

CATALOGUE No.

26-218

ANNUAL



TALC AND SOAPSTONE MINES

1965

Published by Authority of
The Minister of Trade and Commerce



DOMINION BUREAU OF STATISTICS
Manufacturing and Primary Industries Division

September 1968
6503-534

Price: 50 cents

PUBLICATIONS ON MINERAL STATISTICS

Dominion Bureau of Statistics
Ottawa, Canada

Catalogue number	Name of publication	Price
Annual		
26-201	A - General Review of the Mineral Industries	\$.75
26-209	B - Gold Mining Industry .....	.75
26-216	C - Silver-Lead-Zinc Mines .....	.50
26-211	D - Nickel-Copper Mines .....	.50
26-210	E - Iron Mines .....	.50
26-219	F - Miscellaneous Metal Mines .....	.75
41-214	G - Smelting and Refining .....	.50
26-206	H - Coal Mines	1.00
26-213	I - Crude Petroleum and Natural Gas Industry .....	.50
26-205	J - Asbestos Mines .....	.50
26-208	K - Feldspar and Quartz Mines .....	.50
26-221	L - Gypsum Mines .....	.50
26-212	M - Peat Industry .....	.50
26-214	N - Salt Mines .....	.50
26-218	O - Talc and Soapstone Mines .....	.50
26-220	P - Miscellaneous Non-metal Mines .....	.75
44-204	Q - Cement Manufacturers .....	.50
44-215	R - Clay Products Manufacturers (from Domestic Clays) .....	.50
44-209	S - Lime Manufacturers .....	.50
26-215	T - Sand and Gravel Pits .....	.50
26-217	U - Stone Quarries .....	.50
26-207	V - Contract Drilling for the Mining Industry .....	.50
26-202	- Canada's Mineral Production (Preliminary Estimate) .....	.25
26-203	- Preliminary Report of Mineral Production .....	.75
26-204	- Mineral Industries: Principal Statistics .....	.25

Monthly

		Per copy	Per year
26-007	- Canada's Leading Minerals .....	.10	\$1.00
26-001	- Asbestos .....	.10	1.00
44-001	- Cement .....	.10	1.00
44-005	- Products Made from Canadian Clays .....	.10	1.00
45-002	- Coal and Coke Statistics .....	.25	2.00
26-003	- Copper and Nickel Production .....	.10	1.00
26-004	- Gold Production .....	.10	1.00
26-005	- Iron Ore .....	.10	1.00
26-006	- Crude Petroleum and Natural Gas Production .....	.10	1.00
26-009	- Salt .....	.10	1.00
26-008	- Silver, Lead and Zinc Production .....	.10	1.00

A complete catalogue of publications of the Dominion Bureau of Statistics is available upon request.

TALC AND SOAPSTONE MINES

1965

The industry Talc and Soapstone Mines is part of Other Non-metal Mines—Industry 079 of the Standard Industrial Classification Manual, Catalogue No. 12-501.

Ground talc, including soapstone and pyrophyllite, is used chiefly in the paint, roofing, paper, rubber, insecticide and ceramic industries. It is used also in foundry facings, bleaching fillers for textiles, cosmetics and pharmaceuticals, soaps and cleansers, plaster, polishes, plastics and for rice polishing. Soapstone is used extensively in the form of sawn blocks and bricks for lining the alkali recovery furnaces and kilns of kraft pulp and paper mills. Also it is used for brick and slab liners for fireboxes, stoves and ovens, and for switchboard panels, laboratory benches, etc. Considerable quantities of soapstone quarry and sawing waste are ground and used as low-grade talc in the rubber, roofing, foundry and other trades. Compact, massive talc, sawn into square pencils and slices, is an important material for steelmakers' crayons.

Canadian producers of talc, soapstone, pyrophyllite and steatite shipped 52,837 short tons valued at \$762,302 in 1965 compared with 58,132 tons valued at \$827,757 in the preceding year. These valuations include the value of containers.

In Newfoundland pyrophyllite was mined at Manuels, about 12 miles southwest of St. John's. Quebec mines produced ground talc and steatite,

also soapstone blocks and crayons. Talc of various particle sizes was shipped from the Madoc, Ontario area. There has been no production of talc or pyrophyllite from British Columbian properties in recent years.

