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PRELIMINARY ESTIMATE OF CANADA'S MINERAL PRODUCTION

1961

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Producers in the Canadian mineral industry in 1961 shipped \$2.56 billion worth of mineral commodities according to a preliminary estimate prepared by the Dominion Bureau of Statistics, Ottawa. This was a modest increase of about 2.8 per cent above the total value of minerals in 1960 which amounted to \$2,492 million. Valuations of the leading minerals were, crude petroleum, \$487 million; nickel \$357 million, copper \$258 million; uranium \$204 million, iron ore \$180 million; gold \$157 million and asbestos \$131 million.

The value of metals declined to \$1,385 million from \$1,406 million in the preceding year. Uranium shipments decreased by \$65 million. This was anticipated some time ago when it was announced that the deliveries of uranium would be extended over a longer period of time. The new nickel mine in Manitoba helped to increase the total tonnage of that metal to over 237,000. The prices of gold and base metals were increased at mid year when the exchange rate on the Canadian dollar changed from a premium to a discount. The demand for iron ore continued to be rather limited.

Non-metallic minerals exceeded \$210 million in value, due chiefly to the asbestos industry which shipped nearly 1.2 million tons of fibre valued at \$131 million. A new high was established despite of the competition from Asian and African producers. Lithia in concentrates, oxides carbonates and salts were valued at over \$360 thousand. Sales of salt were \$19 million which was only slightly less than in 1960. Elemental sulphur output increased directly as the output of sour natural gas. Although the natural gas processing plants produce more sulphur than the market demand, there has been an increase in sales.

The value of mineral or fossil fuels increased to \$643 million in 1961 from \$566 million in the preceding year. After a mild revival in 1960, the coal industry resumed the decline of several preceding years. Crude oil production rose to 220 million barrels. The volume of natural gas was 646,000 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.

There was not much change in the value of structural materials which amounted to \$323 million in 1961 and over \$322 million in 1960. Cement shipments exceeded \$100 million in value for the first time. Lime shipments declined. There was less stone, sand and gravel used during 1961.

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Table 1 - VALUE OF MINERAL PRODUCTION OF CANADA, BY CLASSES, 1952-1961

Year	Metallics	Non-metallics	Mineral fuels	Structural materials	T O T A L
	(dollars)				
1952	728,458,160	124,493,256	263,582,319	168,808,618	1,285,342,353
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	1,385,176,509	210,250,683	643,425,160	323,092,906	2,561,945,258

TABLE 2 - MINERAL PRODUCTION OF CANADA, BY PROVINCES, 1959-1961

Province	1959		1960		1961	
	\$	Per cent	\$	Per cent	\$	Per cent
Newfoundland	72,156,996	3.0	86,637,123	3.5	92,681,614	3.6
Prince Edward Is. .	4,559,171	0.2	1,172,587	0.1	947,186	0.1
Nova Scotia	62,879,647	2.6	65,453,531	2.6	59,544,574	2.3
New Brunswick	18,133,290	0.8	17,072,739	0.7	17,851,151	0.7
Quebec	440,897,186	18.3	446,202,726	17.9	447,437,159	17.5
Ontario	970,762,201	40.3	983,104,412	39.4	936,418,007	36.5
Manitoba	55,512,410	2.3	58,702,697	2.3	99,156,908	3.9
Saskatchewan	210,042,051	8.7	212,093,225	8.5	218,201,040	8.5
Alberta	376,215,593	15.6	395,344,010	15.9	463,709,114	18.1
British Columbia ..	159,395,092	6.6	186,261,646	7.5	192,319,685	7.5
Northwest Territories .	25,874,496	1.1	27,135,087	1.1	20,691,909	0.8
Yukon	12,592,378	0.5	13,330,198	0.5	12,986,911	0.5
Total	2,409,020,511	100.0	2,492,509,981	100.0	2,561,945,258	100.0

