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CANADA'S MINERAL PRODUCTION (Preliminary Estimate) 1968

Shipments of Canadian minerals reached an all time peak in 1968. According to an estimate prepared by the Dominion Bureau of Statistics, Ottawa, the total value of minerals was in excess of \$4.7 billion, compared with \$4.4 billion in 1967, an increase of 7.77 per cent. The values of the leading mineral commodities were: crude petroleum, \$933 million; copper, \$593 million; iron ore, \$556 million; nickel, \$527 million; zinc, \$329 million and natural gas, \$225 million.

Shipments of the metallic group - metals, ores and concentrates were valued at \$2,490 million. Copper shipments exceeded 616,000 tons while shipments of nickel were over 262,000 tons. Zinc shipments recorded a new high in excess of 1,168,000 tons and lead also reached a new peak of 346,000 tons. A larger part of the 49 million tons of iron ore was in the form of pellets which increased the unit shipping value. While the quantity of uranium shipments was practically the same as in the previous year there was a considerable drop in value. Producers shipments of silver exceeded 45 million ounces with a marked increase in value as silver prices soared to new highs. Gold output continued to decline.

Over \$458 million worth of non-metallic minerals were shipped during 1968. This represents an increase of almost 13 per cent over the previous year. Both tonnage and value of asbestos shipments increased during the year. Gypsum rose in tonnage and also in value while nepheline syenite declined. Potash shipments from the deposits in Saskatchewan rose from \$67 million in 1967 to \$74 million in 1968. Higher sulphur prices during the year coupled with increased output from sour gas in the western provinces accounted for an all time high value of \$81 million. New plants in Saskatchewan were responsible for an increase in the value of natural sodium sulphate to \$7.4 million.

Mineral or fossil fuels shipped during the year had a total value of \$1,342 million, an increase of 6.6 per cent over 1967. Quantity of coal shipped remained at about the same level as the previous year but shipments values were considerably reduced as government subsidies were removed. The volume of natural gas was over 1.6 trillion cubic feet. The natural gas by-products such as condensate, propane, butane, etc. were worth \$121 million. Most of the 377 million barrels of crude petroleum was from wells in western Canada.

Estimated value of structural materials declined slightly from the preceding year to \$444 million. Products made from domestic clay, such as brick, tile, flue linings, sewer pipe and pottery were valued at \$46 million. Cement shipments increased slightly both in quantity and value. Sand and gravel used for roads, concrete aggregate, etc. were worth \$128 million. Stone added \$96 million to the mineral output.

TABLE 1. Value of Mineral Production of Canada, by Classes, 1959-68

Year	Metals	Non-metals	Fossil fuels	Structural materials	Total
dollars					
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	1,496,433,950	217,453,009	780,932,387	356,166,833	2,850,986,179
1963	1,509,536,931	253,452,413	908,428,087	379,011,116	3,050,428,547
1964	1,701,648,538	284,497,000	998,767,672	403,058,324	3,387,971,534
1965	1,907,575,899	327,238,901	1,076,494,117	434,161,904	3,745,470,821
1966	1,984,672,572	363,387,717	1,150,611,731	474,108,899	3,972,780,919
1967	2,285,547,427	406,269,252	1,258,924,742	448,197,382	4,398,938,803
1968	2,490,089,258	464,334,935	1,342,091,937	444,406,602	4,740,922,732

TABLE 2. Mineral Production of Canada, by Provinces, 1966-68

Provinces	1966		1967		1968	
	Dollars	Per cent	Dollars	Per cent	Dollars	Per cent
Newfoundland	244,020,086	6.1	266,633,099	6.1	323,663,829	6.8
Prince Edward Island	2,756,780	0.1	2,605,806	0.1	1,432,187	0.1
Nova Scotia	85,416,974	2.2	77,226,142	1.8	58,399,179	1.2
New Brunswick ...	90,221,237	2.3	90,418,690	2.1	86,799,414	1.8
Quebec	762,944,986	19.2	734,141,939	16.7	731,373,022	15.4
Ontario	957,857,765	24.1	1,194,545,248	27.1	1,340,369,094	28.3
Manitoba	179,241,152	4.5	184,679,374	4.2	204,934,815	4.3
Saskatchewan	349,303,729	8.8	362,193,519	8.2	376,453,226	7.9
Alberta	846,678,642	21.3	973,326,938	22.1	1,080,420,896	22.8
British Columbia	331,143,633	8.3	379,986,091	8.6	391,366,130	8.3
Yukon	11,975,757	0.3	14,990,529	0.3	23,496,328	0.5
N.W. Territories	111,220,178	2.8	118,191,428	2.7	122,214,612	2.6
Totals	3,972,780,919	100.0	4,398,938,803	100.0	4,740,922,732	100.0

