

***British Columbia  
Mineral Output  
Statistical Summary  
1980–1993***



Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources  
Land Management and Policy Branch,  
Mineral Statistics Section

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Mineral Output***

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# B.C. MINERAL OUTPUT STATISTICAL SUMMARY 1980 - 1993

This publication is intended to update a series of provincial statistics on British Columbia's mineral industry. Its focus is primarily historical and summarises annual statistics for the years 1980 through 1993. While the most recent annual tables available are based upon the *1992 Annual Census of Mines*, estimates for 1993 have been included in some tables to make these data as timely as possible.

## NOTES ON STATISTICS

Statistics on the British Columbia mineral industry are collected, compiled and tabulated for publication in this report by the Mineral Statistics Section, Land Management and Policy Branch of the Ministry of Energy, Mines and Petroleum Resources. Data are obtained from a direct census of the industry, which is undertaken as a cooperative effort between the Ministry and two federal agencies: Energy, Mines and Resources and Statistics Canada. Production statistics are aggregated into sector and industry totals for public release. Individual producer data on employment and gross mine output at each major mine are, however, also available in this publication.

## NOTES ON METHODOLOGY

Statistics are gathered in accordance with an established methodology which attempts to maintain comparability with previous data. In some cases, annual totals released by this Ministry may vary from comparable data published by federal agencies. This is due to agreed-upon differences in methodology in attributing production to the location of origin, in methods of determining valuation and in the definition of mineral commodities and their use. Peat, classified as a fuel by Statistics Canada, is not included in B.C. summaries, since it is considered neither a fuel nor a mineral. Coal, classified as a fuel by Statistics Canada, is included provincially as part of solid minerals value. Sulphur recovered from smelters and gas plants is included as a mineral product both by B.C. and Statistics Canada.

Values for metals are based upon revenues reported by operators, or estimated by the Ministry in cases where information is not available. All commodity summaries reflect a valuation of output determined to best represent the activity of B.C.'s mineral producers. Statistics are aggregated from information supplied by operators as per their accounting records. While companies can report on a production, sales or shipments basis, all information is summarised and recorded as production for annual statistical purposes. In the case of pre-production or bulk sampling for metal mines, production is recorded when the ore is sold or concentrated and brought into revenue by the operator.

The value of production of industrial minerals and structural materials are approximately the dollar amounts received at the point of origin. Coal is valued at the mine-head for all coal of B.C. origin. Coal production represents preparation plant output of clean coal net of inventory adjustments. Clean coal sold and used is coal of B.C. origin only.