Data presented in this report under the heading of Talc and Soapstone Mines (Tables 1-6) reflect the full implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept including an extension of the latter to cover total activities of mining establishments (see Explanatory Notes section of this report). Commodity statistics reflecting total production from all sources, world figures on production, trade data etc. are presented along the same general lines as in the earlier issues of this report.

The combination of improvements in internal procedures with the introduction of the final stage of the establishment concept in the annual Census of Mining produced changes which, for some industries, required major adjustments in industry statistical data—see Explanatory Notes, 1964 issue. However, in the case of the industry under review in this report, the changes were relatively minor. The higher cost of materials indicated reflects the broadening of the coverage of materials used under the new definition—see Explanatory Notes, 1964 issue.

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.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics,¹ Talc and Soapstone Mines, 1961-65

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Mining activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		\$'000					\$'000		\$'000	
1961	4	60	143	181	41	117	846	688	—	—	79	265	685
1962	4	65	148	189	43	137	807	627	—	—	82	269	625
1963	4	63	145	194	44	135	830	651	—	—	80	277	648
1964	4	71	163	224	47	144	916	725	—	—	91	324	720
1965	4	77	178	259	50	136	888	702	—	—	96	353	699

¹ Refer to Explanatory Notes, 1964 report for explanation of concepts and definitions. See also text page 3.**TABLE 2. Employment and Payroll, Talc and Soapstone Mines, 1961-65**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total
	Mining		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Mining	Other			
number										\$'000					
1961	60	—	—	—	15	4	—	—	75	4	181	—	83	—	265
1962	65	—	—	—	14	3	—	—	79	3	189	—	80	—	269
1963	63	—	—	—	14	3	—	—	77	3	194	—	83	—	277
1964	71	—	—	—	17	3	—	—	88	3	224	—	100	—	324
1965	77	—	—	—	16	3	—	—	93	3	259	—	94	—	353

See footnote Table 1.

TABLE 3. Production and Related Workers, Talc and Soapstone Mines, 1964 and 1965

Basis: Revised Standard Industrial Classification and New Establishment Concept

Month	1964				1965			
	Mine		Mill	Total	Mine		Mill	Total
	Surface	Under-ground			Surface	Under-ground		
	number							
January	17	6	17	40	27	11	22	60
February	10	7	20	37	21	11	22	54
March	10	9	22	41	21	12	24	57
April	21	10	23	54	23	15	21	59
May	29	10	24	63	41	14	23	78
June	39	13	28	80	45	14	25	84
July	40	14	31	85	47	18	27	92
August	41	17	30	88	47	17	29	93
September	42	16	28	86	47	18	24	89
October	42	21	28	91	46	18	22	86
November	44	21	27	92	46	14	25	85
December	43	23	27	93	46	17	23	86
Averages	32	14	25	71	38	15	24	77

TABLE 4. Purchased Fuel and Electricity Used, Talc and Soapstone Mines, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
Bituminous coal:				
(a) From Canadian mines	ton	1	—	—
(b) Imported	"	—	—	—
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	—	—	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	16,546	16,423	6
Fuel oil including kerosene or coal oil	"	25,868	28,001	6
Wood	cord	40	40	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	60	200	—
(b) Other manufactured gas	M cu.ft.	—	—	—
(c) Natural gas	"	—	—	—
Other fuel		—	—	—
Electricity purchased	kwh.	1,627,950	1,768,935	38
Steam purchased		—	—	—
Total fuel and electricity used		47	—	50
Electricity generated:				
(a) For own use	kwh.	—	—	—
(b) For sale		—	—	—

TABLE 5. Materials and Supplies,¹ Talc and Soapstone Mines, 1964 and 1965

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description	Cost	
	1964	1965
	\$'000	
Ore or other semi-processed materials purchased and used in mine/mill operations	—	—
Containers, shipping materials and supplies used	48	52
Operating, maintenance and repair supplies used (excluding fuel)	87	78
Amount paid out to others for work done on materials owned by establishments	9	10
Totals	144	136

¹ Refer to Explanatory Notes, 1964 issue, for explanations of differences in Tables 5 and 6 with data published in earlier years.

