

PRELIMINARY ESTIMATE OF CANADA'S MINERAL PRODUCTION
1962

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Canada's mineral industry reached a record high in 1962 when the value of shipments was \$2.84 billion according to an estimate prepared by the Dominion Bureau of Statistics, Ottawa. This was an increase of roughly 10 per cent over the valuation of \$2,582 billion of the preceding year. The leading mineral commodities were: crude petroleum, \$583 million; nickel, \$385 million; copper \$283 million; iron ore, \$264 million; gold, \$155 million; uranium, \$151 million and asbestos, \$132 million.

Metals were valued at \$1,481 million, an increase of \$94 million over the valuation of \$1,387 million in 1961. After twenty years, it appeared that the producers of nickel were able to satisfy the market demand and began reducing output during the later months of the year. New iron mines added to Canada's exports of iron ore. The gold mines received an average price of \$37.41 per troy ounce for their gold, due to the devaluation of the Canadian dollar in terms of United States dollar. Despite the increased price the total quantity and total value of gold was less than in the preceding year. As was anticipated, the quantity and value of uranium continued to diminish. Silver increased in the price, reaching \$1.30 per troy ounce. Most of the silver in Canada is associated with other metals, thus the mines can not produce more silver without producing more lead, or zinc or copper into an overloaded market.

Shipments of non-metallic minerals were valued at \$215 million. Included in this figure was \$132 million worth of asbestos. Although asbestos is produced in British Columbia and Ontario the greater portion is mined in the Eastern Townships of Quebec. More rock salt was produced than ever before, the total tonnage of rock salt, fine vacuum salt, and salt in brine, was 3.6 million. A new potash mine in Saskatchewan came into production. Gypsum tonnage remained fairly level. As was expected there were large quantities of elemental sulphur produced from sour natural gas in western Canada. The producers were able to dispose of exceptionally large portions of the output.

Mineral or fossil fuels were worth \$797 million an increase of \$144 from \$653 million in 1961. Crude petroleum shipments were 244 million barrels, which included 165 million from Alberta and 64 million from Saskatchewan. Natural gas output, less waste and flared, amounted to 955,000 million cubic feet. Natural gas by-products which include condensate, natural gasoline, propane, butane, etc. were obtained by processing natural gas in the vicinity of the gas fields. Coal shipments decreased as more coal mines ceased operations.

There was about a 6 per cent increase in the value of structural materials. Clay products such as brick, tile, flue linings and pottery amounted to about \$38 million. Cement was valued at nearly \$114 million. The combined value of stone, sand and gravel was \$181 million.

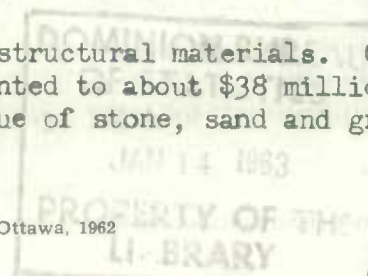


Table 1 - VALUE OF MINERAL PRODUCTION OF CANADA, BY CLASSES, 1953-1962

Year	Metallics	Non-metallics	Mineral fuels	Structural materials	T O T A L
(dollars)					
1953	709,920,510	124,999,607	314,181,168	187,202,218	1,336,303,503
1954	802,401,423	128,038,507	352,959,465	204,982,696	1,488,382,091
1955	1,007,839,501	144,920,841	414,318,015	228,232,439	1,795,310,796
1956	1,146,349,595	160,341,599	518,761,191	259,453,169	2,084,905,554
1957	1,159,579,226	169,061,110	564,776,791	296,905,265	2,190,322,392
1958	1,130,160,395	150,354,802	510,768,681	309,455,160	2,100,739,038
1959	1,370,648,535	178,216,641	535,577,823	324,577,512	2,409,020,511
1960	1,406,558,061	197,505,783	565,851,829	322,594,308	2,492,509,981
1961	1,387,159,036	210,467,786	653,327,802	331,345,763	2,582,300,387
1962	1,481,462,362	215,584,368	796,851,086	350,266,379	2,844,164,195

Table 2 - MINERAL PRODUCTION OF CANADA, BY PROVINCES, 1960-1962

Province	1 9 6 0		1 9 6 1		1 9 6 2	
	\$	Per cent	\$	Per cent	\$	Per cent
Newfoundland	86,637,123	3.5	91,618,709	3.6	98,261,813	3.4
Prince Edward Is. .	1,172,587	0.1	606,644	0.1	796,043	0.1
Nova Scotia	65,453,531	2.6	61,693,156	2.4	62,859,039	2.2
New Brunswick	17,072,739	0.7	18,804,385	0.7	26,084,991	0.9
Quebec	446,202,726	17.9	455,522,933	17.6	519,145,596	18.3
Ontario	983,104,412	39.4	943,669,456	36.5	902,133,708	31.7
Manitoba	58,702,697	2.3	101,489,787	3.9	159,038,359	5.6
Saskatchewan	212,093,225	8.5	215,977,233	8.4	236,577,640	8.3
Alberta	395,344,010	15.9	473,480,540	18.3	578,821,732	20.3
British Columbia ..	186,261,646	7.5	188,542,078	7.3	229,427,347	8.1
Northwest Territories .	27,135,087	1.1	18,145,162	0.7	17,701,145	0.6
Yukon	13,330,198	0.5	12,750,304	0.5	13,316,782	0.5
Total	2,492,509,981	100.0	2,582,300,387	100.0	2,844,164,195	100.0