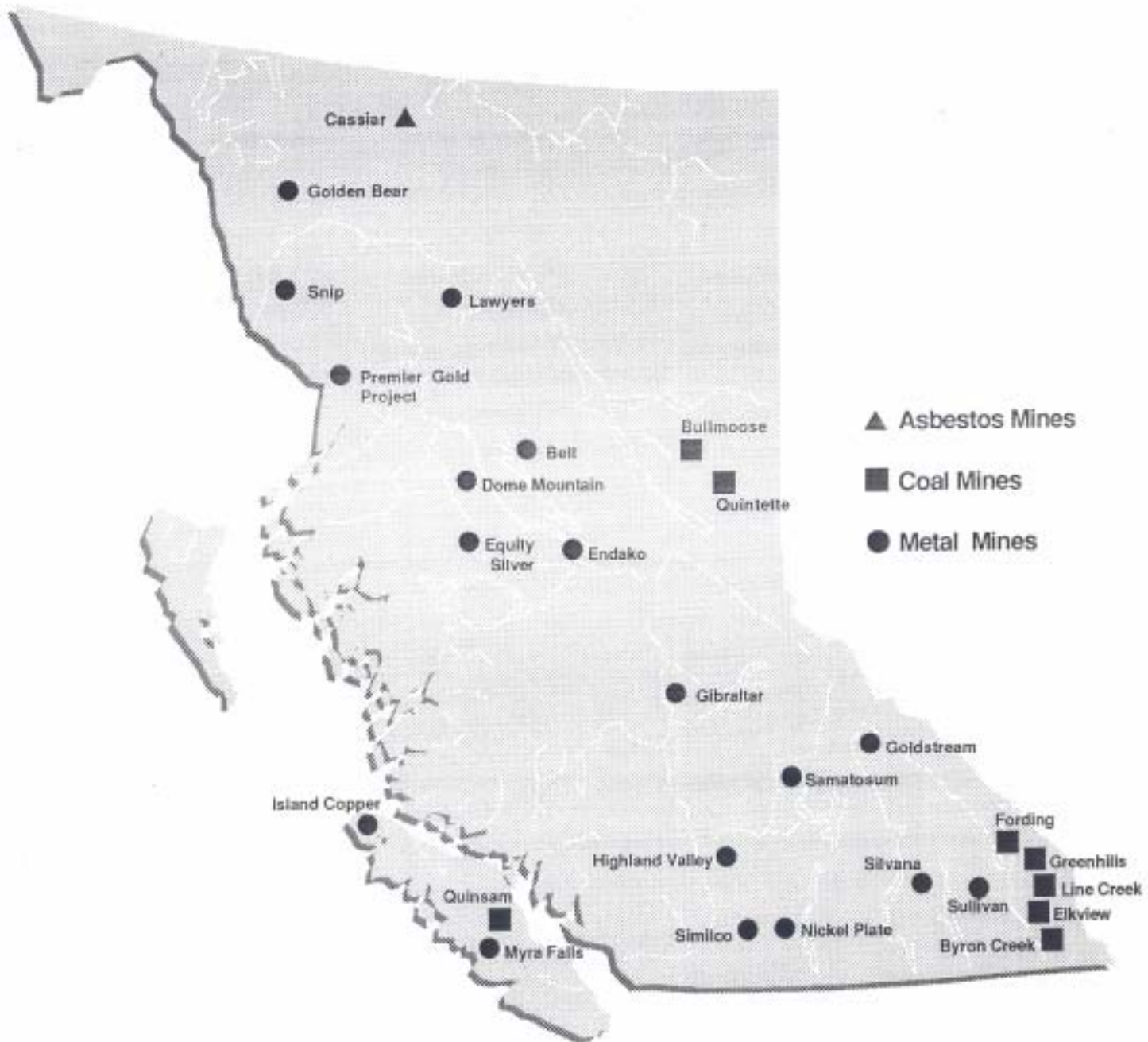
All information is current to the end of 1993. All dollar values are in nominal Canadian funds. Metric weights are used throughout. Metric conversion factors are:

Short tons (st or tons) x 0.90718474 = metric tonnes (t)

Pounds (lb.) x 0.45359237 = kilograms (kg)

Ounces (oz.) x 31.1034768 = grams (g)

# MAJOR OPERATING MINES IN BRITISH COLUMBIA 1992 AND 1993



Mines operating during 1992 or 1993 are shown above.  
Names are as of the year reported

## MAJOR B.C. METAL MINES 1992 and 1993

Mine Name	Location	Operator	Operating Status
Bell	Babine Lake	Noranda Minerals Ltd.	Closed end of June 1992
Dome Mountain	Smithers	Habsburg Resources Ltd.	Opened January 1992; shut down April 1993
Endako	Endako	Placer Dome Inc.	Active
Equity Silver	Houston	Equity Silver Mines Ltd.	Active
Gibraltar	McLeese Lake	Gibraltar Mines Ltd.	Active
Golden Bear	Bearskin Lake	North American Metals Corp.	Active
Goldstream	Revelstoke	Bethlehem Resources Corp.	Active
Highland Valley Copper	Highland Valley	Highland Valley Copper	Active
Island Copper	Rupert Inlet	BHP - Utah Mines Ltd.	Active
Lawyers	Toodoggone	Cheni Gold Mines Inc.	Shut down early August 1992
Myra Falls Operations	Buttle Lake	Westmin Resources Ltd.	Active; locked out April - December 1993
Nickel Plate	Penticton	Homestake Canada Inc.	Active
Premier Gold Project	Stewart	Westmin Resources Ltd.	Active
Silvana	New Denver	Tremingo Resources Ltd.	Shut down early April 1993
Similco	Princeton	Princeton Mining Corp.	Shut down late November 1993
Snip	Bronson Creek	Cominco Ltd.	Active
Sullivan	Kimberley	Cominco Ltd.	Active
Cassiar	Cassiar	Princeton Mining Corp.	Closed end of January 1992

Information is current to end of 1993.



