PART A

ANNUAL REPORT

OF THE

MINISTER OF MINES

OF THE PROVINCE OF

BRITISH COLUMBIA

FOR THE

YEAR ENDED 31ST DECEMBER

1938

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1939.

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BRITISH COLUMBIA DEPARTMENT OF MINES.

VICTORIA, B.C.

Hon. W. J. ASSELSTINE, *Minister.*

JOHN F. WALKER, *Deputy Minister.*

JAMES DICKSON, *Chief Inspector of Mines.*

D. E. WHITTAKER, *Chief Analyst and Assayer.*

P. B. FREELAND, *Chief Mining Engineer.*

R. J. STEENSON, *Chief Gold Commissioner.*

To His Honour ERIC WERGE HAMBER,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The Annual Report of the Mining Industry of the Province for the year 1938 is herewith respectfully submitted.

W. J. ASSELSTINE,
Minister of Mines.

Minister of Mines' Office,
June, 1939.

Mineral Display at the British Columbia Exhibit, World's Fair, San Francisco, 1939.

CORRIGENDUM.

Page A 5, line 1 of first paragraph, for " $1,990,351 " read " $9,990,351."

PART A.

THE MINING INDUSTRY.

BY

JOHN F. WALKER.

The value of mine production in 1938 was $64,485,551, a decrease of $1,990,351 from 1937. The decrease is due largely to the return to normal of base-metal prices. This is shown clearly in the case of lead and zinc, where the volume changes are slight but the decrease in value amounts to about 35 per cent. All phases of the industry, except clay products, showed decreases.

Lead production of 412,979,182 lb., though only slightly below the 1937 volume record, decreased in value from the all-time value record of $21,416,949 to $13,810,024.

Zinc production again established a record for volume with a production of 298,497,295 lb., but the value decreased from $14,274,245 to $9,172,825.

Coal, valued at $5,565,069, shows a decrease of 9.4 per cent. from the 1937 value.

Copper production increased in volume by 42.8 per cent. to 65,769,906 lb., but, due to lower prices, the value increased only 8.9 per cent. to $6,558,575. Production of this metal has made a very healthy recovery and is now about normal.

Silver production at 10,861,578 oz. is 4 per cent. below the record volume production of 1937, and the value of $4,722,288 is 6.8 per cent. less.

Non-metallic minerals and structural materials, taken in groups, show two losses to one gain, with individual items showing substantial gains or losses. There has been a steady improvement in these groups during the past few years, but 1938 shows the first set-back. Individual items indicate an increase in ordinary building activity and a decrease in heavier construction.

The total number of shipping-mines increased from 185 to 211, those shipping 100 tons decreased from 113 to 92.

The number of men employed decreased slightly from 16,129, last year's record, to 16,021; but wages and salaries increased from $21,349,690 to $22,791,685, the greatest amount ever paid out in any year.

Dividends decreased from the all-time record in 1937 of $15,085,293 to $11,992,316. These figures do not include dividends paid by the Howe Sound Mining Company, parent company of the Britannia Mining and Smelting Company, and the latter figure does not include dividends paid by Premier Gold Mining Company, Limited.

GENERAL SITUATION.

At the first of the year it appeared that volume and value production for 1938 would show some variation in individual items from that of 1937, but that the gross value would be about the same.

At the time of writing the situation does not appear to be quite so bright, as base-metal prices, particularly lead and zinc, have shown no tendency to improve and are averaging considerably below 1938 prices. Any appreciation that may take place before the end of the year can hardly be expected to raise prices for lead and zinc to the levels of last year.

It is anticipated lode gold may show a slight increase in volume. Increased production, particularly from Vancouver Island, is being offset to a large extent by decreased production from the Kootenays.

Placer gold should show a slight increase in value and it is anticipated that considerable testing and development of placer properties will be undertaken during the year.

Indications to date are that silver production will be substantially below that of last year, and while it is impossible to predict what may happen to the price for the metal, it is apparent that if the price holds the value production will be materially less.

Copper production should show a slight gain in volume but, unless the price of the metal recovers from its recent break, no increase in value is anticipated.

Lead production is expected to show a substantial decrease in volume and, unless the price of the metal improves to a greater extent than can be anticipated, there will be another appreciable decrease in the value production of this metal.

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Zinc production is likely to show an appreciable decrease in volume and, like lead, a substantial decrease in value.

The value of coal production is expected to be about the same as in 1938.

Structural materials will likely have about the same value as last year.

In preparing the foregoing estimate, it is assumed that no major disaster will affect the mining industry or any of the larger producers. If the industry functions smoothly throughout the year, it is anticipated that while the value of mine production may be about $5,000,000 less than in 1938, the industry, in so far as employment and supplies are concerned, will have had a very good year.

GOLD PURCHASING.

Late in 1935 the Department of Finance, co-operating with the Department of Mines, undertook to purchase small lots of placer gold under 2 oz. in weight from the individual placer-miner. The Gold Commissioners throughout the Province have paid a cash price of $28 per ounce for clean gold, and have purchased dirty gold and amalgam on a deferred-payment basis. Purchases of gold have increased from 1,470 lots in 1936, valued at some $50,000, to 2,397 lots in 1938, valued at approximately $72,000. The total price paid has been almost exactly the same as that received from the Royal Canadian Mint, except for the Mint's handling charge of 1 per cent. This purchasing scheme has returned to the individual miners from $10,000 to $15,000 per annum more than if they had sold through the ordinary channels.

LECTURES TO PROSPECTORS.

A series of fourteen lectures prepared by the Deputy Minister of Mines in 1934 was again given during the winter of 1938–39 by the departmental Mining Engineers and others in different centres throughout the Province, as follows: Abbotsford, Kitchener, Nanaimo, Vancouver, Victoria, and Yahk.

The total estimated average attendance at the lectures was 264. This work was carried out in conjunction with the Department of Education. The brochure entitled "Elementary Geology applied to Prospecting" was used as a basis for these lectures and copies may be obtained from the Department of Mines at the nominal charge of 35 cents. A total of 822 of these books were distributed in 1938.

Prospectors' sets of about fifty rocks and minerals commonly found in British Columbia have been in great demand and 204 sets were distributed throughout the Province at a cost of 50 cents per set to the recipient. Requests for these sets have been received from many parts of Canada and the United States, but up to the present only those resident in British Columbia have been supplied.

DOMINION-PROVINCIAL MINE TRAINING CAMPS.

The Dominion and Provincial Departments of Labour carried on the plan created in former years, whereby young unemployed men between the ages of 20 and 25 years were given an opportunity to learn the general rudiments of mining and prospecting. Instruction was carried out under the direction of the Chief Mining Engineer.

This plan was a departure from the one followed in former years, which embraced placer-mining only, inasmuch that between fifty and sixty trainees, out of 125 instructed, who passed their examinations on subjects taught them at Emory Creek, were sent to Quesnel Forks in the Cariboo district for a further three months' training under practical instructors. The Quesnel Forks area had already been reported upon and mapped by the Geological Survey of Canada, so the trainees could familiarize themselves with the different types of rocks, etc., and learn how to explore a mineral deposit. In addition some placer-mining was done and recoveries made.

During the winter the metal-mine operators kindly co-operated with the Departments and gave jobs to about thirty trained young men. About fifteen more were able to obtain positions throughout the Province as a result of this training.

SAMPLING PLANT, PRINCE RUPERT.

In 1937 a sampling plant was built on the waterfront at Prince Rupert and put into operation on August 20th. The object in erecting a sampling plant at this point was chiefly for the purpose of stimulating prospecting and the development of properties along the Prince

Rupert branch of the Canadian National Railway. The sampling plant was erected on the Coast so that full advantage could be taken of special freight rates arranged especially for shipments of ore to the plant.

The sampling plant is, as its name implies, only a sampling plant and not a concentrator. Ores containing sufficient value to ship direct to the smelter are purchased and assembled at the plant until sufficient tonnage is accumulated to warrant shipment to the smelter. By mixing lots at the plant it is possible also to reduce smelter penalties on individual shipments and so give the prospector the benefit of a mixed lot.

The plant may also be used by those developing properties for the purpose of bulk-sampling.

For the calendar year 1938, 161 lots, comprising 24 tonnage lots for shipment, 90 lots for bulk test-sampling, and 47 lots for assay were received at the plant. These lots aggregated 104 tons and, including shipments to the plant late in 1937, 148 tons were shipped to the smelter, for which $7,536,75 was received as against $7,685.24 paid out by the plant.

This plant is serving its purpose and is stimulating prospecting and development of small properties to a greater extent than for many years. A full report on the sampling plant is contained in Part B.

GEOLOGICAL SURVEY OF CANADA.

By an arrangement made at the time the Province of British Columbia entered Confederation, all geological investigations and mapping in the Province were to be carried on by the Geological Survey of Canada; this agreement has been fully adhered to by the Dominion of Canada and has proved of great benefit to the mining industry of the Province. Each year several geological parties are kept in the field and in the aggregate a vast amount of information is made available to the prospector and the mining engineer in the many excellent reports and maps covering British Columbia which have been issued by the Geological Survey of Canada.

For some years a branch office of the Geological Survey has been maintained in Vancouver, where copies of maps and reports on British Columbia can be obtained. The officer in charge of the British Columbia office is W. E. Cockfield, and the address is 305 Federal Building, Vancouver, B.C.

In 1936 a reorganization of several departments in the Federal Government was effected, and the Department of Mines and Resources created. One of the main branches of this Department is that of Mines and Geology, with sub-branches known as the Bureau of Geology and Topography and the Bureau of Mines. The Geological Survey of Canada and the Topographical Survey are now a part of the Bureau of Geology and Topography. During the season of 1937 the Bureau of Geology and Topography had the following officers employed on field-work in British Columbia:—

Geological Parties.

1. J. E. Armstrong and J. G. Gray commenced the study and mapping of the geology of Hazelton map-area, west half (latitude 55° to 56°, longitude 127° to 128°).

2. E. D. Kindle examined mineral properties tributary to the Canadian National Railways in the vicinity of Hazelton.

3. A. H. Lang commenced the study and mapping of the geology of Smithers map-area, east half (latitude 54° to 55°, longitude 126° to 127°).