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1961 and 1962

	Unit of measure	1961		1962	
		Quantity	Value	Quantity	Value
<u>Metallies</u>			\$		\$
Antimony	lb.	1,331,297	469,948	1,819,876	642,416
Bismuth	lb.	478,118	957,625	375,345	739,705
Cadmium	lb.	1,357,874	2,172,598	2,153,448	3,703,931
Calcium	lb.	99,355	100,881	104,850	102,438
Cobalt	lb.	3,182,897	4,751,543	3,441,746	6,382,502
Columbium (Cb ₂ O ₅).....	lb.	62,229	65,619	967,000	953,756
Copper.....	lb.	878,175,084	255,157,626	917,180,648	283,133,249
Gold	troy oz.	4,473,699	158,637,366	4,155,210	155,446,407
Indium	troy oz.	..	..	..	..
Iron ore	ton	20,359,003	187,950,047	27,898,713	264,608,450
Iron, remelt	ton	...	14,720,064	...	7,035,921
Lead	lb.	460,869,392	47,054,765	381,217,587	37,816,785
Magnesium	lb.	15,270,618	4,307,570	16,469,917	4,611,576
Molybdenum	lb.	771,358	1,092,201	797,452	1,228,672
Nickel	lb.	465,982,868	351,261,720	464,136,039	385,224,707
Platinum, group .	troy oz.	418,278	24,534,349	453,526	28,085,528
Selenium	lb.	430,612	2,798,978	506,015	2,799,929
Silver	troy oz.	31,381,977	29,580,651	29,955,465	36,077,604
Tantalum (Ta ₂ O ₅)	lb.	-	-	-	-
Tellurium	lb.	77,609	376,404	61,211	367,466
Thorium	lb.	..	..	..	..
Tin	lb.	1,119,350	727,578	688,414	447,469
Titanium ore	ton	-	-	-	-
Tungston (WO ₃)	lb.	-	-	-	-
Uranium (U ₃ O ₈)	lb.	19,281,465	195,691,624	16,862,823	151,425,006
Zine	lb.	832,008,584	104,749,879	914,287,984	110,628,845
Total metallies .. ...		... 1,387,159,036		... 1,481,462,362	
<u>Non-metallies</u>					
Arsenious oxide	lb.	419,300	16,772	186,250	7,950
Asbestos	ton	1,173,695	128,955,900	1,223,509	132,060,710
Barite	ton	191,404	1,799,119	229,271	2,165,862
Diatomite	ton	214	8,817	62	2,468
Feldspar	ton	10,507	229,626	10,000	220,000
Fluorspar	ton	..	1,990,200	..	1,870,184
Garnet	ton	80	3,200	50	2,000
Graphite	ton	1	146	-	-
Grindstone	ton	10	2,000	10	2,000
Gypsum	ton	4,940,037	7,750,748	5,183,911	9,033,148
Iron oxides	ton	808	68,199	821	61,332
Lithia	lb.	536,190	392,871	484,500	650,000
Magnesitic-dolomite and brucite .....	...	..	3,064,403	..	3,395,824
Mica	lb.	1,816,160	125,377	1,525,300	100,868
Mineral waters	gal	364,933	208,709	367,000	212,800
Nepheline syenite	ton	240,320	2,572,169	281,100	3,383,700



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Preliminary Estimate

- 4 -

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1961 and 1962 (Concluded)

Unit of measure	1961		1962	
	Quantity	Value \$	Quantity	Value \$
<u>Non-metallics</u> (Concluded)				
Peat moss	ton 224,031	7,295,087	232,445	7,669,367
Potash, (K ₂ O)	ton -	-	..	2,121,073
Pozzolana	ton ..	2,000	..	5,000
Pyrite, pyrrhotite	ton 517,258	1,830,566	532,082	1,703,225
Quartz	ton 2,194,054	3,152,882	2,010,104	3,556,724
Salt	ton 3,246,527	19,552,006	3,606,811	23,185,423
Soapstone and talc * ...	ton 48,116	690,630	46,794	674,910
Sodium sulphate	ton 250,996	4,036,625	250,739	4,040,000
Sulphur in smelter gas .	ton 277,056	2,708,110	286,566	2,777,262
Sulphur, elemental	ton 394,762	7,287,881	668,126	8,903,209
Titanium dioxide, etc. .	ton ..	16,723,743	..	7,779,329
Total non-metallics .. ...	...	210,467,786	...	215,584,368
* Includes pyrophyllite				
<u>Mineral - Fuels</u>				
Coal	ton 10,397,704	70,052,683	10,257,892	68,527,159
Natural gas	M. cu. ft. 655,737,644	68,421,918	955,526,300	97,912,950
Nat. gas By-products ...	bbl ...	27,292,959	...	46,818,065
Petroleum, crude	bbl 220,848,080	487,560,242	244,007,849	583,592,912
Total fuels .....	...	653,327,802	...	796,851,086
<u>Structural Materials</u>				
Clay products (brick, tile, etc.) .....	... ..	36,982,948	...	37,738,098
Cement	ton 6,205,948	103,923,644	6,786,229	113,864,118
Lime	ton 1,415,290	19,217,371	1,380,624	17,628,000
Sand and gravel	ton 170,750,947	104,654,132	167,328,097	118,228,032
Stone	ton 48,938,804	66,567,668	45,270,476	62,808,131
Total structural materials .....	...	331,345,763	...	350,266,379
GRAND TOTAL	2,582,300,387	...	2,844,164,195

.. figures not available

... figures not appropriate or not applicable

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