TABLE 6. Value of Production, Talc and Soapstone Mines, 1964 and 1965

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description	Value	
	1964	1965
	\$'000	
Value of production	916	888
Amount received in payment for work done on materials and products owned by others	—	—
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	—	—
Total value of production and work done	916	888

See footnote Table 5.

TABLE 7. Drilling Completed on Talc, Soapstone Deposits,¹ 1965

		Footage drilled
Diamond drilling for exploration (testing only):		
By mining companies with their own personnel and equipment		600
By diamond drilling contractors		—
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment		—
By diamond drilling contractors		—
Drilling by percussion or other machines ²		73,664

¹ Includes pyrophyllite.² Not complete as these data are not recorded by some companies.

TABLE 8. Specified Taxes Paid by Companies Engaged in Talc and Soapstone Mines Operations,¹ 1965

	Thousands of dollars
Dominion income taxes, including taxes on non-operating revenue	2
Provincial taxes	11
Municipal taxes	6

¹ Includes related corporate activities associated with operations of Talc and Soapstone mines.

TABLE 9. Miscellaneous Expenditures Made by Companies Engaged in Talc and Soapstone Mines Operations,¹ 1965

	Thousands of dollars
(a) Workmen's compensation	9
(b) Silicosis assessment	—
(c) Unemployment insurance	4
(d) Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors or suppliers and chargeable to Fixed Assets Account	74
(e) Book value of fixed assets (new structures, roads, machinery, equipment, etc., including major repairs and alterations) produced by own employees and chargeable to Fixed Assets Account	—
(f) Other capital expenditures not reported in (d) and (e)	33
(g) Cost of materials and supplies used in the production of machinery and equipment and in the construction of roads and new structures (including major repairs and alterations by own employees and chargeable to Fixed Assets Account)	—
(h) Cost of office supplies used during the year, not chargeable to Fixed Assets Account. Excludes cost of stamps and meter expenses	3

¹ Includes related corporate activities associated with Canadian operations of Talc and Soapstone mines and not allocable elsewhere.

TABLE 10. Producers' Shipments¹ of Talc and Soapstone, by Provinces, 1963-65

Province	1963		1964		1965	
	Quantity	Selling value f.o.b. shipping points	Quantity	Selling value f.o.b. shipping points	Quantity	Selling value f.o.b. shipping points
	tons	\$'000	tons	\$'000	tons	\$'000
Quebec (soapstone) ²	15,564	173	17,256	199	14,675	173
Newfoundland ³	38,686	585	40,876	629	38,162	589
Ontario						
Canada	54,250	758	58,132	828	52,837	762

¹ Includes both crude and milled grades also crayons and blocks. Value of containers is excluded.

² Shipments by some firms usually include a considerable quantity of material classified as talc.

³ Includes pyrophyllite.

TABLE 11. Shipments of Talc and Soapstone,¹ by Canadian Producers, 1956-65

Year	Tons	Value	Year	Tons	Value
		\$'000			\$'000
1956	29,326	365	1961	48,116	691
1957	34,725	428	1962	46,161	625
1958	35,405	429	1963	54,250	758
1959	39,176	512	1964	58,132	828
1960	41,636	523	1965	52,837	762

¹ Includes pyrophyllite.

TABLE 12. Imports and Exports of Talc and Soapstone, 1963-65

	1963		1964		1965	
	Tons	Value	Tons	Value	Tons	Value
		\$'000		\$'000		\$'000
Imports:						
United Kingdom	—	—	—	—	—	—
France	6	—	—	—	11	1
Italy	1,194	84	1,711	119	998	68
United States	26,339	1,204	29,887	1,267	26,849	1,174
Totals	27,539	1,289	31,598	1,386	27,858	1,243
Exports	Not shown separately					

Source: Trade of Canada, "Imports by Commodities", Catalogue No. 65-007 and "Exports by Commodities", Catalogue No. 65-004.