4. C. H. Crickmay studied and mapped the geology of Quesnel Lake map-area, west half (latitude 52° 30′ to 52° 45′, longitude 121° 15′ to 121° 30′).

5. H. M. A. Rice completed the study and mapping of the geology of Nelson map-area, east half (latitude 49° to 50°, longitude 116° to 117°).

6. W. E. Snow continued the study and mapping of the geology of Hope map-area, west half (latitude 49° to 50°, longitude 121° to 122°).

7. M. F. Bancroft studied the geology and mineral deposits of Zeballos area, Vancouver Island.

8. F. H. McLearn completed stratigraphical and faunal studies in Peace River district.

Topographical Parties.

C. H. Smith and R. J. Parlee continued the mapping of the Tatlatui sheet (94 D) (latitudes 56° to 57°, longitudes 126° to 128°).

H. A. S. West mapped the east half of the Nelson sheet (82 F/6) (latitudes 49° 15′ to 49° 30′, longitudes 117° 00′ to 117° 15′).

METHOD OF COMPUTING PRODUCTION.

The total mine output of the Province consists of the outputs of metalliferous minerals, coal, structural materials, and miscellaneous metals, minerals, and materials, valued at standard recognized prices in Canadian funds.

In the Annual Report for 1925 some changes were made in the methods used in previous years in computing and valuing the products of the industry, but in order to facilitate comparisons with former years the same general style of tables was adhered to. The methods used in the 1925 Annual Report have been followed in subsequent Annual Reports, with the addition of new tables.

The following notes explain the methods used:—

(1.) From the certified returns of lode mines of ore and concentrate shipments made during the full calendar year by the producers the net recovered metal contents have been determined by deducting from the "assay value content" necessary corrections for smelting and refining losses.

In making comparisons of production figures with previous years, it should be remembered that prior to 1925 in the Annual Reports the total metal production, with the exception of copper, was determined by taking the assay value content of all ores shipped; deductions for slag losses were made by taking varying percentages off the metal prices.

(2.) Gold-placer returns are received from operators giving production in crude ounces recovered; these are converted to fine-gold ounces by dividing the crude-ounce value by the old standard price of gold. The fine-gold content is then valued at the yearly average price of gold, which in 1936 was $35.03 per ounce. On this basis the average crude-gold value per ounce was $28.80 on Provincial placer-gold production.

(3.) The prices used in valuing the different metals are: For gold, the average price for the year; for silver, the average New York metal-market price for the year; for lead, the average London metal-market price for the year; and for zinc, the average London metal-market price for the year. As in 1936, copper in 1937 is valued at the average London metal-market price. Prior to 1932 copper was valued at the average New York price. The change was made because very little copper was being marketed in the United States on account of high tariff charges against importations from foreign countries. The bulk of the lead and zinc production of the Province is sold on the basis of the London prices of these metals and they are therefore used. The New York, St. Louis, and Montreal lead- and zinc-market prices differ materially from the London prices of these metals and are not properly applicable to the valuing of the British Columbia production.

By agreement with the Dominion Bureau of Statistics and the Provincial Statistical Bureaus, the following procedure of taking care of the exchange fluctuations has been agreed upon:—

(*a.*) Silver to be valued at the average New York price, adjusted to Canadian funds at the average exchange rate.

(*b.*) Lead, zinc, and copper to be valued at London prices, adjusted to Canadian funds at the average exchange rate.

(4.) In 1926 a change was made in computing coal and coke statistics. The practice in former years had been to list coal and coke production (in part) as primary mineral production. Only the coke made in bee-hive ovens was so credited; that made in by-product ovens was not listed as coke, but the coal used in making this coke was credited as coal production. The result was that the coke-production figures were incomplete. Starting with the 1926 Annual Report, the standard practice of the Bureau of Statistics, Ottawa, has been adopted. This consists of crediting all coal produced, including that used in making coke, as primary mine production. Coke-making is considered a manufacturing industry. As it is, however, of interest to the mining industry, a table included in the Report shows the total coke produced in the Province, together with by-products, and the values given by the producers. This valuation of coke is not, of course, included in the total gross mine production of the Province.

From 1918 to 1930 coal production was valued at $5 per long ton. In 1931 the price used was $4.50, and from 1932 on the price used has been $4.25 per long ton. In making comparisons with former years the decline in dollar value is accentuated by this lowered price.

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TABLE I.—British Columbia Mine Production, 1937 and 1938.

	Quantity, 1937.	Quantity, 1938.	Value, 1937.	Value, 1938.	Per Cent. Increase (+) or Decrease (—).	
					Quantity.	Value.
Metallics.			$	$		
Bismuth	----	----	----	----	----	----
Cadmium	----	----	715,747	410,090	----	— 42.7
Copper lb.	46,057,584	65,769,906	6,023,411	6,558,575	+ 42.8	+ 8.9
Gold, lode* oz.	460,781	557,522	16,122,727	19,613,624	+ 21.0	+ 21.7
Gold, placer* oz.	54,153	57,759	1,558,245	1,671,015	+ 6.7	+ 7.2
Lead lb.	419,118,371	412,979,182	21,416,949	13,810,024	— 1.5	— 35.5
Mercury lb.	----	760	----	760	+100.0	+100.0
Platinum oz.	22	16	1,066	515	— 27.3	— 51.7
Silver oz.	11,308,685	10,861,578	5,075,451	4,722,288	— 4.0	— 6.8
Zinc lb.	291,192,278	298,497,295	14,274,245	9,172,822	+ 2.5	— 35.7
Others	----	----	37,753	----	—100.0	—100.0
Totals	----	----	65,225,594	55,959,713	----	— 14.3
Fuel.						
Coal (2,240 lb.) tons	1,444,687	1,309,428	6,139,920	5,565,069	— 9.4	— 9.4
Non-metallics.						
Diatomaceous earth	----	----	1,346	363	----	— 73.0
Fluxes—limestone, quartz tons	22,089	21,089	18,032	16,676	— 4.5	— 7.5
Gypsum products, gypsite	----	----	151,175	171,372	----	+ 13.4
Iron oxides, mica	----	----	1,280	4,560	----	+256.4
Slate and rock granules, talc tons	186	274	2,790	3,295	+ 47.4	+ 18.1
Sodium carbonate, magnesium sulphate tons	1,013	722	17,030	11,668	— 28.7	— 31.5
Sulphur† tons	88,369	78,918	820,398	777,586	— 10.7	— 5.2
Totals	----	----	1,012,051	985,520	----	— 2.6
Clay Products and other Structural Materials.						
Clay Products.						
Brick—						
Common No.	5,291,044	7,221,378	75,334	102,767	+ 36.5	+ 36.4
Face, paving, sewer brick No.	995,600	525,715	35,147	21,045	— 47.2	— 40.1
Firebrick, blocks	----	----	126,115	105,933	----	— 16.0
Fireclay tons	694	467	9,986	6,489	— 32.7	— 35.0
Structural tile—hollow blocks	----	----	23,497	30,411	----	+ 29.4
Drain-tile, sewer-pipe No.	784,491	953,240	68,707	87,139	+ 21.5	+ 26.8
Pottery—glazed or unglazed	----	----	9,578	9,699	----	+ 1.3
Bentonite; other clay products	----	----	2,932	2,486	----	— 15.2
Totals	----	----	351,296	365,969	----	+ 4.2
Other Structural Materials.						
Cement	----	----	623,725	626,731	----	----
Lime and limestone tons	71,293	42,373	143,124	102,444	— 40.6	— 28.4
Sand and gravel	----	----	552,634	609,464	----	+ 10.3
Stone—building, pulp-stones tons	6,079	12,207	132,524	90,970	+ 85.0	— 31.4
Rubble, riprap, crushed rock tons	343,587	230,538	295,034	179,671	— 33.0	— 39.0
Totals	----	----	1,747,041	1,609,280	----	— 7.9
Total value in Canadian funds	----	----	74,475,902	64,485,551	----	— 13.4

* Canadian funds.

† Sulphur content of pyrites shipped, estimated sulphur contained in sulphuric acid made from waste smelter-gases, and elemental sulphur.

TABLE II.—AVERAGE METAL PRICES USED IN COMPILING VALUE OF PROVINCIAL PRODUCTION OF GOLD, SILVER, COPPER, LEAD, AND ZINC.

Year.	Gold, Fine Ounce.	Silver, Fine Ounce.	Copper, Lb.	Lead, Lb.	Zinc, Lb.
	$	Cents.	Cents.	Cents.	Cents.
1901	20.67	56.002 N.Y.	16.11 N.Y.	2.577 N.Y.	.....
1902	.....	49.55 ,,	11.70 ,,	3.66 ,,	.....
1903	.....	50.78 ,,	13.24 ,,	3.81 ,,	.....
1904	.....	53.36 ,,	12.82 ,,	3.88 ,,	.....
1905	.....	51.33 ,,	15.59 ,,	4.24 ,,	.....
1906	.....	63.45 ,,	19.28 ,,	4.81 ,,	.....
1907	.....	62.06 ,,	20.00 ,,	4.80 ,,	.....
1908	.....	50.22 ,,	13.20 ,,	3.78 ,,	.....
1909	.....	48.93 ,,	12.98 ,,	3.85 ,,	.....
1910	.....	50.812 ,,	12.738 ,,	4.00 ,,	4.60 E. St. L.
1911	.....	50.64 ,,	12.38 ,,	3.98 ,,	4.90 ,,
1912	.....	57.79 ,,	16.341 ,,	4.024 ,,	5.90 ,,
1913	.....	56.80 ,,	15.27 ,,	3.93 ,,	4.80 ,,
1914	.....	52.10 ,,	13.60 ,,	3.50 ,,	4.40 ,,
1915	.....	47.20 ,,	17.28 ,,	4.17 ,,	11.25 ,,
1916	.....	62.38 ,,	27.202 ,,	6.172 ,,	10.88 ,,
1917	.....	77.35 ,,	27.18 ,,	7.91 ,,	7.566 ,,
1918	.....	91.93 ,,	24.33 ,,	6.67 ,,	6.94 ,,
1919	.....	105.57 ,,	18.70 ,,	5.19 ,,	6.24 ,,
1920	.....	95.80 ,,	17.45 ,,	7.16 ,,	6.52 ,,
1921	.....	59.52 ,,	12.50 ,,	4.09 ,,	3.95 ,,
1922	.....	64.14 ,,	13.38 ,,	5.16 ,,	4.86 ,,
1923	.....	61.63 ,,	14.42 ,,	6.54 ,,	5.62 ,,
1924	.....	63.442 ,,	13.02 ,,	7.287 ,,	5.39 ,,
1925	.....	69.065 ,,	14.042 ,,	7.848 Lond.	7.892 Lond.
1926	.....	62.107 ,,	13.795 ,,	6.751 ,,	7.409 ,,
1927	.....	56.37 ,,	12.92 ,,	5.256 ,,	6.194 ,,
1928	.....	58.176 ,,	14.570 ,,	4.575 ,,	5.493 ,,
1929	.....	52.993 ,,	18.107 ,,	5.050 ,,	5.385 ,,
1930	.....	38.154 ,,	12.982 ,,	3.927 ,,	3.599 ,,
1931	.....	28.700 ,,	8.116 ,,	2.710 ,,	2.554 ,,
1932	23.47	31.671 ,,	6.380 Lond.	2.113 ,,	2.405 ,,
1933	28.60	37.832 ,,	7.454 ,,	2.391 ,,	3.210 ,,
1934	34.50	47.461 ,,	7.419 ,,	2.436 ,,	3.044 ,,
1935	35.19	64.790 ,,	7.795 ,,	3.133 ,,	3.099 ,,
1936	35.03	45.127 ,,	9.477 ,,	3.913 ,,	3.315 ,,
1937	34.99	44.881 ,,	13.078 ,,	5.110 ,,	4.902 ,,
1938	**35.18**	**43.477 ,,**	**9.972 ,,**	**3.344 ,,**	**3.073 ,,**
Average 1934–38 (inclusive)	34.98	49.147 ,,	9.548 ,,	3.587 ,,	3.486 ,,