TABLE 3. Mineral Production of Canada, by Kinds, 1967 and 1968

		1967		1968	
		Quantity	Value	Quantity	Value
			dollars		dollars
<u>Metallics</u>					
Antimony	lb.	1,267,686	671,874	1,124,000	595,720
Bismuth	"	668,476	1,918,951	639,866	2,435,399
Cadmium	"	4,836,317	13,541,688	5,437,917	15,287,811
Calcium	"	543,692	535,509	445,612	421,756
Cobalt	"	3,603,773	7,352,433	3,488,656	7,490,060
Columbium (Cb ₂ O ₅)	"	2,159,557	2,404,475	2,118,000	2,393,340
Copper	"	1,226,627,725	582,585,272	1,233,152,827	593,083,576
Gold	troy oz.	2,993,366	112,999,568	2,748,333	103,639,636
Indium .....	"	..	..	..	..
Iron ore	ton	42,317,800	470,121,685	49,373,329	555,912,519
Iron, remelt	"	..	18,584,745	..	22,523,000
Lead	lb.	635,926,511	89,029,711	693,760,476	93,796,415
Magnesium	"	17,774,684	5,654,243	19,756,598	6,153,270
Mercury .....	"	-	-	..	..
Molybdenum	"	21,376,766	37,900,039	20,006,958	36,026,623
Nickel	"	497,294,289	463,139,703	527,697,695	527,005,070
Platinum group ...	troy oz.	401,263	34,668,915	464,400	44,025,124
Selenium	lb.	724,573	3,514,179	709,200	3,280,345
Silver	troy oz.	36,315,189	62,897,907	45,621,355	105,750,300
Tellurium	lb.	73,219	475,925	65,193	419,990
Thorium (ThO ₂)	"	117,383	214,597	139,191	269,128
Tin	"	437,804	621,682	335,147	552,993
Titanium ore	ton	-	-	-	-
Tungsten (WO ₃)	lb.	..	..	..	..
Uranium (U ₃ O ₈)	"	7,476,228	53,021,936	7,400,000	38,482,000
Yttrium (Y ₂ O ₃)	"	172,551	1,594,298	111,326	934,986
Zinc	"	2,222,906,092	322,099,092	2,337,660,977	329,610,197
Total metallics .....		...	2,285,547,427	...	2,490,089,258
<u>Non-metallics</u>					
Arsenious oxide	lb.	755,050	48,193	692,564	51,942
Asbestos	ton	1,452,104	165,118,786	1,596,011	190,068,054
Barite	"	172,270	1,573,370	137,699	1,581,129
Diatomite .....	"	..	..	..	..
Feldspar	"	10,394	241,715	10,708	258,723
Fluorspar	"	..	2,099,855	..	2,474,362
Gem stones	lb.	24,160	28,341	7,110	10,125
Grindstone	ton	10	3,000	-	-
Gypsum	"	5,175,384	11,348,351	6,145,193	13,158,742
Helium	mcf.	..	..	..	..
Iron oxides	ton	664	37,023	600	33,000
Lithia	lb.	436,894	266,226	-	-
Magnetitic dolomite, brucite	ton	..	3,515,917	..	2,719,377
Mica	lb.	..	..	..	..
Nepheline syenite	ton	401,601	4,752,875	325,463	3,929,446

See footnotes at end of table.



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Preliminary Estimate

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TABLE 3. Mineral Production of Canada, by Kinds, 1967 and 1968 - Concluded

	1967		1968	
	Quantity	Value dollars	Quantity	Value dollars
<u>Non-metallics - Concluded</u>				
Nitrogen	Mcf.	..	..	..
Peat Moss	ton	280,731	288,219	8,617,661
Potash, (K ₂ O)	"	2,383,253	2,890,733	73,950,000
Pyrite, pyrrhotite	"	377,941	320,090	2,215,161
Quartz	"	2,610,740	2,621,326	6,459,343
Salt	"	5,361,463	4,887,634	31,907,986
Soapstone and talc(1) ...	"	60,665	77,300	1,194,000
Sodium sulphate	"	428,316	469,076	7,403,494
Sulphur, in smelter gas	"	592,035	565,696	6,951,687
Sulphur, elemental	"	2,499,205	2,585,513	81,276,703
Titanium dioxide, etc. ...	"	..	..	24,574,000
Total non-metallics ...	...	406,269,252	...	458,834,935
<u>Mineral fuels</u>				
Coal	ton	11,148,716	10,973,753	61,266,762
Natural gas	Mcf.	1,471,724,535	1,642,636,000	225,682,325
Nat. gas By-products	bbl.	..	..	121,722,600
Petroleum, crude	"	351,292,332	377,694,500	933,420,250
Total fuels .....	...	1,258,924,742	...	1,342,091,937
<u>Structural materials</u>				
Clay products (brick, tile, etc.) .....	...	44,356,825	...	46,264,483
Cement	ton	7,994,954	8,279,152	156,541,049
Lime	"	1,422,899	1,365,988	17,086,528
Sand and gravel	"	209,665,578	198,528,587	128,100,791
Stone	"	80,636,102	74,683,885	96,413,751
Total structural materials .....	...	448,197,382	...	444,406,602
Grand total .....	...	4,398,938,803	...	4,735,422,732

(1) Includes pyrophyllite.

.. Figures not available.

... Figures not appropriate or not applicable.

- Nil or zero.