TABLE 13. Available Statistics on the Consumption of Ground Talc and Soapstone, 1964 and 1965

	1964	1965
	tons	
By uses:		
Rubber footwear	101	175
Tires and tubes	529	443
Other rubber products	745	652
Asphalt roofing	9,818	8,797
Small electrical appliances	—	45
Communications equipment	—	—
Electrical industrial equipment	7	2
Batteries	—	—
Electric wire and cable	97	117
Clay products (imported clays)	10,208	9,892
Other petroleum and coal products	1,896	—
Pharmaceuticals and medicines	358	426
Paint and varnish	9,215	7,742
Soap and cleaning compounds	42	35
Toilet preparations	905	791
Other chemicals industries	2,057	1,866
Totals accounted for	35,978	30,983
By provinces:		
Nova Scotia and Newfoundland	223	207
New Brunswick	189	137
Quebec	14,574	14,078
Ontario	16,796	12,420
Manitoba	1,719	1,643
Saskatchewan	—	—
Alberta	1,421	1,443
British Columbia	1,056	1,066
Totals	35,978	30,983

TABLE 14. World Production of Talc, Pyrophyllite and Soapstone, by Countries¹

(Extracted from the annual review issued by the U.S. Bureau of Mines)

Country ¹	1961	1962	1963	1964	1965
	short tons				
North America:					
Canada (shipments)	48,116	46,161	54,250	58,132	55,034
Mexico	4,616	4,400 ²	4,400 ²	4,400 ²	4,400 ²
United States	762,380	771,728	804,358	889,949	862,875
South America:					
Argentina	32,042	31,645	30,932	26,904	28,000 ²
Brazil	26,209	42,218	38,487	53,038	53,000 ²
Chile	2,056	2,095	2,846	3,042	1,641
Colombia	600	720	720	805	440
Paraguay	—	—	—	52	154
Peru	3,236	1,896	2,870	2,943	5,602
Uruguay	1,857	1,890	1,890	2,341	2,618
Europe:					
Austria	93,639	83,523	72,360	79,225	82,675
Finland	6,967	7,088	7,447	7,000	8,000
France	245,427	206,000	174,298	226,000	218,000
Germany, West (marketable)	32,696	30,411	29,000	30,975	34,000
Greece	2,044	2,662	3,000 ²	3,000 ²	4,000 ²
Italy	148,706	142,860	153,590	145,707	131,481
Norway	100,799	100,040	80,537	84,986	88,000
Portugal	794	359	595	880	783
Spain	30,498	30,562	30,317	29,550	30,000 ²
Sweden	17,270	19,201	20,696	18,409	19,000 ²
U.S.S.R. ²	330,000	340,000	385,000	385,000	395,000
United Kingdom	7,761	8,240	8,933	11,374	11,000 ²
Africa:					
Rhodesia, Southern	—	23	21	15	90 ²
South Africa, Republic of	3,279	13,921	7,566	7,294	10,187
Swaziland	2,955	3,902	3,052	2,199	1,014
United Arab Republic (Egypt)	6,565	6,753	7,861	18,542	43,682
Asia:					
China, mainland ²	165,000	165,000	165,000	165,000	165,000
India	106,696	121,749	133,357	147,710	164,646
Japan	699,510	649,651	944,551	1,162,646	1,163,000 ²
Korea, North ²	17,000	22,000	22,000	22,000	22,000
Korea, South	50,330	51,235	70,772	99,272	93,306
Pakistan (soapstone)	1,361	1,235	2,061	2,821	3,135
Philippines	209	130	105	108	654
Taiwan	14,824	14,781	16,300	18,718	16,787
Oceania:					
Australia	16,613	16,790	15,616	19,146	21,000 ²
World totals²	3,090,000	3,050,000	3,410,000	3,840,000	3,870,000

¹ Talc or pyrophyllite is reported in Rumania, but data are not available; estimates are included in total.² Estimate.

List of Establishments classified to this Industry, 1965

(Does not include establishments classified to other industries which might recover talc or soap stone as a secondary product.)

Name	Head office address	Location of plant or mine
Newfoundland:		
Newfoundland Minerals Ltd.	Box 1196, St. John's	Long Pond, Conception Bay
Quebec:		
Baker Talc Limited	621 Craig St. W., Montreal	Highwater
Broughton Soapstone & Quartz Co. Ltd.	Broughton Station	Broughton
Ontario:		
Canada Talc Industries Ltd.	Box 250, Madoc	Huntingdon Twp.

STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010657472