Ltd.3	Thetford Mines	Thetford Mines
Golden Age Mines Ltd.3	250 University Ave., Toronto 1, Ontario	Beauceville - Est
Johnson's Asbestos Company ³	Thetford Mines	Coleraine
Johnson's Company Ltd.3	Thetford Mines	Thetford Mines
Lake Asbestos of Quebec Ltd.3	Box 88, Black Lake	Black Lake
Montreal Titanium Corp. ²	C.P. 117, Coleraine	Coleraine
McAdam Mining Corp. Ltd.3	25 Adelaide St. E., Toronto, Ontario	McCorkill Twp.
National Asbestos Ltd.3	325 Delaware Ave., Buffalo, New York, U.S.A.	Thetford
Nicolet Asbestos Mines Ltd.3	2195 Crescent St., Montreal 25	Norbestos
North American Asbestos Co. Ltd.2	350 Est. Blvd. Charest, Quebec	St. Joseph de Beauce
Ontario:		
Canadian Johns-Manville Co. Ltd.3	Matheson	Munro Township
Hedman Mines Ltd.3	Box 467, Timmins	Warden and Munro Townships
Lightval Mines Ltd. ²	357 Bay St., Toronto	Harker Twp.
Young Davidson Mines Ltd. 1, 3	702-220 Bay St., Toronto	McColl Twp.
British Columbia;		
Asbestos Corporation (Explorations)	Thetford Mines, Quebec	Ainsworth, Slocan
Canadian Johns-Manville Co. Ltd. 1,3	Asbestos, Quebec	Sproat Mountain
Cassiar Asbestos Corp. Ltd. 3	85 Richmond St. W., Toronto, Ontario	Cassiar
	H 15	
Yukon:		1.7
Cassiar Asbestos Corp. Ltd. ²	85 Richmond St. W., Toronto	Clinton Creek

¹ Exploration or development work only.
² Holds dormant property.
³ Firms which constitute the Asbestos Mines Industry, for statistical purposes.