

CATALOGUE No.

26 - 202

Annual
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DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

DOMINION BUREAU
OF STATISTICS

Price - 25 cents

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CANADA'S MINERAL PRODUCTION
(Preliminary Estimate)
1964

Release date - January 4, 1965

Again the mineral industry in Canada made a new high in 1964 in the total value of shipments which amounted to \$3,455 million. This is shown in an estimate prepared by the Dominion Bureau of Statistics, Ottawa. The value in the preceding year was \$3,050 million. The leading mineral commodities were: crude petroleum \$674 million; iron ore, \$403 million; nickel \$382 million; copper \$328 million; zinc \$193 million; natural gas \$183 million and gold \$161 million.

Metals, ores and concentrates were valued at \$1,762 million. The iron mines in Quebec and Newfoundland have increased their output and additional tonnage can be expected from the new mines under development. Nickel shipments were 233,000 tons and copper tonnage was 495,000. The uranium deliveries tapered off to \$126 million. New mines in Quebec and New Brunswick raised the output of zinc to 682,000 tons. Canada now ranks first in the world zinc ore production.

Non-metallic minerals increased 11 per cent in value to exceed \$287 million. The greatest contributor was the asbestos industry which shipped \$148 million worth of crudes and milled fibres. Quebec produced the major portion of the asbestos, with substantial amounts mined in Newfoundland, Ontario and British Columbia. The potash shipments from the Saskatchewan deposits exceeded \$30 million in value. Salt in the form of rock salt, brine and fine vacuum salt was produced at about the same level as in the preceding years. Over 6 million tons of gypsum were shipped to plaster plants in Canada and United States. Producers of elemental sulphur from sour gas found export markets for this by-product, thereby reducing the huge stockpiles which had accumulated.

Over \$1 billion worth of mineral or fossil fuels were shipped in 1964. As recently as 1950 the entire mineral industry had a total of a billion dollars. In that year the fuels were valued at \$200 million or 20% of the total. The value has been multiplied by five to become one third of the total. Crude petroleum amounted to 274 million barrels, natural gas had an estimated value of \$183 million. Natural gas by-products included condensate, propane, butane, etc.

Structural materials continued upward at a 6 per cent rate. Clay products, including brick, tile flue linings and pottery were worth over \$40 million. Most of the cement plants operated at capacity to supply the demand for nearly 8 million tons. The value, at the quarry or pit of stone, sand and quarry amounted to \$207 million.

6521-922
December 1964

Preliminary Estimate

Table 1 - VALUE OF MINERAL PRODUCTION OF CANADA, BY CLASSES, 1955-1964

Year	Metallics	Non-metallics	Mineral fuels	Structural materials	TOTAL
		(dollars)			
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	1,496,433,950	217,453,009	780,932,387	356,166,833	2,850,986,179
1963	1,509,796,301	253,549,943	908,428,087	379,011,116	3,050,785,447
1964	1,762,904,653	287,235,692	1,005,190,049	400,441,081	3,455,771,475

Table 2 - MINERAL PRODUCTION OF CANADA, BY PROVINCES, 1962-1964

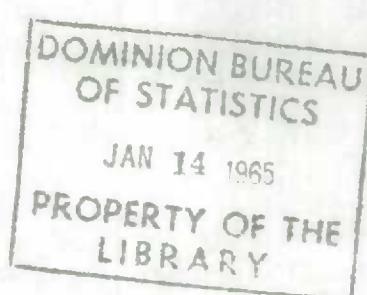
Province	1962		1963		1964	
	\$	Per cent	\$	Per cent	\$	Per cent
Newfoundland	101,858,960	3.6.	137,248,341	4.5.	191,922,042	5.6
Prince Edward Is.	677,906	0.1	798,345	0.1	843,115	0.1
Nova Scotia	61,651,093	2.1	66,317,617	2.2	66,952,434	1.9
New Brunswick	21,811,575	0.8	27,843,419	0.9	49,856,301	1.4
Quebec	519,453,166	18.1	542,671,141	17.8	671,881,571	19.4
Ontario	913,342,174	32.1	873,828,297	28.6	963,798,372	27.9
Manitoba	158,932,169	5.6	169,517,064	5.6	175,022,865	5.1
Saskatchewan	240,653,502	8.3	272,355,007	8.9	285,495,723	8.3
Alberta	566,502,703	19.9	669,311,368	21.9	747,348,396	21.6
British Columbia	235,428,135	8.3	261,146,081	8.5	269,293,797	7.8
Yukon	13,137,730	0.5	14,366,936	0.5	15,928,115	0.4
Northwest Territories .	17,537,066	0.6	15,381,831	0.5	17,428,744	0.5
Total	2,850,986,179	100.0	3,050,785,447	100.0	3,455,771,475	100.0



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Canada's Mineral Production
(Preliminary Estimate)

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ERRATA

Please note the following major corrections:

Table 1

	<u>Metallics</u>	<u>Non-Metallics</u>	<u>Total</u>
Shown as - 1964	\$1,762,904,653	\$287,235,692	\$3,455,771,475
Should read - 1964	\$1,745,558,528	\$286,900,692	\$3,438,090,350

Table 2

	Shown as	Should read
1964	Ontario \$ 963,798,372	\$ 946,098,372
	Manitoba \$ 175,022,865	\$ 175,041,740
	Total \$3,455,771,475	\$3,438,090,350

Table 3

1964	Shown as	Should read
Gold	4,270,238 oz. \$ 161,201,487	3,810,738 oz. \$ 143,855,362
Total Metallics	... \$1,762,904,653	... \$1,745,558,528
Salt	... \$ 23,410,518	... \$ 23,075,518
Total Non-Metallics	... \$ 287,235,692	... \$ 286,900,692
Grand Total	... \$3,455,771,475	... \$3,438,090,350