NOTE.—In making comparisons with average prices used prior to 1926, it should be remembered that deductions were made from the average prices as a means of adjustment between the "assay value content" of ores shipped instead of allowing percentage losses in smelting operations. The price of copper prior to 1926 was taken at "net"; silver, at 95 per cent.; lead, at 90 per cent.; and zinc, at 85 per cent. Subsequent to 1926 (inclusive) prices are true averages, and adjustments are made on the metal content of ores for loss in smelting and refining.

TABLE III.—TOTAL PRODUCTION FOR ALL YEARS UP TO AND INCLUDING 1938.

Gold, placer	$85,931,959*
Gold, lode	227,550,196*
Silver	133,748,888
Copper	298,662,191
Lead	251,499,455
Zinc	151,296,960
Coal and coke	378,078,146
Structural materials	76,941,138
Miscellaneous minerals, etc.	14,597,258
Total	$1,618,306,191

* Canadian funds.

TABLE IV.—PRODUCTION FOR EACH YEAR FROM 1852 TO 1938 (INCLUSIVE).

1852 to 1895 (inclusive)	$94,547,370	1918	$41,782,474
1896	7,507,956	1919	33,296,313
1897	10,455,268	1920	35,543,084
1898	10,906,861	1921	28,066,641
1899	12,393,131	1922	35,162,843
1900	16,344,751	1923	41,304,320
1901	20,086,780	1924	48,704,604
1902	17,486,550	1925	61,492,242
1903	17,495,954	1926	67,188,842
1904	18,977,359	1927	60,729,358
1905	22,461,325	1928	65,372,583
1906	24,980,546	1929	68,245,443
1907	25,882,560	1930	55,391,993
1908	23,851,277	1931	34,883,181
1909	24,443,025	1932	*28,798,406
1910	26,377,066	1933	*32,602,672
1911	23,499,072	1934	*42,305,297
1912	32,440,800	1935	*48,821,239
1913	30,296,398	1936	*54,081,967
1914	26,388,825	1937	*74,475,902
1915	29,447,508	1938	*64,485,551
1916	42,290,462		
1917	37,010,392	Total	$1,618,306,191

* Canadian funds.

TABLE V.—QUANTITIES AND VALUE OF MINE PRODUCTS FOR 1936, 1937, AND 1938.

Description.	1936.		1937.		1938.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold, placer*.....oz.	43,389	$1,249,940	54,153	$1,558,245	57,759	$1,671,015
Gold, lode*.....oz.	404,472	14,168,654	460,781	16,122,727	557,522	19,613,624
Silver.....oz.	9,521,015	4,296,548	11,308,685	5,075,451	10,861,578	4,722,288
Copper.....lb.	20,806,672	1,971,848	46,057,584	6,023,411	65,769,906	6,558,575
Lead.....lb.	377,971,618	14,790,029	419,118,371	21,416,949	412,979,182	13,810,024
Zinc.....lb.	254,581,393	8,439,373	291,192,278	14,274,245	298,497,295	9,172,822
Coal.....tons, 2,240 lb.	1,346,471	5,722,502	1,444,687	6,139,920	1,309,428	5,565,069
Structural materials	.....	1,796,677	.....	2,098,337	.....	1,975,249
Miscellaneous metals and minerals	.....	1,646,396	.....	1,766,617	.....	1,396,885
Totals	.....	$54,081,967	.....	$74,475,902	.....	$64,485,551

* Canadian funds.

TABLE VI.—Production of Lode Gold, Silver, Copper, Lead, and Zinc.

Year.	Gold.		Silver.		Copper.		Lead.		Zinc.		Total Value.
	Oz.	Value.	Oz.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	
		$		$		$		$		$	$
1887	.....	.....	17,690	17,331	.....	.....	204,800	9,216	.....	.....	26,547
1888	.....	.....	79,780	75,000	.....	.....	674,500	29,813	.....	.....	104,813
1889	.....	.....	53,192	47,873	.....	.....	165,100	6,498	.....	.....	54,371
1890	.....	.....	70,427	73,948	.....	.....	.....	.....	.....	.....	73,948
1891	.....	.....	4,500	4,000	.....	.....	.....	.....	.....	.....	4,000
1892	.....	.....	77,160	66,935	.....	.....	808,420	33,064	.....	.....	99,999
1893	1,170	23,404	227,000	195,000	.....	.....	2,135,023	78,996	.....	.....	297,400
1894	6,252	125,014	746,379	470,219	324,680	16,234	5,662,523	169,875	.....	.....	781,342
1895	39,270	785,400	1,496,522	977,229	952,840	47,642	16,475,464	532,255	.....	.....	2,342,526
1896	62,259	1,244,180	3,135,343	2,100,689	3,818,556	190,926	24,199,977	721,384	.....	.....	4,257,179
1897	106,141	2,122,820	5,472,971	3,272,836	5,325,180	266,258	38,841,135	1,390,517	.....	.....	7,052,431
1898	110,061	2,201,217	4,292,401	2,375,841	7,271,678	874,781	31,693,559	1,077,581	.....	.....	6,529,420
1899	138,315	2,857,573	2,939,413	1,663,708	7,722,591	1,351,453	21,862,436	878,870	.....	.....	6,751,604
1900	167,153	3,453,381	3,958,175	2,309,200	9,997,080	1,615,289	63,358,621	2,691,887	.....	.....	10,069,757
1901	210,384	4,348,603	5,151,333	2,884,745	27,603,746	4,446,963	51,582,906	2,002,733	.....	.....	13,683,044
1902	236,491	4,888,269	3,917,917	1,941,328	29,636,057	3,446,673	22,536,381	824,832	.....	.....	11,101,102
1903	232,831	4,812,616	2,996,204	1,521,472	34,359,921	4,547,535	18,089,283	689,744	.....	.....	11,571,367
1904	222,042	4,589,608	3,222,481	1,719,516	35,710,128	4,578,037	36,646,244	1,421,874	.....	.....	12,309,035
1905	238,660	4,933,102	3,439,417	1,971,818	37,692,251	5,876,222	56,580,703	2,399,022	.....	.....	15,180,164
1906	224,027	4,630,639	2,990,262	1,897,320	42,990,488	8,288,565	52,408,217	2,667,578	.....	.....	17,484,102
1907	196,179	4,055,020	2,745,448	1,703,825	40,832,720	8,166,544	47,738,703	2,291,458	.....	.....	16,216,847
1908	255,582	5,282,880	2,631,389	1,321,483	47,274,614	6,240,249	43,195,733	1,632,799	.....	.....	14,477,411
1909	238,224	4,924,090	2,532,742	1,239,270	45,597,245	5,918,522	44,396,346	1,709,259	8,500,000	400,000	14,191,141
1910	267,701	5,533,380	2,450,241	1,245,016	38,243,934	4,871,512	34,658,746	1,386,350	4,184,192	192,473	13,228,731
1911	228,617	4,725,513	1,892,364	958,293	36,927,656	4,571,644	26,872,397	1,069,521	2,634,544	129,092	11,454,063
1912	257,496	5,322,442	3,132,108	1,810,045	51,456,537	8,408,513	44,871,454	1,805,627	5,358,280	316,139	17,662,766
1913	272,254	5,627,490	3,465,856	1,968,606	46,460,305	7,094,489	55,364,677	2,175,832	6,758,768	324,421	17,190,838
1914	247,170	5,109,004	3,602,180	1,876,736	45,009,699	6,121,319	50,625,048	1,771,877	7,866,467	346,125	15,225,061
1915	250,021	5,167,934	3,366,506	1,588,991	56,918,405	9,835,500	46,503,590	1,939,200	12,982,440	1,460,524	19,992,149
1916	221,932	4,587,334	3,301,923	2,059,739	65,379,364	17,784,494	48,727,516	3,007,462	37,168,980	4,043,985	31,483,014
1917	114,523	2,367,190	2,929,216	2,265,749	59,007,565	16,038,256	37,307,465	2,951,020	41,848,513	3,166,259	26,788,474
1918	164,674	3,403,812	3,498,172	3,215,870	61,483,754	15,143,449	43,899,661	2,928,107	41,772,916	2,899,040	27,590,278
1919	152,426	3,150,645	3,403,119	3,592,673	42,459,339	7,939,896	29,475,968	1,526,855	56,737,651	3,540,429	19,750,498
1920	120,048	2,481,392	3,377,849	3,235,980	44,887,676	7,832,899	39,331,218	2,816,115	47,208,268	3,077,979	19,444,365
1921	135,663	2,804,154	2,673,389	1,591,201	39,036,993	4,879,624	41,402,288	1,693,354	49,419,372	1,952,065	12,920,398
1922	197,856	4,089,684	7,101,311	4,554,781	32,359,896	4,329,754	67,447,985	3,480,316	57,146,548	2,777,322	19,231,857
1923	179,245	3,704,994	6,032,986	3,718,129	57,720,290	8,323,266	96,663,152	6,321,770	58,343,462	3,278,903	25,347,062
1924	247,716	5,120,535	8,341,768	5,292,184	64,845,393	8,442,870	170,384,481	12,415,917	79,130,970	4,266,741	35,538,247
1925	209,719	4,335,269	7,654,844	5,286,818	72,306,432	10,153,269	237,899,199	18,670,329	98,257,099	7,754,450	46,200,135
1926	201,427	4,163,859	10,748,556	6,675,606	89,339,768	12,324,421	263,023,937	17,757,535	142,876,947	10,586,610	51,508,031
1927	178,001	3,679,601	10,470,185	5,902,043	89,202,871	11,525,011	282,996,423	14,874,292	145,225,443	8,996,135	44,977,082
1928	188,087	3,888,097	10,627,167	6,182,461	97,908,316	14,265,242	305,140,792	13,961,412	181,763,147	9,984,613	48,281,825
1929	145,339	3,004,419	9,918,800	5,256,270	101,483,857	18,375,682	302,346,268	15,269,696	172,096,841	9,268,792	51,174,859
1930	160,778	3,323,576	11,289,171	4,307,270	90,421,545	11,738,525	319,199,752	12,535,931	250,287,306	9,010,093	40,915,395
1931	146,039	3,018,894	7,524,320	2,247,514	63,194,299	5,289,363	248,783,508	6,742,282	205,071,247	5,237,520	22,535,573
1932	181,564	4,261,307*	7,130,838	2,258,453	49,841,009	3,179,956	254,488,952	5,378,878	192,120,091	4,621,641	19,700,235
1933	223,529	6,392,929*	7,006,406	2,650,720	42,608,002	3,176,341	271,606,071	6,495,731	195,963,751	6,291,416	25,007,137
1934	297,130	10,250,985*	8,572,916	4,068,792	48,084,658	3,567,401	347,366,967	8,461,859	247,926,844	7,546,893	33,895,930
1935	365,244	12,852,936*	9,251,544	5,994,075	38,791,127	3,023,768	344,268,444	10,785,930	256,239,446	7,940,860	40,597,569
1936	404,472	14,168,654*	9,521,015	4,296,548	20,806,672	1,971,848	377,971,618	14,790,029	254,581,393	8,439,373	43,666,452
1937	460,781	16,122,727*	11,308,685	5,075,451	46,057,584	6,023,411	419,118,371	21,416,949	291,192,278	14,274,245	62,912,783
1938	557,522	19,613,624*	10,861,578	4,722,288	65,769,906	6,558,575	412,979,182	13,810,024	298,497,295	9,172,822	53,877,333
Totals	9,462,015	227,550,196*	242,653,159	133,748,888	2,035,121,627	298,662,191	5,799,995,204	251,499,455	3,449,160,499	151,296,960	1,062,757,690

