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DOMINION BUREAU OF STATISTICS

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CANADA'S MINERAL PRODUCTION

(Preliminary Estimate)

1970

A new all time high was reached for shipments from Canadian mineral production in 1970. The total value exceeded \$5.7 billion according to an estimate prepared by the Dominion Bureau of Statistics, Ottawa. The values of the leading mineral commodities were: crude petroleum, \$1,127 million; nickel, \$830 million; copper, \$782 million; iron ore, \$589 million; zinc, \$386 million and natural gas, \$351 million.

Shipments of metals and metals in ores and concentrates were valued at \$3,115 million. Copper shipments amounted to almost 674,000 tons while nickel shipments exceeded 308,000 tons, the increase being accounted for largely by settled labour conditions in the nickel-copper mines. All time highs were set by lead and zinc whose shipments amounted to 383,208 tons and 1,211,298 tons respectively. Iron ore shipments, also reflecting settled labour conditions, exceeded 53 million tons. Shipments of uranium were slightly higher in quantity but lower in value. Producers shipments of silver exceeded 44 million ounces, an increase of 1.7 per cent over 1969 although there was a slight decrease in value. Gold output declined further as additional gold mines phased out their operations.

Non-metallic minerals shipped during 1970 were valued at \$498 million, an increase of 10.7 per cent above the preceding year. Shipments of asbestos at 1,654,000 tons increased by 2.7 per cent while the value increased by 10.3 per cent to \$215 million. There was a decrease of 2 per cent in the quantity of potash shipped but the value increased by 67.8 per cent to \$116 million. Shipments of salt increased to 5 million tons valued at \$34 million. While the tonnage of elemental sulphur shipments increased to 3.8 million tons lower market prices accounted for a drop in valuation to \$30.7 million.

Mineral or fossil fuels shipped during the year had a total value of \$1,718 million, an increase of 17.2 per cent over 1969. New markets in Japan were largely responsible for the increase in coal to 16 million tons worth \$80.5 million. Almost 2.3 trillion cubic feet of natural gas accounted for a value of \$350.9 million. Natural gas by-products such as condensate, propane, butane, etc. were worth \$159.6 million. Crude petroleum, chiefly from the wells in western Canada, increased by approximately 11 per cent in both volume and value.

Estimated value of structural materials declined slightly from the preceding year to \$436.8 million. Products made from domestic clay, such as brick, tile, flue linings, sewer pipe and pottery were valued at \$44 million. Cement shipments decreased slightly to 8 million tons valued at \$160.4 million. Sand and gravel used for roads, concrete aggregate, etc. accounted for \$117 million while stone added \$96 million to Canada's mineral output.

Manufacturing and Primary Industries Division

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TABLE 1. Value of Mineral Production of Canada, by Classes, 1961-70

Year	Metals	Non-metals	Fossil fuels	Structural materials	Total
dollars					
1961	1,387,159,036	210,467,786	673,923,596	331,345,763	2,602,896,181
1962	1,496,433,950	217,453,009	770,285,742	356,166,833	2,840,339,534
1963	1,509,536,931	253,452,413	885,175,184	379,011,116	3,027,175,644
1964	1,701,648,538	287,497,000	973,002,955	403,058,324	3,365,206,817
1965	1,907,575,899	327,238,901	1,045,884,710	434,161,904	3,714,861,414
1966	1,984,672,572	363,387,717	1,151,835,601	480,649,622	3,980,545,512
1967	2,285,279,477	406,269,252	1,233,888,114	454,660,361	4,380,097,204
1968	2,492,599,647	446,922,191	1,342,583,528	439,563,425	4,721,668,791
1969	2,378,714,025	450,188,745	1,465,923,630	442,841,663	4,737,668,063
1970	3,115,462,400	498,449,800	1,718,041,000	436,768,000	5,768,721,200

TABLE 2. Mineral Production of Canada, by Provinces, 1968-70

Provinces	1968		1969		1970	
	Dollars	Per cent	Dollars	Per cent	Dollars	Per cent
Newfoundland	309,711,994	6.6	256,935,937	5.4	358,350,100	6.2
Prince Edward Island	976,742	0.0	451,500	0.0	500,000	0.0
Nova Scotia	56,939,905	1.2	58,631,575	1.2	58,557,990	1.0
New Brunswick ...	88,452,486	1.9	94,592,565	2.0	101,192,420	1.8
Quebec	725,077,850	15.4	718,366,119	15.3	798,565,390	13.8
Ontario	1,355,628,670	28.7	1,223,380,337	25.8	1,631,978,500	28.3
Manitoba	209,625,533	4.4	246,340,849	5.2	333,261,820	5.8
Saskatchewan	357,173,719	7.6	344,815,077	7.3	392,507,660	6.8
Alberta	1,091,766,867	23.1	1,205,308,015	25.4	1,393,503,480	24.2
British Columbia	389,313,454	8.2	434,272,656	9.2	495,582,430	8.6
Yukon	21,365,555	0.5	35,402,563	0.7	79,642,350	1.3
N.W. Territories	115,636,016	2.4	119,170,870	2.5	125,079,060	2.2
Totals	4,721,668,791	100.0	4,737,668,063	100.0	5,768,721,200	100.0

