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PRELIMINARY ESTIMATE OF CANADA'S MINERAL PRODUCTION

1963

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Three billion dollars was the estimated value of the mineral production of Canada during the year 1963, according to a compilation prepared by the Dominion Bureau of Statistics, Ottawa. The valuation of \$2,976 million in 1963 was an increase of 4.6 per cent above the \$2,845 million worth of mineral products shipped in 1962. A historical review shows Canada's mineral output exceeding half a million dollars in 1940, breaking the million mark in 1950, and having a value of over \$2 million in 1956.

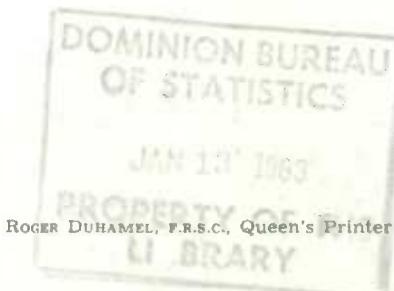
Metals, ores and concentrates were valued at \$1,506 million in 1963 which was only slightly higher than in 1962. The leading metals were nickel, \$363 million, iron ore, \$295 million and copper \$288 million. Although there was a reduction in output of nickel-copper in the Sudbury area, new base metal mines came into production in British Columbia and the maritimes. The total values of gold \$151 million and uranium \$149 million were below those of 1962. Silver, priced at an all-time high average of \$1.38 per troy ounce yielded \$42 million.

Shipments of non-metallic minerals increased 3.6 per cent to reach a value of \$222 million. Over half of this value, or \$135 million was credited to the asbestos mining industry. The salt of the earth was worth \$21.3 million. Nova Scotia mined about 5 million tons of gypsum or 80 per cent of Canada's output. Over a million tons of elemental sulphur were shipped from the plants in Alberta, which process natural gas. Although production of sulphur exceeds the demand, there has been a notable increase in the export sales.

An increase of \$100 million brought the value of mineral fuels to \$882 million. Crude petroleum output of about 260 million barrels was a new high. Natural gas flow exceeded a trillion cubic feet. There was a corresponding increase in the by-products of the natural gas industry. Coal production was comparable to the preceding year.

Structural materials were valued at \$365 million. The demand for brick, tile cement and lime was about the same as in 1962. More stone, sand and gravel was used in highway construction. The total for all uses was 240 million tons.

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ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

Table 1 - VALUE OF MINERAL PRODUCTION OF CANADA, BY CLASSES, 1954-1963

Year	Metallics	Non-metallics	Mineral fuels	Structural materials	TOTAL
(dollars)					
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	1,476,433,950	212,453,009	780,932,387	353,136,833	2,612,926,179
1963	1,505,732,688	222,190,047	882,412,442	365,574,741	2,975,909,918

Table 2 - MINERAL PRODUCTION OF CANADA, BY PROVINCES, 1961/1963

Province	1961		1962		1963	
	\$	Per cent	\$	Per cent	\$	Per cent
Newfoundland	91,618,709	3.6	101,858,960	3.6	121,785,645	4.1
Prince Edward Is ..	606,644	0.1	677,906	0.1	654,120	0.1
Nova Scotia	61,693,156	2.4	61,651,093	2.1	67,307,328	2.3
New Brunswick	18,804,385	0.7	21,811,575	0.8	26,501,143	0.9
Quebec	455,522,932	17.6	516,453,166	18.1	529,388,211	17.8
Ontario	943,669,456	36.5	913,342,174	32.1	876,583,824	29.4
Manitoba	101,489,787	3.9	158,932,169	5.6	171,032,024	5.7
Saskatchewan	215,977,233	8.4	237,653,502	8.3	257,076,318	8.6
Alberta	473,480,540	18.3	566,502,703	19.9	635,001,853	21.3
British Columbia ..	188,542,078	7.3	235,428,135	8.3	260,715,547	8.8
Yukon	12,750,304	0.5	13,137,730	0.5	14,626,150	0.5
Northwest Territories ..	18,145,162	0.7	17,537,066	0.6	15,237,755	0.5
Total.....	2,582,300,387	100.0	2,844,986,179	100.0	2,975,909,918	100.0