* Canadian funds.

TABLE VII.—Value of Gold Production to Date.

Year.	Placer.	Lode.	Total.
1858–1862	$9,871,634	.....	$9,871,634
1863–1867	16,283,592	.....	16,283,592
1868–1872	9,895,318	.....	9,895,318
1873–1877	9,019,201	.....	9,019,201
1878–1882	5,579,911	.....	5,579,911
1883–1887	3,841,515	.....	3,841,515
1888–1892	2,525,426	.....	2,525,426
1893	356,131	$23,404	379,535
1894	405,516	125,014	530,530
1895	481,683	785,400	1,267,083
1896	544,026	1,244,180	1,788,206
1897	513,520	2,122,820	2,636,340
1898	643,346	2,201,217	2,844,563
1899	1,344,900	2,857,573	4,202,473
1900	1,278,724	3,453,381	4,732,105
1901	970,100	4,348,603	5,318,703
1902	1,073,140	4,888,269	5,961,409
1903	1,060,420	4,812,616	5,873,036
1904	1,115,300	4,589,608	5,704,908
1905	969,300	4,933,102	5,902,402
1906	948,400	4,630,639	5,579,039
1907	828,000	4,055,020	4,883,020
1908	647,000	5,282,880	5,929,880
1909	477,000	4,924,090	5,401,090
1910	540,000	5,533,380	6,073,380
1911	426,000	4,725,513	5,151,513
1912	555,500	5,322,442	5,877,942
1913	510,000	5,627,490	6,137,490
1914	565,000	5,109,004	5,674,004
1915	770,000	5,167,934	5,937,934
1916	580,500	4,587,334	5,167,834
1917	496,000	2,367,190	2,863,190
1918	320,000	3,403,812	3,723,812
1919	286,500	3,150,645	3,437,145
1920	221,600	2,481,392	2,702,992
1921	233,200	2,804,154	3,037,354
1922	368,800	4,089,684	4,458,484
1923	420,000	3,704,994	4,124,994
1924	420,750	5,120,535	5,541,285
1925	280,092	4,335,269	4,615,361
1926	355,503	4,163,859	4,519,362
1927	156,247	3,679,601	3,835,848
1928	143,208	3,888,097	4,031,305
1929	118,711	3,004,419	3,123,130
1930	152,235	3,323,576	3,475,811
1931	291,992	3,018,894	3,310,886
1932	395,542	4,261,307	4,656,849*
1933	562,787	6,392,929	6,955,716*
1934	714,431	10,250,985	10,965,416*
1935	895,058	12,852,936	13,747,994*
1936	1,249,940	14,168,654	15,418,594*
1937	1,558,245	16,122,727	17,680,972*
1938	1,671,015	19,613,624	21,284,639*
Totals	$85,931,959	$227,550,196	$313,482,155*

* Canadian funds.

TABLE VIII.—Output of Mine Products by Districts and Divisions, 1934, 1935, 1936, 1937, and 1938.

Names.	Divisions.					Districts.				
	1934.	1935.	1936.	1937.	1938.	1934.	1935.	1936.	1937.	1938.
North-western District						$5,239,054	$4,543,389	$2,904,200	$3,273,581	$4,039,662
Atlin, Stikine, and Liard*	$307,313	$406,378	$549,047	$663,570	$1,261,309					
Nass River†	3,088,657	2,221,212	61,834							
Portland Canal	1,700,724	1,636,954	2,053,210	2,213,728	2,411,757					
Skeena, Queen Charlotte, and Bella Coola	142,360	278,845	240,109	396,283	366,596					
North-eastern District						780,122	1,717,546	1,998,344	2,418,194	3,004,755
Cariboo and Quesnel	690,386	1,618,191	1,867,539	2,275,097	2,852,392					
Omineca and Peace River	89,736	99,355	130,805	143,097	152,363					
South Central District						1,826,881	2,894,642	3,321,537	4,961,159	7,658,839
Nicola and Vernon	214,798	315,550	194,490	255,320	138,828					
Yale, Ashcroft, and Kamloops	404,238	248,891	437,550	364,789	429,168					
Clinton‡										
Grand Forks, Greenwood, and Osoyoos	694,414	1,799,685	2,118,630	2,643,559	3,027,462					
Similkameen	513,431	530,516	570,867	1,697,491	4,063,381					
South-eastern District						24,828,234	28,994,311	33,258,173	48,020,055	34,761,321
Fort Steele	20,042,528	23,067,831	27,089,325	39,507,405	27,279,192					
Windermere and Golden	1,360,312	530,863	12,513	16,770	15,443					
Ainsworth	48,246	215,104	55,962	268,820	34,789					
Slocan and Slocan City	84,719	406,133	194,696	667,696	127,706					
Nelson and Arrow Lake	1,496,843	1,991,723	3,051,401	4,267,950	4,721,998					
Trail Creek	1,786,961	2,582,959	2,742,916	3,224,300	2,523,800					
Revelstoke and Lardeau	8,625	199,698	111,460	67,114	58,393					
South-western District						9,631,006	10,671,351	12,599,713	15,802,913	15,020,974
Nanaimo, Alberni, Clayoquot, Quatsino, and Victoria	2,965,047	3,262,171	3,881,722	4,463,293	4,499,167					
Vancouver, New Westminster, and Lillooet	6,466,377	7,172,367	8,303,079	11,069,818	10,315,933					
Yale, Ashcroft, and Clinton	199,582	236,813	414,912		205,874					
Totals§	$42,305,297	$48,821,239	$54,081,967	$74,475,902	$64,485,551	$42,305,297	$48,821,239	$54,081,967	$74,475,902	$64,485,551

* Liard Mining Division combined with Stikine Mining Division from and including 1937.

† Nass River Mining Division combined with Portland Canal Mining Division from and including 1937.

‡ Yale, Ashcroft, and Clinton Mining Divisions included in South-western District (Mainland section) from and including 1934. § Canadian funds.

TABLE IX.A.—Detail of Placer Gold, Lode Gold, and Silver in 1937 and 1938.