## B.C. COAL MINES 1992 and 1993

Mine Name	Location	Operator	Operating Status
Elkview (ex-Balmer)	Sparwood	Elkview Coal Corp.	Active ; Re-opened May 1993
Byron Creek	Sparwood	Corbin Creek Resources Ltd.	Active
Bullmoose	Tumbler Ridge	Bullmoose Operating Corp.	Active
Fording	Elkford	Fording Coal Ltd.	Active; Re-started December 1992
Greenhills	Elkford	Fording Coal Ltd.	Active; Re-opened March 1993
Line Creek	Sparwood	Line Creek Resources Ltd.	Active
Quinsam	Campbell River	Brinco Coal Corp.	Active
Quintette	Tumbler Ridge	Quintette Operating Corp.	Active

Information is current to end of 1993.

## **HIGHLIGHTS - B.C. METAL AND COAL PRODUCERS 1992 and 1993**

The highlights below are included to add some perspective to changes in production volumes and values in statistical summary tables and to provide a brief chronology of the main events which affected output of metals and coal at B.C. mines in 1992 and 1993.

### **1992 - METAL MINES**

- Timmins Nickel Ltd. began official production at its Dome Mountain gold mine near Smithers in January. During 1992, the mine processed its ore at Placer Dome Inc.'s Equity mill with some ore processed at the Premier mill of Westmin Resources Ltd.
- Noranda Minerals Inc.'s Bell copper mine near Babine Lake depleted its ore reserves and closed in June 1992, after operating continuously since 1985.
- Cheni Gold Mines Inc. ceased operations at its Lawyers gold-silver mine in the Toadoggone area in August, having depleted its economic ore reserves. The company did, however, process some additional high-grade ore from the Phoenix zone in November and December.
- Westmin Resources Ltd. reduced its workforce in June and subsequently ceased open pit operations due to a lack of economic reserves at the Premier Gold Project in August. The mine continued to process stockpiled ore and mine underground for the remainder of the year.
- Placer Dome Inc.'s Equity Silver mine near Houston ceased open pit mining in September and reduced its workforce. Underground mining began in July 1992.
- Minnova Inc.'s Samatosum mine, a producer of silver, lead, zinc, copper and gold, closed in September due to a lack of economic reserves after three years of production. While mining ceased in July, milling operations continued into September. The mine had been the province's second largest producer of silver, accounting for over a quarter of the province's silver output.

### **1992 - COAL MINES**

- Fording Coal Ltd.'s Fording River coal mine was shut down as a result of a labour dispute in May. Operations did not resume until late in December after successful resolution of labour contract issues. Four months of production and some additional sales from port during the shut down are reported in the tables for 1992.

- Westar Mining Ltd., operator of both the Greenhills and Balmer coal mines in southeast B.C., was forced into bankruptcy in August. The Balmer mine had been closed since May by a lockout, while the Greenhills mine remained in production through until the end of October. Late in the year, the Balmer mine was taken over by the Teck Corporation, and the Greenhills mine was purchased by Fording Coal Ltd.