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1960 and 1961

	Unit of measure	1960		1961	
		Quantity	Value \$	Quantity	Value \$
<u>Metallics</u>					
Antimony	lb.	1,651,786	538,482	1,308,015	461,729
Bismuth	lb.	423,827	762,048	479,700	886,933
Cadmium	lb.	2,357,497	3,347,646	2,399,095	3,838,552
Calcium	lb.	134,801	159,241	72,597	76,359
Cobalt	lb.	3,568,811	6,763,016	3,236,323	4,902,657
Columbium (Cb ₂ O ₅)	lb.	-	-	61,050	64,375
Copper	lb.	878,524,096	264,846,637	889,270,964	258,582,247
Gold.....	troy oz.	4,628,911	157,151,527	4,425,820	156,851,060
Indium	troy oz.	...	...	...	...
Iron ore	ton	21,550,830	175,082,523	20,383,333	180,457,020
Iron, remelt	ton	...	10,972,979	...	14,481,184
Lead	lb.	411,300,451	43,926,888	462,394,101	47,395,393
Magnesium	lb.	14,577,138	4,313,987	15,480,618	4,334,573
Molybdenum	lb.	767,621	1,015,380	765,897	1,085,091
Nickel	lb.	429,012,707	295,640,279	475,895,770	357,515,337
Platinum, group .	troy oz.	483,604	28,873,508	404,883	23,829,172
Selenium	lb.	521,638	3,651,466	469,892	2,990,595
Silver	troy oz.	34,016,829	30,244,363	31,981,210	30,068,733
Tantalum (Ta ₂ O ₅)	lb.	-	-	-	-
Tellurium	lb.	44,682	156,388	95,873	475,545
Thorium	lb.	...	...	...	...
Tin	lb.	621,718	522,243	870,569	797,180
Titanium ore	ton	2,947	16,265	-	-
Uranium (U ₃ O ₈)	lb.	25,495,369	269,938,192	19,644,905	204,138,553
Zinc	lb.	813,745,341	108,635,003	824,726,932	91,944,221
Total metallics ... ..		...	1,406,558,061	...	1,385,176,509
<u>Non-metallics</u>					
Arsenious oxide	lb.	1,724,326	70,400	306,363	16,350
Asbestos	ton	1,118,456	121,400,015	1,171,245	131,053,441
Barite	ton	154,292	1,462,212	177,954	1,607,442
Diatomite	ton	44	1,430	25	500
Feldspar	ton	13,862	239,273	9,852	215,326
Fluorspar	ton	...	1,921,820	...	1,904,000
Garnet	ton	32	4,480	33	4,620
Graphite	ton	-	-	3	1,654
Grindstone	ton	10	2,000	8	1,600
Gypsum	ton	5,205,731	9,498,711	5,014,905	9,098,571
Iron oxides	ton	909	76,780	690	57,110
Lithia	lb.	204,666	84,135	515,110	362,850
Magnesitic-dolomite and brucite ....	...	...	3,279,021	...	2,992,101
Mica	lb.	1,702,605	94,203	2,061,970	131,375
Mineral waters	gal	375,425	201,764	375,500	201,800
Nepheline syenite	ton	240,636	2,891,095	247,688	2,473,118



Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1960 and 1961 (Concluded)

	Unit of measure	1960		1961	
		Quantity	Value	Quantity	Value
			\$		\$
<u>Non-metallics</u> (Concluded)					
Peat moss	ton	185,784	6,088,138	195,030	6,328,953
Potash, (K ₂ O).....	ton	...	178,700	-	-
Pyrite, pyrrhotite	ton	1,032,288	3,316,378	505,912	1,493,546
Quartz	ton	2,260,766	3,266,705	2,168,005	2,828,198
Salt	ton	3,314,920	19,355,658	3,213,600	19,121,900
Soapstone and talc * ..	ton	41,636	523,181	48,095	710,418
Sodium sulphate	ton	214,208	3,449,155	249,694	4,024,558
Sulphur in smelter gas	ton	289,620	2,854,623	311,211	3,028,776
Sulphur, elemental	ton	274,359	4,298,906	396,286	6,305,183
Titanium dioxide, etc.	ton	...	12,947,000	...	16,287,293
Total non-metallics ...	...	...	197,505,783	...	210,250,683
* Includes pyrophyllite					
<u>Mineral - Fuels</u>					
Coal	ton	11,011,138	74,676,240	10,366,678	69,983,343
Natural gas M. cu. ft.		522,972,327	52,196,882	646,018,204	63,607,157
Nat. gas By-products ..	bbl	...	16,052,210	...	22,530,000
Petroleum, crude	bbl	189,534,221	422,926,497	220,460,562	487,304,660
Total fuels .....	...	...	565,851,829	...	643,425,160
<u>Structural Materials</u>					
Clay products (brick, tile, etc.) .....	...	...	38,226,538	...	38,045,405
Cement	ton	5,787,225	93,261,473	6,145,168	100,692,169
Lime	ton	1,529,568	19,301,790	1,385,953	17,275,787
Sand and gravel	ton	192,074,498	111,163,886	178,502,194	106,413,509
Stone	ton	45,359,449	60,640,621	45,315,108	60,666,036
Total structural materials .....	...	...	322,594,308	...	323,092,906
GRAND TOTAL .....	...	...	2,492,509,981	...	2,561,945,258

... Not applicable.