Districts and Divisions.	Year.	Tons.	Gold—Placer.		Gold—Lode.		Silver.	
			Ounces.	Value.	Ounces.	Value.	Ounces.	Value.
North-western District:				$		$		$
Atlin	1937	.....	21,683	623,925	.....	.....	.....	.....
	1938	**58,759**	**24,871**	**719,538**	**12,765**	**449,073**	.....	.....
Bella Coola	1937	.....	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....	.....
Portland Canal	1937	208,012	8	230	48,883	1,710,416	1,006,049	451,525
	1938	**339,027**	**13**	**376**	**57,616**	**2,026,931**	**824,211**	**358,342**
Queen Charlotte	1937	.....	63	1,813	.....	.....	.....	.....
	1938	.....	**75**	**2,170**	.....	.....	.....	.....
Skeena*	1937	19,621	3	86	7,175	251,053	3,002	1,347
	1938	**21,052**	**26**	**752**	**8,872**	**312,117**	**7,817**	**3,399**
Stikine	1937	.....	714	20,545	.....	.....	.....	.....
	1938	.....	**2,181**	**63,098**	.....	.....	.....	.....
North-eastern District:								
Cariboo	1937	103,231	16,329	469,865	43,198	1,511,498	4,675	2,098
	1938	**149,893**	**13,616**	**393,922**	**62,105**	**2,184,854**	**6,304**	**2,741**
Omineca	1937	30	3,076	88,511	4	140	1,151	517
	1938	.....	**3,728**	**107,854**	.....	.....	.....	.....
Peace River	1937	.....	106	3,050	.....	.....	.....	.....
	1938	.....	**155**	**4,484**	.....	.....	.....	.....
Quesnel	1937	.....	8,800	253,219	.....	.....	.....	.....
	1938	.....	**8,283**	**239,634**	.....	.....	.....	.....
South Central District:								
Kamloops	1937	13,408	196	5,640	4,787	167,497	1,322	593
	1938	**19,445**	**172**	**4,976**	**6,208**	**218,397**	**969**	**421**
Nicola	1937	10,430	2	57	617	21,589	13,234	5,940
	1938	**16**	.....	.....	.....	.....	**5,520**	**2,400**
Vernon	1937	2,871	170	4,892	1,198	41,918	2,011	902
	1938	**1,277**	**148**	**4,282**	**378**	**13,298**	**1,274**	**554**
Grand Forks	1937	1,601	10	288	933	32,646	3,207	1,439
	1938	**1,980**	**27**	**781**	**673**	**23,676**	**3,861**	**1,679**
Greenwood	1937	41,000	152	4,374	3,286	114,977	665,953	298,886
	1938	**28,841**	**156**	**4,513**	**4,655**	**163,763**	**998,636**	**434,177**
Osoyoos	1937	188,259	.....	.....	55,214	1,931,938	57,761	25,924
	1938	**247,294**	**12**	**347**	**62,563**	**2,200,966**	**57,867**	**25,159**
Similkameen	1937	444,552	80	2,302	2,102	73,549	58,436	26,227
	1938	**1,223,214**	**324**	**9,374**	**8,749**	**307,790**	**214,705**	**93,347**
South-eastern District:								
Ainsworth	1937	59,623	1	29	64	2,239	83,234	37,356
	1938	**968**	**31**	**897**	**507**	**17,836**	**8,261**	**3,592**
Arrow Lake	1937	.....	.....	.....	.....	.....	.....	.....
	1938	**50**	**2**	**58**	**19**	**669**	**93**	**40**
Fort Steele	1937	2,219,755	836	24,056	65	2,274	8,267,901	3,710,717
	1938	**2,273,264**	**957**	**27,687**	**79**	**2,779**	**8,012,355**	**3,483,532**
Golden	1937	.....	9	259	.....	.....	.....	.....
	1938	.....	**16**	**463**	.....	.....	.....	.....
Lardeau	1937	3,182	1	29	285	9,972	32,937	14,782
	1938	**367**	.....	.....	**272**	**9,569**	**15,288**	**6,647**
Nelson	1937	275,241	282	8,114	111,710	3,908,733	198,609	89,138
	1938	**332,274**	**232**	**6,712**	**124,957**	**4,395,987**	**225,620**	**98,093**
Revelstoke	1937	114	97	2,791	.....	.....	4,469	2,006
	1938	.....	**144**	**4,166**	.....	.....	.....	.....
Slocan	1937	54,716	.....	.....	117	4,094	523,537	234,969
	1938	**4,867**	.....	.....	**89**	**3,131**	**123,799**	**53,824**
Slocan City	1937	4,933	1	29	23	805	18,998	8,526
	1938	**880**	**10**	**289**	**105**	**3,694**	**68,741**	**29,886**
Trail Creek	1937	25,000	.....	.....	9,390	328,556	149,821	67,241
	1938	**119,038**	**216**	**6,249**	**8,496**	**298,889**	**60,649**	**26,368**
Windermere	1937	1	17	489	.....	.....	13	6
	1938	.....	**2**	**58**	.....	.....	.....	.....
South-western District:								
Alberni	1937	.....	.....	.....	.....	.....	.....	.....
	1938	**75**	.....	.....	**23**	**809**	**28**	**12**
Ashcroft	1937	.....	451	12,978	.....	.....	.....	.....
	1938	.....	**504**	**14,581**	.....	.....	.....	.....
Clayoquot	1937	476	.....	.....	3,183	111,373	1,360	610
	1938	**26,483**	.....	.....	**17,979**	**632,501**	**11,750**	**5,108**
Clinton	1937	11,016	355	10,215	5,356	187,407	7,837	3,517
	1938	**6,765**	**969**	**28,034**	**3,289**	**115,707**	**3,926**	**1,707**
Lillooet	1937	335,146	554	15,941	148,876	5,209,171	52,955	23,767
	1938	**308,646**	**549**	**15,883**	**162,215**	**5,706,724**	**44,830**	**19,491**
Nanaimo	1937	525	1	29	39	1,365	37	17
	1938	**423**	**2**	**58**	**63**	**2,216**	**61**	**26**
New Westminster	1937	.....	88	2,532	.....	.....	.....	.....
	1938	.....	**211**	**6,104**	.....	.....	.....	.....
Quatsino	1937	.....	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....	.....
Vancouver	1937	2,122,131	.....	.....	14,215	497,383	150,162	67,395
	1938	**2,212,106**	.....	.....	**14,769**	**519,574**	**164,930**	**71,707**
Victoria	1937	.....	3	86	.....	.....	.....	.....
	1938	**3**	**4**	**116**	.....	.....	**14**	**6**
Yale	1937	370	65	1,871	61	2,134	14	6
	1938	**84**	**123**	**3,559**	**76**	**2,674**	**69**	**30**
Totals	1937	6,145,254	54,153	†1,558,245	460,781	16,122,727	11,308,685	5,075,451
	1938	**7,377,091**	**57,759**	**†1,671,015**	**557,522**	**19,613,624**	**10,861,578**	**4,722,288**

From and including 1937 the Liard Mining Division is combined with Stikine Mining Division.
From and including 1937 the Nass River Mining Division is combined with the Portland Canal Mining Division.
* Includes all shipments to Government sampling plant at Prince Rupert during 1938.
† Includes placer gold purchased by Gold Commissioners from "snipers" and others, and in many instances was not obtained in the mining division where sold, but disposed of at the most convenient place.

TABLE IX.B.—PRODUCTION IN DETAIL OF COPPER, LEAD, AND ZINC IN 1937 AND 1938.

DISTRICTS AND DIVISIONS.	YEAR.	COPPER.		LEAD.		ZINC.	
		Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
North-western District:			$		$		$
Atlin	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Bella Coola	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Portland Canal	1937	15,485	2,025	943,871	48,232	.....	.....
	1938	**303**	**30**	**779,834**	**26,078**	.....	.....
Queen Charlotte	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Skeena	1937	62,576	8,184	.....	.....	.....	.....
	1938	**133,851**	**13,348**	.....	.....	.....	.....
Stikine	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
North-eastern District:							
Cariboo	1937	.....	.....	144	7	41	2
	1938	.....	.....	.....	.....	.....	.....
Omineca	1937	.....	.....	5,215	267	11,547	566
	1938	.....	.....	.....	.....	.....	.....
Peace River	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Quesnel	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
South Central District:							
Kamloops	1937	27,925	3,652	6,835	349	738	36
	1938	**97,094**	**9,682**	.....	.....	.....	.....
Nicola	1937	183,410	23,986	183,410	9,372	4,823	237
	1938	.....	.....	**5,328**	**178**	**6,616**	**203**
Vernon	1937	.....	.....	384	20	.....	.....
	1938	.....	.....	**880**	**30**	**322**	**10**
Grand Forks	1937	4,801	628	1,470	75	1,637	80
	1938	**6,146**	**613**	**1,559**	**52**	**1,481**	**45**
Greenwood	1937	469,980	61,464	498,023	25,449	730,420	35,805
	1938	**240,048**	**23,938**	**636,464**	**21,283**	**807,344**	**24,810**
Osoyoos	1937	483,293	63,205	31,854	1,628	.....	.....
	1938	**372,596**	**37,155**	**34,869**	**1,166**	**287**	**9**
Similkameen	1937	7,692,756	1,006,059	.....	.....	.....	.....
	1938	**29,652,613**	**2,956,958**	.....	.....	.....	.....
South-eastern District:							
Ainsworth	1937	.....	.....	2,289,536	116,995	2,085,383	102,225
	1938	.....	.....	**72,168**	**2,413**	**24,760**	**761**
Arrow Lake	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Fort Steele	1937	.....	.....	405,373,908	20,714,607	266,176,726	13,047,983
	1938	.....	.....	**406,222,153**	**13,584,069**	**267,766,054**	**8,228,451**
Golden	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Lardeau	1937	.....	.....	170,375	8,706	112,600	5,520
	1938	.....	.....	**258,718**	**8,652**	**73,598**	**2,262**
Nelson	1937	.....	.....	2,824,882	144,351	1,490,845	73,081
	1938	.....	.....	**3,890,303**	**130,092**	**1,547,177**	**47,545**
Revelstoke	1937	.....	.....	86,640	4,427	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Slocan	1937	.....	.....	2,895,724	147,972	5,507,449	269,975
	1938	.....	.....	**500,658**	**16,742**	**637,388**	**19,587**
Slocan City	1937	.....	.....	15,728	804	10,647	522
	1938	.....	.....	**12,198**	**408**	**4,723**	**145**
Trail Creek*	1937	4,679,784	612,022	3,315,682	169,431	15,059,380	738,211
	1938	**1,700,694**	**169,593**	**287,362**	**9,609**	**27,627,545**	**848,994**
Windermere	1937	.....	.....	1,247	64	42	2
	1938	.....	.....	.....	.....	.....	.....
South-western District:							
Alberni	1937	.....	.....	.....	.....	.....	.....
	1938	**4,362**	**435**	.....	.....	.....	.....
Ashcroft	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Clayoquot	1937	165	22	4,169	213	.....	.....
	1938	**189,738**	**18,921**	**6,754**	**226**	.....	.....
Clinton	1937	16,969	2,219	.....	.....	.....	.....
	1938	**2,267**	**226**	.....	.....	.....	.....
Lillooet	1937	.....	.....	19,302	986	.....	.....
	1938	**109**	**11**	.....	.....	.....	.....
Nanaimo	1937	1,229	161	.....	.....	.....	.....
	1938	**301**	**30**	.....	.....	.....	.....
New Westminster	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Quatsino	1937	.....	.....	.....	.....	.....	.....
	1938	.....	.....	.....	.....	.....	.....
Vancouver	1937	32,419,185	4,239,781	449,972	22,994	.....	.....
	1938	**33,368,792**	**3,327,536**	**269,934**	**9,026**	.....	.....
Victoria	1937	.....	.....	.....	.....	.....	.....
	1938	**685**	**68**	.....	.....	.....	.....
Yale	1937	26	3	.....	.....	.....	.....
	1938	**307**	**31**	.....	.....	.....	.....
Totals	1937	46,057,584	6,023,411	419,118,371	21,416,949	291,192,278	14,274,245
	1938	**65,769,906**	**6,558,575**	**412,979,182**	**13,810,024**	**298,497,295**	**9,172,822**

* Includes zinc and lead recovered from slag and reclaimed slags which cannot be credited to individual mines.