### 1993 - METAL MINES

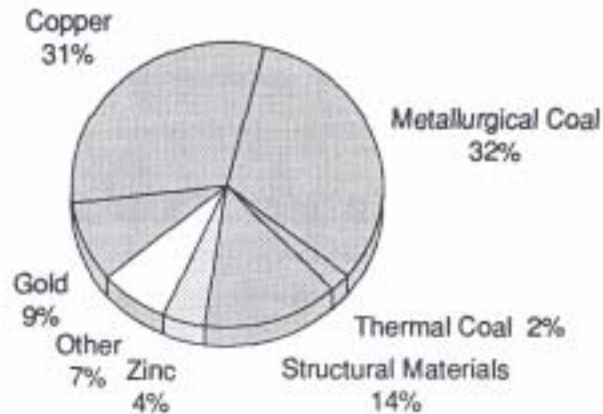
- Fairfield Minerals Ltd. received revenues from a 1992 bulk sampling program at its Elk property (Siwash North vein) near Merritt in 1993. Over 270 000 grams of gold were recovered from 1 840 tonnes of custom-milled concentrate. The company plans to recover a further 780 000 grams in 1994 from the property.
- Candorado Mines Ltd. operated its gold heap leaching operation near Hedley for two months in 1993, recovering 90 000 grams of gold from tailings.
- Cominco Ltd. shut down their Trail smelter in April and during August citing a glut of zinc on world markets.
- Treminco Resources Ltd. shut down the Silvana mine near New Denver at the beginning of April citing low lead, zinc and silver prices and a depletion of ore reserves.
- Employees at Westmin Resources Ltd.'s Myra Falls Operations at Buttle Lake near Campbell River were locked out over a contract dispute on April 24. Management personnel resumed limited mining operations at the end of October, milling a few days a month at about 15 per cent of the normal rate .
- The Dome Mountain gold mine shut down in April to comply with safety regulations and due to continuing legal negotiations between joint venture partners Habsburg Resources Ltd. and Timmins Nickel Inc. An agreement was reached in August with Habsburg gaining an 80 per cent interest in the mine as the new operator. The company intends to develop a new mine plan to re-start operations.
- Bethlehem Resources Corp. suspended mining for the month of May at its Goldstream copper mine near Revelstoke in order to revise mining plans to reduce costs in light of lower copper prices. Milling from stockpiled ore continued during the month.

- Bethlehem Resources Corp., in a joint venture with Columbia Gold Mines Ltd., processed ore on a custom milling basis for the Tillicum project (Heino-Money zone) near Nakusp. The company estimated 5 400 tonnes of ore would be milled, with gold recovered blended into Goldstream's concentrate.
- Cominco Ltd.'s Sullivan lead/zinc mine at Kimberley was shut down for summer maintenance for eleven weeks from June through mid-August.
- North American Metals Corp. recommenced underground mining at the Golden Bear gold mine near Telegraph Creek in northwest B.C. in July. The underground operation had been suspended since February, while milling continued from stockpiled ore.
- Gibraltar Mines Ltd. ceased operations at its copper-molybdenum mine near McLeese Lake in August to allow for a development program on the Gibraltar East pit and for general mine maintenance. The molybdenum circuit closed in December of 1992 and did not operate in 1993. Gibraltar later made a decision to shut down mining and milling operations at the beginning of December due to low copper prices, but continued operation of its solvent extraction electrowinning plant which produces copper cathode. Gibraltar also announced it is planning a major expansion to raise copper production by almost 50 per cent by 1996. The plan would increase mill capacity to 51 700 tonnes per day from the present capacity of 34 500 tonnes per day and lower cash costs by an estimated 7 to 8 U.S. cents per pound of copper.
- International Skyline Gold Corp. reopened the Johnny Mountain gold mine north of Stewart at the beginning of August on a limited production basis. Mining ceased for the season in November, while the mill operated from early September through most of November.
- Princeton Mining Corporation's Similco copper mine near Princeton originally gave notice the mine would close in September, but delayed the closure until the end of November. The company gave as reasons the recent drop in copper prices and the uncertainty of future prices.

## 1993 - COAL MINES

- Fording Coal Ltd.'s Greenhills coal operation re-started production in May. Fording, which took over as operator from Westar Mining Ltd., developed a new mine plan based on larger scale equipment. The mine produced 2.7 million tonnes of clean coal in 1992 and 1.8 million tonnes in 1993.
- Teck Corporation's Elkview mine re-commenced mining in May while the plant began processing coal 4 days a week in late May. The first shipment to Roberts Bank was at the beginning of June. The company has regained markets for metallurgical coal in Japan and is continuing to seek new markets. Elkview produced 1.9 million tonnes of clean coal in 1992 and 1.7 million tonnes in 1993.
- Fording Coal Ltd.'s Fording River mine operated continuously throughout 1993, producing nearly 6.7 million tonnes of clean coal. Output in 1992 was substantially lower - only 2.5 million tonnes - due to an eight month labour dispute from May through December of that year.