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1963 and 1964

	Unit of measure	1963 Quantity	Value \$	1964 Quantity	Value \$
<u>Metallics</u>					
Antimony	lb.	1,601,253	624,489	1,718,634	866,200
Bismuth	lb.	359,125	704,103	387,213	839,725
Cadmium	lb.	2,475,485	5,941,164	2,800,761	8,950,213
Calcium	lb.	98,673	117,247	158,875	174,762
Cobalt	lb.	3,024,965	6,122,169	3,196,322	6,484,255
Columbium (Cb205)	lb.	1,393,144	1,300,009	2,250,000	2,305,000
Copper	lb.	905,117,779	284,403,710	989,338,308	328,669,255
Gold	troy oz.	3,970,269	149,877,655	4,270,238	161,201,487
Indium	troy oz.	..	..	..	..
Iron ore	ton	30,143,649	312,140,541	38,664,583	402,892,490
Iron, remelt	ton	..	11,806,597	..	15,954,893
Lead	lb.	402,329,071	44,256,199	400,770,432	53,863,546
Magnesium	lb.	17,810,348	5,357,816	18,041,900	5,592,989
Mercury	lb.	-	-	5,548	22,192
Molybdenum	lb.	833,867	1,344,004	1,278,404	1,789,234
Nickel	lb.	434,059,725	360,592,658	465,749,775	381,996,719
Platinum, group . troy oz.	troy oz.	357,651	22,585,205	374,988	25,196,159
Selenium	lb.	468,772	2,273,545	448,750	2,213,182
Silver	troy oz.	29,919,212	41,408,189	31,111,943	43,556,719
Tantalum (Ta205)	lb.	-	-	-	-
Tellurium	lb.	76,842	499,473	79,789	508,830
Thorium	lb.	..	..	..	..
Tin	lb.	927,062	648,943	356,074	623,128
Titanium ore	ton	-	-	-	-
Tungsten (W03)	lb.	..	..	..	..
Uranium (U3O8)	lb.	16,703,066	136,909,119	13,828,369	125,918,271
Zinc	lb.	947,444,960	121,083,466	1,361,018,999	193,285,404
Total metallics .....		...	1,509,796,301	...	1,762,901,653
<u>Non-metallics</u>					
Arsenious oxide	lb.	187,450	7,498	300,000	12,000
Asbestos	ton	1,275,530	136,956,180	1,377,079	148,370,312
Barite	ton	173,503	1,693,119	172,415	1,692,400
Diatomite	ton	798	26,830	584	20,360
Feldspar	ton	8,608	197,031	8,615	205,420
Fluorspar	ton	..	1,976,006	..	2,291,626
Gem stones	lb.	16,000	15,529	..	15,000
Graphite	ton	-	-	13	6,570
Grindstone	ton	10	2,000	10	2,000
Gypsum	ton	5,955,266	11,237,952	6,373,765	12,397,828
Helium .....	..	..	..	..	..
Iron oxides	ton	978	74,505	914	79,015
Lithia	lb.	644,354	682,029	1,049,783	1,152,000
Magnesitic-dolomite and brucite .....	...	..	3,439,890	..	3,467,029
Mica	lb.	1,183,041	44,284	1,202,800	95,583
Nepheline syenite	ton	254,000	2,699,202	292,042	3,397,106

Preliminary Estimate

Table 3 - MINERAL PRODUCTION OF CANADA, BY KINDS, 1963 and 1964 (Concluded)

Unit of measure	1963		1964	
	Quantity	Value	Quantity	Value
		\$		\$
<u>Non-metallics</u> <u>(Concluded)</u>				
Nitrogen	M. c.f.	..	..	..
Peat Moss	ton	243,346	7,985,921	245,117
Potash, (K ₂ O)	ton	626,860	22,500,000	862,440
Pozzolan	ton	...	17,994	...
Pyrite, pyrrhotite ...	ton	476,438	1,643,629	356,349
Quartz	ton	1,888,596	3,859,980	2,130,837
Salt	ton	3,721,994	22,316,565	3,892,636
Soapstone and talc*...	ton	54,250	757,878	57,150
Sodium sulphate	ton	256,914	4,121,114	330,178
Sulphur, in smelter gas	ton	353,243	3,488,181	434,776
Sulphur, elemental ...	ton	1,249,887	13,380,182	1,611,181
Titanium dioxide, etc.	ton	...	14,426,444	...
Total non-metallics	...	...	253,549,943	287,235,692
* Includes pyrophyllite				
<u>Mineral - Fuels</u>				
Coal	ton	10,575,694	71,756,581	11,072,776
Natural gas	M.c.f.	1,117,425,217	150,468,714	1,363,814,214
Nat.gas By-products .	bbl.	...	70,997,795	...
Petroleum,crude	bbl.	257,661,777	615,204,997	274,250,125
Total fuels .....	...	...	908,428,087	1,005,190,049
<u>Structural Materials</u>				
Clay products (brick, tile, etc.) .....	...	...	38,154,294	...
Cement	ton	7,013,662	118,614,929	7,744,516
Lime	ton	1,450,731	18,504,220	1,490,922
Sand and gravel	ton	189,570,503	123,854,254	189,374,681
Stone	ton	62,655,329	79,883,419	63,630,849
Total structural materials .....	...	...	379,011,116	400,441,081
GRAND TOTAL .....	...	...	3,050,785,447	3,455,771,475

.. figures not available

...figures not appropriate or not applicable

- nil or zero