TABLE IX.c.—Production Value of Placer Gold, Lode Gold, Silver, Copper, Lead, Zinc in 1937 and 1938.

Districts and Divisions.	Mining Division Total.		District Total.	
	1937.	1938.	1937.	1938.
	$	$	$	$
North-western District	.....	.....	3,119,381	**3,975,252**
Atlin	623,925	**1,168,611**	.....	.....
Bella Coola	.....	.....	.....	.....
Portland Canal	2,212,428	**2,411,757**	.....	.....
Queen Charlotte	1,813	**2,170**	.....	.....
Skeena	260,670	**329,616**	.....	.....
Stikine	20,545	**63,098**	.....	.....
North-eastern District	.....	.....	2,329,740	**2,933,489**
Cariboo	1,983,470	**2,581,517**	.....	.....
Omineca	90,001	**107,854**	.....	.....
Peace River	3,050	**4,484**	.....	.....
Quesnel	253,219	**239,634**	.....	.....
South Central District	.....	.....	3,993,623	**6,586,032**
Kamloops	177,767	**233,476**	.....	.....
Nicola	61,181	**2,781**	.....	.....
Vernon	47,732	**18,174**	.....	.....
Grand Forks	35,156	**26,846**	.....	.....
Greenwood	540,955	**672,484**	.....	.....
Osoyoos	2,022,695	**2,264,802**	.....	.....
Similkameen	1,108,137	**3,367,469**	.....	.....
South-eastern District	.....	.....	44,614,108	**31,550,438**
Ainsworth	258,844	**25,499**	.....	.....
Arrow Lake	.....	**767**	.....	.....
Fort Steele	37,499,637	**25,326,518**	.....	.....
Golden	259	**463**	.....	.....
Lardeau	39,009	**27,130**	.....	.....
Nelson	4,223,417	**4,678,429**	.....	.....
Revelstoke	9,224	**4,166**	.....	.....
Slocan	657,010	**93,284**	.....	.....
Slocan City	10,686	**34,422**	.....	.....
Trail Creek	1,915,461	**1,359,702**	.....	.....
Windermere	561	**58**	.....	.....
South-western District	.....	.....	10,414,176	**10,503,137**
Alberni	.....	**1,256**	.....	.....
Ashcroft	12,978	**14,581**	.....	.....
Clayoquot	112,218	**656,756**	.....	.....
Clinton	203,358	**145,674**	.....	.....
Lillooet	5,249,865	**5,742,109**	.....	.....
Nanaimo	1,572	**2,330**	.....	.....
New Westminster	2,532	**6,104**	.....	.....
Quatsino	.....	.....	.....	.....
Vancouver	4,827,553	**3,927,843**	.....	.....
Victoria	86	**190**	.....	.....
Yale	4,014	**6,294**	.....	.....
Totals	64,471,028	**55,548,348**	64,471,028	**55,548,348**

From and including 1937 the Liard Mining Division is combined with Stikine Mining Division.
From and including 1937 the Nass River Mining Division is combined with Portland Canal Mining Division.

TABLE IX.D.—PRODUCTION OF PLACER GOLD, LODE GOLD, AND SILVER, 1900–1938.

DISTRICTS AND DIVISIONS.	GOLD—PLACER.		GOLD—LODE.		SILVER.	
	Ounces.	Value.	Ounces.	Value.	Ounces.	Value.
		$		$		$
North-western District:						
Atlin*	527,797	11,666,495	30,556	819,092	52,453	32,290
Bella Coola	5	104	.....	.....	.....	.....
Liard	14,356	285,770	.....	.....	.....	.....
Nass River	175	3,500	124,395	2,765,216	8,175,679	5,604,918
Portland Canal	21	606	1,536,621	35,573,446	37,790,912	20,406,142
Queen Charlotte	1,485	33,444	1,953	41,174	29,413	16,916
Skeena	2,118	43,702	357,401	7,846,273	198,663	151,087
Stikine	10,877	252,092	.....	.....	.....	.....
District totals	556,834	12,285,713	2,050,926	47,045,201	46,247,120	26,211,353
North-eastern District:						
Cariboo†	1,874,103	37,836,744	197,435	6,873,662	22,387	10,858
Omineca	29,239	684,044	8,254	182,792	2,239,897	1,411,386
Peace River	3,549	77,556	.....	.....	.....	.....
Quesnel‡	596,743	12,155,173	.....	.....	.....	.....
District totals	2,503,634	50,753,517	205,689	7,056,454	2,262,284	1,422,244
South Central District:						
Kamloops	2,526	58,384	36,768	1,222,064	278,680	166,215
Nicola	228	4,592	7,932	212,100	238,675	115,335
Vernon	1,262	28,978	3,869	124,975	6,298	3,250
Grand Forks	651	13,652	164,480	3,549,556	1,940,984	855,183
Greenwood	2,933	67,957	900,484	19,067,605	15,676,811	8,428,325
Osoyoos	173	3,621	797,048	19,186,472	442,535	296,226
Similkameen	5,964	125,604	34,695	874,338	1,036,398	533,219
District totals	13,737	302,788	1,945,276	44,237,110	19,620,381	10,397,753
South-eastern District:						
Ainsworth	200	5,301	2,348	55,191	6,464,989	3,906,096
Arrow Lake	109	2,420	180	4,052	13,699	10,527
Fort Steele	15,232	337,902	2,392	51,770	95,110,630	48,071,235
Golden	203	4,594	6	124	388,762	197,445
Lardeau	863	19,784	18,672	512,001	152,350	84,373
Nelson	2,468	57,980	833,230	23,316,195	3,687,169	2,052,383
Revelstoke	3,667	75,927	12	335	50,097	31,309
Slocan	1	29	3,890	85,907	35,344,435	21,701,705
Slocan City	24	664	1,567	38,774	3,413,793	1,989,936
Trail Creek	593	16,589	2,573,708	54,413,939	3,212,053	1,802,846
Trout Lake	861	17,137	5,502	113,725	1,920,701	1,030,840
Windermere	217	5,160	64	1,323	705,682	503,498
District totals	24,438	543,487	3,441,571	78,593,336	150,464,360	81,382,193
South-western District:						
Alberni	266	5,503	409	13,592	1,581	923
Ashcroft	9,515	207,545	8,476	289,680	16,804	9,513
Clayoquot	1,308	26,436	22,956	791,496	38,636	23,583
Clinton	8,070	178,553	18,822	659,032	27,106	12,438
Lillooet§	88,740	1,799,153	992,237	31,995,548	270,288	128,241
Nanaimo	217	4,472	66,720	1,382,628	512,594	295,669
New Westminster	1,224	31,603	.....	.....	268	167
Quatsino	233	4,902	59	1,219	4,245	2,157
Vancouver	113	3,255	200,774	5,295,443	2,868,896	1,640,696
Victoria	423	9,269	35,348	730,644	734,287	399,098
Yale	7,423	152,529	3,455	78,182	6,532	3,270
District totals	117,532	2,423,220	1,349,256	41,237,464	4,481,237	2,515,755
Provincial totals	3,216,175	66,308,725	8,992,718	218,169,565	223,075,382	121,929,298

From and including 1937 the Liard Mining Division is combined with Stikine Mining Division.
From and including 1937 the Nass River Mining Division is combined with Portland Canal Mining Division.
From and including 1931 the Trout Lake Mining Division was combined with Lardeau Mining Division.
* Atlin totals include estimated placer gold production from and including 1898.
† Cariboo totals include estimated placer gold production from and including 1858.
‡ Quesnel totals include estimated placer gold production from and including 1858.
§ Lillooet totals include estimated placer gold production from and including 1874.

TABLE IX.E.—Production of Copper, Lead, and Zinc, 1900–1938.