**B.C. MINERAL COMMODITIES IN 1993  
PER CENT OF ALL SOLID MINERALS BY VALUE**



	Million \$	% of Total
<b>Metals</b>		
Gold	211.68	9.27%
Silver	30.28	1.33%
Copper	700.96	30.71%
Lead	22.42	0.98%
Zinc	101.82	4.46%
Molybdenum	58.00	2.54%
Others	5.39	0.24%
<b>Total Metals</b>	<b>1 130.56</b>	<b>49.53%</b>
<b>Coal</b>		
Metallurgical	730.60	32.01%
Thermal	52.58	2.30%
<b>Total Coal</b>	<b>783.18</b>	<b>34.31%</b>
<b>Structural Materials</b>		
Cement	133.42	5.85%
Clay products	8.31	0.36%
Sand and gravel	127.13	5.57%
Stone	32.13	1.41%
Others	19.37	0.85%
<b>Total</b>	<b>320.36</b>	<b>14.04%</b>
<b>Industrial Minerals</b>		
Sulphur	36.43	1.60%
Others	11.87	0.52%
<b>Total</b>	<b>48.29</b>	<b>2.12%</b>
<b>Total Solid Minerals</b>	<b>2 282.39</b>	<b>100.00%</b>

## B.C. MINERAL PRODUCTION 1992 - 1993

	Units	1992		1993 (E)	
		Quantity	Value \$	Quantity	Value \$
<b>Metals</b>					
Gold	g	16 410 000	219 136 000	14 178 000	211 682 000
Silver	g	338 817 000	53 316 000	170 133 000	30 284 000
Copper	kg	315 831 000	892 075 000	284 943 000	700 960 000
Lead	kg	64 505 000	42 108 000	43 117 000	22 421 000
Zinc	kg	111 202 000	171 020 000	80 586 000	101 824 000
Molybdenum	kg	8 776 000	54 891 000	10 013 000	58 004 000
Others		-	4 980 000	-	5 385 000
<b>Total Metals</b>		-	<b>1 437 526 000</b>	-	<b>1 130 560 000</b>
<b>Coal</b>					
Metallurgical	t	15 618 000	672 953 000	17 008 000	730 598 000
Thermal	t	2 386 000	73 661 000	2 256 000	52 578 000
<b>Total Coal</b>		<b>18 004 000</b>	<b>746 614 000</b>	<b>19 264 000</b>	<b>783 176 000</b>
<b>Structural Materials</b>					
Cement	t	1 336 000	119 313 000	1 461 000	133 418 000
Clay products		-	7 958 000	-	8 306 000
Sand and gravel	t	39 923 000	128 624 000	39 431 000	127 134 000
Stone	t	3 910 000	30 113 000	4 247 000	32 134 000
Others		-	19 233 000	-	19 368 000
<b>Total</b>		-	<b>305 241 000</b>	-	<b>320 360 000</b>
<b>Industrial Minerals</b>					
Asbestos	t	6 000	2 939 000	-	-
Sulphur	t	601 000	29 640 000	724 000	36 428 000
Others		-	12 265 000	-	11 865 000
<b>Total</b>		-	<b>44 844 000</b>	-	<b>48 293 000</b>
<b>Total Solid Minerals</b>		-	<b>2 534 225 000</b>	-	<b>2 282 389 000</b>

(E)=Estimate

## VALUE OF B.C. SOLID MINERALS 1980 - 1993

Year	Metals \$	Industrial Minerals \$	Structural Materials \$	Coal \$	Total \$
1980	1 429 002 180	115 926 007	242 325 657	461 492 857	2 248 746 701
1981	1 246 682 535	122 464 842	200 786 479	554 271 292	2 124 205 148
1982	1 057 488 380	95 644 218	164 156 644	566 878 240	1 884 167 482
1983	1 106 015 862	89 496 434	208 401 528	555 789 196	1 959 703 020
1984	1 036 900 793	114 669 521	192 253 455	1 007 519 670	2 351 343 439
1985	1 005 450 954	111 016 020	232 824 792	1 028 317 201	2 377 608 967
1986	1 156 666 691	134 394 026	214 663 686	934 414 249	2 440 138 652
1987	1 491 593 601	125 228 798	258 546 377	892 521 959	2 767 890 735
1988	1 875 773 744	111 462 265	258 156 703	978 811 603	3 224 204 315
1989	1 757 415 706	124 754 302	296 750 034	1 000 597 678	3 179 517 720
1990	1 558 862 279	119 446 089	312 747 438	979 857 019	2 970 912 825
1991	1 418 766 000	86 378 000	311 823 000	937 836 000	2 754 803 000
1992	1 437 526 000	44 844 000	305 241 000	746 614 000	2 534 225 000
1993(E)	1 130 560 000	48 293 000	320 360 000	783 176 000	2 282 389 000