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1962 and 1963

	Unit of measure	1962 Quantity	Value \$	1963 Quantity	Value \$
<u>Metallics</u>					
Antimony	lb.	1,931,397	748,223	1,525,830	595,074
Bismuth	lb.	425,102	839,912	380,289	747,458
Cadmium	lb.	2,604,973	4,730,957	2,431,171	5,834,809
Calcium	lb.	123,511	124,412	79,429	97,698
Cobalt	lb.	3,481,922	6,345,205	2,815,184	5,324,032
Columbium (Cb2C5)	lb.	1,016,514	1,006,349	1,270,000	1,260,000
Copper	lb.	914,770,211	282,732,696	917,470,086	287,704,456
Gold	troy oz.	4,178,396	156,313,794	4,011,003	151,375,632
Indium	troy oz.	..	..	..	..
Iron ore	ton	27,359,676	263,004,217	30,634,598	295,360,801
Iron, remelt	ton	...	9,845,669	...	8,736,936
Lead	lb.	430,658,673	42,721,341	411,797,459	45,297,722
Magnesium	lb.	17,631,310	4,821,823	17,390,900	5,391,179
Molybdenum	lb.	817,705	1,261,451	1,000,000	1,534,000
Nickel	lb.	464,483,999	383,784,622	437,298,121	362,781,957
Platinum, group ..	troy oz.	470,787	28,848,637	344,736	21,848,696
Selenium	lb.	487,066	2,800,630	482,960	2,240,101
Silver	troy oz.	30,422,972	35,442,761	30,739,429	42,543,371
Tantalum (Ta2O5)	lb.	..	..	..	..
Tellurium	lb.	58,725	352,350	74,942	483,271
Thorium	lb.	..	..	..	..
Tin	lb.	650,941	442,640	1,062,073	743,450
Titanium ore	ton	-	-	-	-
Tungsten (WO3)	lb.	3,580	1,611	..	..
Uranium (U3O8)	lb.	16,859,169	158,183,669	16,281,957	148,890,731
Zinc	lb.	926,289,098	112,080,981	915,033,762	116,941,314
Total metallics .....		...	1,496,433,950	...	1,505,732,688
<u>Non-metallics</u>					
Arsenious oxide	lb.	160,750	6,832	187,450	7,498
Asbestos	ton	1,215,814	130,281,966	1,272,024	134,880,206
Barite	ton	226,600	2,123,964	177,079	1,753,728
Diatomite	ton	211	10,228	322	12,880
Feldspar	ton	9,994	222,460	8,557	194,954
Fluorspar	ton	...	1,870,184	...	2,004,200
Graphite	ton	-	-	2	1,400
Grindstone	ton	10	2,000	10	2,000
Gypsum	ton	5,332,809	9,349,775	5,931,636	11,101,058
Iron oxides	ton	771	58,363	1,004	73,866
Lithia	lb.	499,736	558,654	663,208	700,800
Magnesitic-dolomite and brucite .....	...	...	3,431,873	...	3,106,092
Mica	lb.	1,204,034	84,598	1,068,650	61,817
Mineral waters	gal.	377,248	207,325	..	..
Nepheline syenite	ton	254,418	2,605,421	255,409	2,508,356

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1962 and 1963 (Concluded)

Unit of measure	1962		1963	
	Quantity	Value	Quantity	Value
<u>Non-metallics</u> (Concluded)				
Peat moss	ton	238,035	7,480,396	258,857
Potash, (K2O).....	ton	..	..	..
Pozzolana	ton	..	4,927	..
Pyrite, pyrrhotite	ton	517,308	1,879,584	492,073
Quartz	ton	2,035,620	3,817,445	1,942,355
Salt	ton	3,638,778	21,927,135	3,233,985
Soapstone and talc * ..	ton	46,161	625,208	54,641
Sodium sulphate	ton	246,672	3,954,273	254,078
Sulphur in smelter gas ..	ton	292,728	3,089,537	311,156
Sulphur, elemental	ton	695,098	9,286,999	1,161,661
Titanium dioxide, etc ..	ton	..	11,573,862	..
Total non-metallics .. ...		...	214,453,009	...
				222,190,047
* Includes pyrophyllite				
<u>Mineral - Fuels</u>				
Coal	ton	10,284,769	69,160,213	10,509,005
Natural gas	M. cu. ft.	946,702,727	108,641,159	1,070,900,800
Nat. gas By-products ..	bbl.	..	50,778,506	..
Petroleum, crude	bbl.	244,115,152	552,352,509	259,613,000
Total fuels .. ...		...	780,932,387	...
				882,412,442
<u>Structural Materials</u>				
Clay products (brick, tile, etc.) .....	...	37,816,878	..	37,758,646
Cement	ton	6,873,729	113,233,726	6,988,412
Lime	ton	1,424,459	17,646,588	1,439,583
Sand and gravel	ton	181,245,762	118,603,283	185,498,913
Stone	ton	47,553,485	65,866,358	55,090,659
Total structural materials .. ...		...	353,166,833	...
				365,574,741
GRAND TOTAL .. ...		...	2,844,986,179	...
				2,975,909,918

.. figures not available

...figures not appropriate or not applicable

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