Districts and Divisions.	Copper.		Lead.		Zinc.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
		$		$		$
North-western District:						
Atlin	83,161	11,949	109,945	7,036	.....	.....
Bella Coola	.....	.....	.....	.....	.....	.....
Liard	.....	.....	.....	.....	.....	.....
Nass River	645,243,514	96,155,780	50,148	2,621	.....	.....
Portland Canal	3,896,838	579,919	20,495,792	909,962	1,867,664	110,254
Queen Charlotte	1,457,541	276,471	.....	.....	.....	.....
Skeena	5,653,225	883,032	.....	.....	.....	.....
Stikine	.....	.....	.....	.....	.....	.....
District totals	656,334,279	97,907,151	20,655,885	919,619	1,867,664	110,254
North-eastern District:						
Cariboo	.....	.....	656	30	492	16
Omineca	6,050,228	1,338,025	5,851,278	332,835	3,789,588	242,884
Peace River	.....	.....	.....	.....	.....	.....
Quesnel	.....	.....	.....	.....	.....	.....
District totals	6,050,228	1,338,025	5,851,934	332,865	3,790,080	242,900
South Central District:						
Kamloops	5,598,493	1,004,678	367,164	20,687	406,758	25,981
Nicola	536,304	103,443	2,098,415	84,604	233,677	7,561
Vernon	614	89	6,331	292	2,764	147
Grand Forks	47,136,356	7,326,841	415,144	13,363	551,537	14,001
Greenwood	393,506,886	63,113,042	6,354,488	268,938	4,974,142	168,281
Osoyoos	1,197,903	136,725	233,561	6,877	4,803	151
Similkameen	136,221,615	18,491,487	235,461	8,907	63,720	2,596
District totals	584,198,171	90,176,305	9,710,564	403,668	6,237,401	218,718
South-eastern District:						
Ainsworth	10,175	1,201	120,849,935	5,957,504	33,667,279	1,006,871
Arrow Lake	216,034	41,651	24,734	1,564	140	4
Fort Steele	28,592	6,193	5,062,425,758	219,046,571	3,046,990,639	130,537,887
Golden	10,822	1,949	54,189,305	1,717,514	53,392,821	1,750,033
Lardeau	155	12	984,137	45,170	227,984	10,747
Nelson	5,685,261	889,008	46,702,719	2,113,514	19,181,848	1,279,583
Revelstoke	683	124	939,741	55,885	8,093	469
Slocan	3,284	636	285,201,252	13,721,172	158,947,083	10,829,580
Slocan City	.....	.....	5,690,259	235,563	563,612	34,868
Trail Creek	111,629,145	16,804,631	14,919,062	621,844	105,648,613	3,673,809
Trout Lake	5,439	773	8,502,337	334,396	62,705	4,233
Windermere	46,556	8,641	13,798,509	829,410	592,765	33,011
District totals	117,636,146	17,754,819	5,614,227,748	244,680,107	3,419,283,582	149,161,095
South-western District:						
Alberni	313,646	51,329	263	8	.....	.....
Ashcroft	633,775	155,721	99	4	.....	.....
Clayoquot	1,289,566	219,225	11,087	445	.....	.....
Clinton	56,565	5,806	193	7	.....	.....
Lillooet	109	11	60,228	2,470	.....	.....
Nanaimo	20,041,451	3,173,273	.....	.....	.....	.....
New Westminster	21,712	5,897	.....	.....	.....	.....
Quatsino	174,642	27,693	.....	.....	.....	.....
Vancouver	570,950,614	82,088,203	7,020,358	245,536	17,981,772	563,988
Victoria	20,505,707	3,049,838	.....	.....	.....	.....
Yale	333	34	12,088	541	.....	.....
District totals	613,988,120	88,777,030	7,104,316	249,011	17,981,772	563,988
Provincial totals	1,978,206,944	295,953,330	5,657,550,447	246,585,270	3,449,160,499	150,296,955

From and including 1937 the Liard Mining Division is combined with Stikine Mining Division.
From and including 1937 the Nass River Mining Division is combined with Portland Canal Mining Division.
From and including 1931 the Trout Lake Mining Division was combined with Lardeau Mining Division.

TABLE IX.F.—PRODUCTION VALUE OF PLACER GOLD, LODE GOLD, SILVER, COPPER, LEAD, AND ZINC, BY MINING DIVISIONS AND DISTRICTS, 1900–1938.

DISTRICTS AND DIVISIONS.	Mining Division Total.	District Total.
	$	$
North-western District		**184,479,291**
Atlin*	12,536,862	
Bella Coola	104	
Liard	285,770	
Nass River	104,532,035	
Portland Canal	57,580,329	
Queen Charlotte	368,005	
Skeena	8,924,094	
Stikine	252,092	
North-eastern District		**61,146,005**
Cariboo†	44,721,310	
Omineca	4,191,966	
Peace River	77,556	
Quesnel‡	12,155,173	
South Central District		**145,736,342**
Kamloops	2,498,009	
Nicola	527,635	
Vernon	157,731	
Grand Forks	11,772,596	
Greenwood	91,114,148	
Osoyoos	19,630,072	
Similkameen	20,036,151	
South-eastern District		**572,115,037**
Ainsworth	10,932,164	
Arrow Lake	60,218	
Fort Steele	398,051,558	
Golden	3,671,659	
Lardeau	672,087	
Nelson	29,708,663	
Revelstoke	164,049	
Slocan	46,339,029	
Slocan City	2,299,805	
Trail Creek	77,333,658	
Trout Lake	1,501,104	
Windermere	1,381,043	
South-western District		**135,766,468**
Alberni	71,355	
Ashcroft	662,463	
Clayoquot	1,061,185	
Clinton	855,836	
Lillooet§	33,925,423	
Nanaimo	4,856,042	
New Westminster	37,667	
Quatsino	35,971	
Vancouver	89,837,121	
Victoria	4,188,849	
Yale	234,556	
Provincial totals	1,099,243,143	**1,099,243,143**

From and including 1937 the Liard Mining Division is combined with Stikine Mining Division.
From and including 1937 the Nass River Mining Division is combined with Portland Canal Mining Division.
From and including 1931 the Trout Lake Mining Division was combined with Lardeau Mining Division.
* Atlin totals include estimated placer gold production from and including 1898.
† Cariboo totals include estimated placer gold production from and including 1858.
‡ Quesnel totals include estimated placer gold production from and including 1858.
§ Lillooet totals include estimated placer gold production from and including 1874.

TABLE X.—Production in Detail of Structural Materials, 1938.

Districts and Divisions.	Cement.	Lime and Limestone.	Building-stone.	Riprap and Crushed Rock.	Sand and Gravel.	Brick (Common).	Face, Paving, and Sewer Brick.	Firebrick, Blocks.	Fireclay.	Structural Tile, Hollow.	Drain-tile and Sewer-pipe.	Pottery, Glazed or Unglazed.	Other Clay Products.	Divisions.	Districts.
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
North-western District															64,410
Atlin and Stikine				14,200	15,400									29,600	
Portland Canal															
Skeena and Queen Charlotte				5,217	12,631									17,848	
Bella Coola		8,444		3,104	5,414									16,962	
North-eastern District															53,643
Cariboo and Quesnel				299	30,277									30,576	
Omineca and Peace River				1,821	21,246									23,067	
South Central District															93,794
Nicola, Vernon, and Kamloops			3,000	926	23,601	3,002				1,158	538			32,225	
Grand Forks and Greenwood				1,000	3,450									4,450	
Osoyoos				3,193	40,730									43,923	
Similkameen				1,385	10,760								1,051	13,196	
South-eastern District															223,075
Fort Steele				32,499	75,386									107,885	
Windermere and Golden				614	14,308									14,922	
Ainsworth				500	8,790									9,290	
Slocan and Slocan City															
Nelson			6,570	4,540	29,973									41,083	
Trail Creek					22,798									22,798	
Revelstoke				8,126	18,971									27,097	
South-western District															1,540,327
Nanaimo and Alberni		83,160	30,000	5,100	23,464	22,208								163,932	
Victoria and Quatsino	626,731	10,840		2,542	69,520	34,903	355			5,801	8,343	3,549	528	763,112	
Lillooet				2,384	1,401									3,785	
Yale					17,000									17,000	
Clinton															
Ashcroft				7,300	199									7,499	
Vancouver			51,400	36,257	63,881									151,538	
New Westminster				48,664	100,264	42,654	20,690	105,933	6,489	23,452	78,258	6,150	907	433,461	
Totals	626,731	102,444	90,970	179,671	609,464	102,767	21,045	105,933	6,489	30,411	87,139	9,699	2,486	1,975,249	1,975,249

TABLE XI.—Production in Detail of Miscellaneous Metals, Minerals, and Materials, 1938.

Districts and Divisions.	Cadmium.	Diatomite.	Flux (Limestone and Quartz).	Gypsum Products.	Iron Oxides.	Mercury.	Platinum.	Slate and Rock Granules.	Soda and Magnesium Sulphate.	Sulphur (Elemental) and Sulphur Content of Pyrite and Sulphuric Acid Manufactured.	Division Totals.	District Totals.
	$	$	$	$	$	$	$	$	$	$	$	$
North-western District	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atlin and Stikine	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portland Canal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Skeena and Queen Charlotte	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North-eastern District	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	395
Cariboo and Quesnel	.....	363	.....	.....	.....	.....	32	.....	.....	.....	395	.....
Omineca and Peace River	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Central District	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	186,780
Nicola, Vernon, and Kamloops	.....	.....	.....	171,372	.....	.....	.....	.....	.....	.....	171,372	.....
Grand Forks and Greenwood	.....	.....	14,957	.....	.....	.....	.....	.....	.....	.....	14,957	.....
Osoyoos and Similkameen	.....	.....	.....	.....	.....	.....	451	.....	.....	.....	451	.....
South-eastern District	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,143,019
Fort Steele	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windermere and Golden	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ainsworth	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Slocan and Slocan City	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nelson and Arrow Lake	.....	.....	1,719	.....	.....	.....	.....	.....	.....	.....	1,719	.....
Trail Creek and Revelstoke	410,090	.....	.....	.....	.....	.....	.....	.....	.....	731,210	1,141,300	.....
South-western District	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66,691
Nanaimo and Alberni	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Victoria and Quatsino	.....	.....	.....	.....	.....	.....	.....	2,900	.....	.....	2,900	.....
Lillooet and Clinton	.....	.....	.....	.....	.....	760	32	.....	2,268	.....	3,060	.....
Yale and Ashcroft	.....	.....	.....	.....	.....	.....	.....	.....	9,400	.....	9,400	.....
Vancouver and New Westminster	.....	.....	.....	.....	4,560	.....	.....	395	.....	46,376	51,331	.....
Totals	410,090	363	16,676	171,372	4,560	760	515	3,295	11,668	777,586	1,396,885	*1,396,885

* Does not include mica sales valued at $1,562; data received too late.

TABLE XII.—British Columbia Mine Production, 1895–1938.