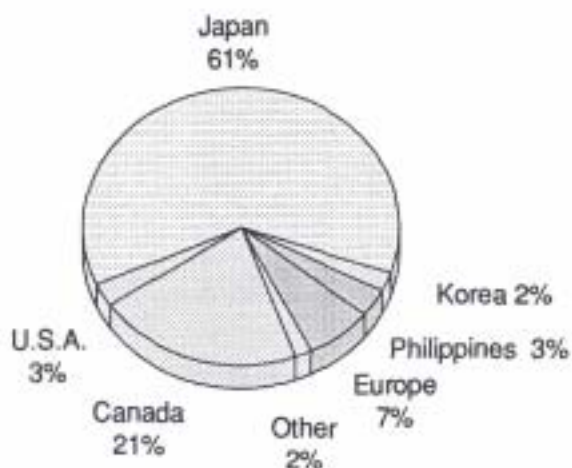
(E) = Estimate



# OPERATING STATISTICS - MAJOR B.C. METAL MINES 1992

Metal Mines	Tonnes Mined	Tonnes Milled	Reported Rated Capacity Tonnes Per Day	Days Operating U/G Mine	Days Operating O/P Mine	Days Operating Mill
Bell	931 192	1 099 336	14 500	-	77	84
Endako	9 680 000	9 702 000	27 500	363	-	360
Equity Silver	1 473 000	2 607 500	9 000	180	270	345
Gibraltar	13 256 434	12 672 025	36 000	-	365	365
Golden Bear	168 129	132 961	376	94	273	365
Goldstream	431 151	431 151	1 200	365	-	356
Highland Valley Copper	44 016 882	44 064 369	133 000	-	365	365
Island Copper	21 554 000	19 614 169	50 000	-	359	364
Lawyers	30 838	108 853	500	-	10	212
Myra Falls Operations	1 156 489	1 171 629	4 000	363	-	363
Nickel Plate	1 559 010	1 234 051	3 000	-	365	365
Premier Gold Project	358 608	391 073	2 000	365	185	310
Samatsum	71 950	129 374	422	162	91	274
Silvana	16 500	16 500	115	241	-	228
Similco	6 124 132	7 377 408	22 700	-	363	365
Snip	156 559	164 700	500	365	-	366
Sullivan	1 760 788	1 760 788	7 300	234	-	239
<b>Total Metal Mines</b>	<b>102 745 662</b>	<b>102 677 887</b>	<b>312 113</b>	<b>2 732</b>	<b>2 723</b>	<b>5 326</b>
<b>Average Metal Mines</b>	<b>6 043 862</b>	<b>6 039 876</b>	<b>18 360</b>	<b>161</b>	<b>160</b>	<b>313</b>

## MARKETS FOR MAJOR B.C. METALS 1992



	Million \$	% of Total
<b>CANADA*</b>	301.65	21.06%
<b>U.S.A.</b>	37.89	2.65%
<b>ASIA</b>	973.85	67.98%
Includes:		
Japan	878.93	61.35%
Korea	31.92	2.23%
Philippines	46.65	3.26%
China	16.35	1.14%
<b>EUROPE</b>	95.74	6.68%
Includes:		
Belgium	7.93	0.55%
Germany	0.13	0.01%
Spain	68.12	4.76%
Sweden	5.80	0.40%
Other	13.75	0.96%
<b>OTHER</b>	23.41	1.63%
Includes:		
Australia	0.23	0.02%
Chile	1.54	0.11%
Mexico	19.13	1.34%
Other	4.77	0.33%
Adjustments	-2.26	-0.16%
<b>TOTAL</b>	1 432.54	100.00%

\* Includes placer and gold recovered from custom ores.