TABLE 3. Mineral Production of Canada, by Kinds, 1969 and 1970

		1969		1970	
		Quantity	Value	Quantity	Value
			dollars		dollars
<u>Metallics</u>					
Antimony	lb.	820,122	508,476	716,000	1,131,300
Bismuth	"	579,059	2,530,564	571,000	3,252,600
Cadmium	"	5,213,054	18,349,949	4,246,200	16,058,900
Calcium	"	942,682	953,522	400,000	338,000
Cobalt	"	3,255,623	6,851,046	5,228,900	11,893,000
Columbium (Cb ₂ O ₅)	"	3,414,495	3,172,845	4,919,000	5,303,600
Copper	"	1,146,491,300	588,280,597	1,347,494,680	782,490,300
Gold	troy oz.	2,545,109	95,925,158	2,357,620	86,218,120
Indium .....	"	..	..	..	..
Iron ore	ton	40,054,274	454,075,618	53,209,800	589,126,000
Iron, remelt	"	..	26,643,290	..	29,975,300
Lead	lb.	637,263,478	96,672,869	766,415,400	121,246,900
Magnesium	"	21,274,841	7,263,849	19,167,000	6,478,400
Mercury .....	"	..	..	..	..
Molybdenum	"	29,651,261	53,387,585	35,353,500	62,625,000
Nickel	"	427,223,131	481,055,140	616,080,800	829,643,800
Platinum group ...	troy oz.	310,404	30,881,016	461,200	42,696,500
Selenium	lb.	795,865	4,552,347	604,300	5,160,600
Silver	troy oz.	43,530,941	84,014,909	44,282,680	81,922,980
Tantalum (Ta ₂ O ₅)	lb.	130,298	937,744	315,000	2,200,000
Tellurium	"	72,410	467,769	58,900	356,400
Thorium (ThO ₂)	"	29,014	55,087	-	-
Tin	"	288,427	470,136	281,000	531,100
Tungsten (WO ₃) .....	"	..	..	..	..
Uranium (U ₃ O ₈)	"	7,707,735	53,150,657	8,021,000	50,237,000
Yttrium (Y ₂ O ₃)	"	85,443	671,500	73,000	657,000
Zinc	"	2,415,248,550	367,842,352	2,422,597,200	385,919,600
Total metallics .....		...	2,378,714,025	...	3,115,462,400
<u>Non-metallics</u>					
Arsenious oxide	lb.	339,875	34,000	200,000	20,000
Asbestos	ton	1,611,168	195,211,101	1,654,000	215,270,000
Barite	"	143,230	1,379,752	236,000	2,140,000
Diatomite .....	"	..	..	..	..
Feldspar	"	12,385	301,375	11,000	311,000
Fluorspar	"	..	3,036,931	..	4,185,000
Gem stones	lb.	28,332	44,635	28,000	45,000
Grindstone	ton	-	-	-	-
Gypsum	"	6,373,648	14,995,150	6,442,000	14,956,000
Helium	mcf.	..	..	..	..
Iron oxides	ton	-	-	-	-
Lithia	lb.	-	-	-	-
Magnesitic dolomite, brucite	ton	..	3,209,170	..	3,600,000
Mica	lb.	-	-	-	-
Nepheline syenite	ton	500,571	5,935,239	491,000	6,147,000

See footnotes at end of table.



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Preliminary Estimate

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TABLE 3. Mineral Production of Canada, by Kinds, 1969 and 1970 - Concluded

	1969		1970	
	Quantity	Value	Quantity	Value
		dollars		dollars
<u>Non-metallics - Concluded</u>				
Nitrogen	Mcf.	..	..	..
Peat Moss	ton	330,174	317,000	9,410,000
Potash, (K ₂ O)	"	3,492,001	3,424,000	116,402,000
Pyrite, pyrrhotite	"	376,159	325,700	1,849,000
Quartz	"	2,300,374	2,902,000	8,610,000
Salt	"	4,657,765	5,052,000	34,248,000
Soapstone and talc(1) ...	"	75,850	75,000	1,183,000
Sodium sulphate	"	518,299	478,000	7,611,000
Sulphur, in smelter gas	"	676,189	708,800	7,282,000
Sulphur, elemental	"	2,973,506	3,779,850	30,710,800
Titanium dioxide, etc. ..	"	..	..	34,470,000
Total non-metallics ...	...	450,188,745	...	498,449,800
<u>Mineral fuels</u>				
Coal	ton	10,671,879	16,047,000	80,506,000
Natural gas	Mcf.	1,977,838,205	2,295,278,000	350,953,000
Nat. gas By-products	bbl.	66,724,769	77,595,000	159,583,000
Petroleum, crude	"	410,989,930	455,382,000	1,126,999,000
Total fuels .....	...	1,465,923,630	...	1,718,041,000
<u>Structural materials</u>				
Clay products (brick, tile, etc.) .....	...	51,165,915	...	44,059,000
Cement	ton	8,250,032	8,065,000	160,440,000
Lime	"	1,634,862	1,626,000	19,019,000
Sand and gravel	"	201,581,498	194,100,000	117,400,000
Stone	"	67,477,012	70,700,000	95,850,000
Total structural materials .....	...	442,841,663	...	436,768,000
Grand total .....	...	4,737,668,063	...	5,768,721,200

(1) Includes pyrophyllite.

.. Figures not available.

... Figures not appropriate or not applicable.

- Nil or zero.