## DESTINATION OF MAJOR METALS IN B.C. ORES AND CONCENTRATES 1992

(By Volume)

	Gold Grams	Silver Grams	Copper Kilograms	Lead Kilograms	Zinc Kilograms	Molybdenum Kilograms
<b>CANADA*</b>	6 916 000	58 943 000	6 380 000	63 985 000	85 175 000	1 966 000
<b>U.S.A.</b>	1 412 000	38 384 000	4 145 000	520 000	-	175 000
<b>ASIA</b>	8 350 000	230 664 000	266 453 000	-	26 027 000	4 060 000
Includes:						
Japan	8 282 000	220 631 000	235 046 000	-	23 988 000	4 060 000
Korea	28 000	3 374 000	9 924 000	-	2 039 000	-
Philippines	40 000	5 785 000	16 176 000	-	-	-
China	-	874 000	5 307 000	-	-	-
<b>EUROPE</b>	28 000	9 610 000	29 647 000	-	-	1 872 000
Includes:						
Belgium	-	-	-	-	-	1 373 000
Germany	18 000	7 558 000	23 862 000	-	-	47 000
Spain	-	715 000	2 033 000	-	-	2 000
Sweden	10 000	1 337 000	3 752 000	-	-	450 000
Other	-	-	-	-	-	-
<b>OTHER</b>	( 296 000)	1 216 000	9 206 000	-	-	703 000
Includes:						
Australia	-	-	-	-	-	14 000
Chile	-	-	-	-	-	369 000
Mexico	2 000	2 115 000	6 715 000	-	-	-
Other	-	-	-	-	-	796 000
Adjustments	( 298 000)	( 899 000)	2 491 000	-	-	( 476 000)
<b>TOTAL</b>	<b>16 410 000</b>	<b>338 817 000</b>	<b>315 831 000</b>	<b>64 505 000</b>	<b>111 202 000</b>	<b>8 776 000</b>

\* Includes placer and gold recovered from custom ores.

## DESTINATION OF MAJOR METALS IN B.C. ORES AND CONCENTRATES 1992

(By Value)

	Gold \$	Silver \$	Copper \$	Lead \$	Zinc \$	Molybdenum \$
<b>CANADA*</b>	91 823 000	8 663 000	18 032 000	41 745 000	128 538 000	12 851 000
<b>U.S.A.</b>	18 591 000	5 832 000	10 673 000	363 000	-	2 433 000
<b>ASIA</b>	<b>112 319 000</b>	<b>37 234 000</b>	<b>757 085 000</b>	-	<b>42 482 000</b>	<b>24 732 000</b>
Includes:						
Japan	111 337 000	35 728 000	668 102 000	-	39 027 000	24 732 000
Korea	452 000	512 000	27 505 000	-	3 455 000	-
Philippines	530 000	861 000	45 257 000	-	-	-
China	-	133 000	16 221 000	-	-	-
<b>EUROPE</b>	<b>362 000</b>	<b>1 428 000</b>	<b>82 946 000</b>	-	-	<b>11 001 000</b>
Includes:						
Belgium	-	-	-	-	-	7 934 000
Germany	-	-	-	-	-	133 000
Spain	233 000	1 125 000	66 760 000	-	-	-
Sweden	-	106 000	5 688 000	-	-	5 000
Other	129 000	197 000	10 498 000	-	-	2 929 000
<b>OTHER</b>	<b>(3 959 000)</b>	<b>159 000</b>	<b>23 339 000</b>	-	-	<b>3 874 000</b>
Includes:						
Australia	-	-	-	-	-	234 000
Chile	-	-	-	-	-	1 536 000
Mexico	31 000	313 000	18 788 000	-	-	-
Other	-	-	-	-	-	4 774 000
Adjustments	(3 990 000)	( 154 000)	4 551 000	-	-	(2 670 000)
<b>TOTAL</b>	<b>219 136 000</b>	<b>53 316 000</b>	<b>892 075 000</b>	<b>42 108 000</b>	<b>171 020 000</b>	<b>54 891 000</b>

\* Includes placer and gold recovered from custom ores.



