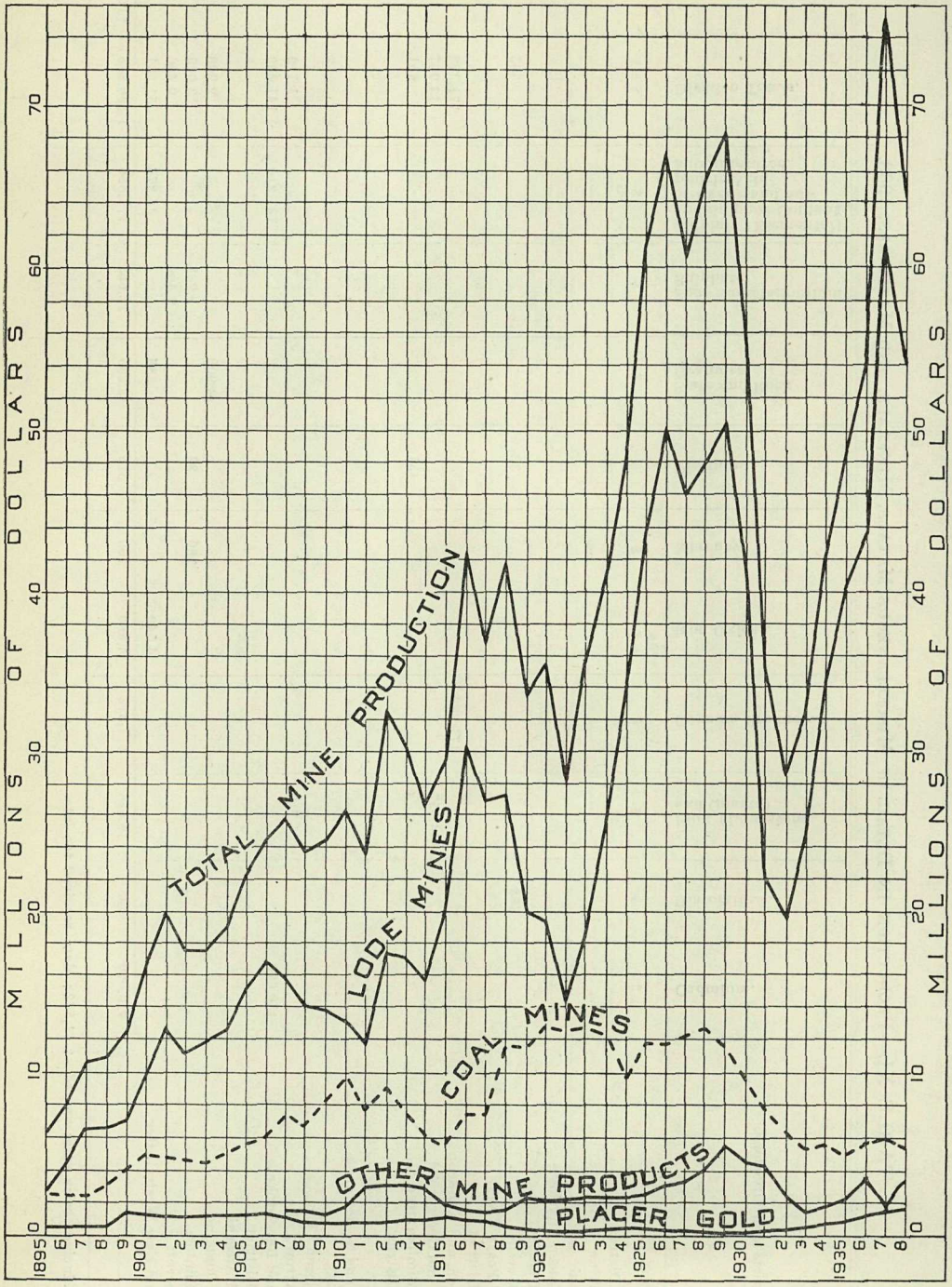


TABLE XIII.—Production of Lode Mines in British Columbia, 1913–1938.

TABLE XIV.—Coal Production per Year to Date.*

	Tons. (2,240 lb.)	Value.		Tons. (2,240 lb.)	Value.
1836–1885	3,029,011	$9,468,557	1913	2,137,483	$7,481,190
1886	326,636	979,908	1913	2,137,483	7,481,190
1887	413,360	1,240,080	1914	1,810,967	6,338,385
1888	489,301	1,467,903	1915	1,611,129	5,638,952
1889	579,830	1,739,490	1916	2,084,093	7,294,325
1890	678,140	2,034,420	1917	2,149,975	7,524,913
1891	1,029,097	3,087,291	1918	2,302,245	11,511,225
1892	826,335	2,479,005	1919	2,267,541	11,337,705
1893	978,294	2,934,882	1920	2,595,125	12,975,625
1894	1,012,953	3,038,859	1921	2,483,995	12,419,975
1895	939,654	2,818,962	1922	2,511,843	12,559,215
1896	896,222	2,688,666	1923	2,453,223	12,266,115
1897	882,854	2,648,562	1924	1,939,526	9,697,630
1898	1,135,865	3,407,595	1925	2,328,522	11,642,610
1899	1,306,324	3,918,972	1926	2,330,036	11,650,180
1900	1,439,595	4,318,785	1927	2,453,827	12,269,135
1901	1,460,331	4,380,993	1928	2,526,702	12,633,510
1902	1,397,394	4,192,182	1929	2,251,252	11,256,260
1903	1,168,194	3,504,582	1930	1,887,130	9,435,650
1904	1,253,628	3,760,884	1931	1,707,590	7,684,155
1905	1,384,312	4,152,936	1932	1,534,975	6,523,644
1906	1,517,303	4,551,909	1933	1,264,746	5,375,171
1907	1,800,067	6,300,235	1934	1,347,090	5,725,133
1908	1,677,849	5,872,472	1935	1,187,968	5,048,864
1909	2,006,476	7,022,666	1936	1,346,471	5,722,502
1910	2,800,046	9,800,161	1937	1,444,687	6,139,920
1911	2,193,062	7,675,717	1938	1,309,428	5,565,069
1912	2,628,804	9,200,814			
			Totals	88,518,506	$352,404,546

* For all years to 1925 (inclusive) figures are net coal production and do not include coal made into coke; subsequent figures are entire coal production, including coal made into coke.

TABLE XV.—Coke Production from Bee-hive Ovens in British Columbia from 1895 to 1925.

	Tons. (2,240 lb.)	Value.		Tons. (2,240 lb.)	Value.
1895–97	19,396	$96,980	1913	286,045	$1,716,270
1898 (estimated)	35,000	175,000	1914	234,577	1,407,462
1899	34,251	171,255	1915	245,871	1,475,226
1900	85,149	425,745	1916	267,725	1,606,350
1901	127,081	635,405	1917	159,905	959,430
1902	128,015	640,075	1918	188,967	1,322,769
1903	165,543	827,715	1919	91,138	637,966
1904	238,428	1,192,140	1920	67,792	474,544
1905	271,785	1,358,925	1921	59,434	416,038
1906	199,227	996,135	1922	45,835	320,845
1907	222,913	1,337,478	1923	58,919	412,433
1908	247,399	1,484,394	1924	30,615	214,305
1909	258,703	1,552,218	1925	75,185	526,295
1910	218,029	1,308,174			
1911	66,005	396,030	Totals	4,393,255	$25,673,600
1912	264,333	1,585,998			

TABLE XVI.—Coke and By-products Production of British Columbia, 1937 and 1938.

Description.	1937.		1938.	
	Quantity.	Value.	Quantity.	Value.
Coal used in making coke, long tons	148,348	$570,250	157,951	$623,649
Coke made in bee-hive ovens, long tons	43,215	277,726	48,760	315,294
Coke made in by-product ovens, long tons	.....	.....	.....	.....
Coke made in gas plants, long tons	52,813	330,821	53,004	345,790
Total coke made, long tons	96,028	$608,547	101,764	$661,084
Gas sold and used	.....	1,746,047	.....	1,770,839
Tar produced	.....	46,698	.....	44,324
Other by-products	.....	.....	.....	.....
Total production value of coke industry	.....	$2,401,292	.....	$2,476,247

TABLE XVII.—Dividends paid by Mining Companies, 1897–1938.

Lode-gold Mines.

Company or Mine.	Locality.	Class.	Amount paid.
Arlington	Erie	Gold	$55,468
Athabasca	Nelson	Gold	25,000
Bralorne	Bridge River	Gold	3,606,050
Belmont-Surf Inlet	Princess Royal Island	Gold	1,437,500
Cariboo Gold Quartz	Wells	Gold	479,990
Cariboo-McKinney	Camp McKinney	Gold	565,588
Canadian Pacific Exploration	Nelson	Gold	37,500
Centre Star	Rossland	Gold	472,255
Fairview Amalgamated	Oliver	Gold	5,329
Fern	Nelson	Gold	15,000
Goodenough	Ymir	Gold	13,931
Hedley Mascot	Hedley	Gold	362,260
Island Mountain	Wells	Gold	262,680
I.X.L.	Rossland	Gold	132,533
Jewel-Denero	Greenwood	Gold	11,751
Kelowna Exploration	Hedley	Gold	90,000
Kootenay Belle	Sheep Creek	Gold	101,280
Le Roi Mining Co.	Rossland	Gold	1,475,000
Le Roi No. 2	Rossland	Gold	1,574,640
Lorne	Bridge River	Gold	20,450
Nickel Plate	Hedley	Gold	3,423,191
Pioneer	Bridge River	Gold	6,706,768
Poorman	Nelson	Gold	25,000
Premier	Premier	Gold	19,658,075
Queen	Sheep Creek	Gold	85,000
Relief	Erie	Gold	5,000
Reno	Sheep Creek	Gold	897,840
Sheep Creek Mines, Ltd.	Sheep Creek	Gold	581,250
Silbak Premier	Premier	Gold	200,000
Sunset No. 2	Rossland	Gold	115,007
War Eagle	Rossland	Gold	1,245,250
Motherlode	Sheep Creek	Gold	162,500
Ymir Gold	Ymir	Gold	300,000
Ymir Yankee Girl	Ymir	Gold	133,501
Miscellaneous mines		Gold	23,530
Total, lode-gold mines			$44,306,117

The gold-copper properties of Rossland are included in this table.

Silver-lead-zinc Mines.

Antoine	Rambler	Silver-lead-zinc	$10,000
Beaverdell-Wellington	Beaverdell	Silver-lead-zinc	97,200
Bell	Beaverdell	Silver-lead-zinc	476,297
Bosun (Rosebery-Surprise)	New Denver	Silver-lead-zinc	27,500
Capella	New Denver	Silver-lead-zinc	5,500
Consolidated Mining and Smelting Co. of Canada, Ltd.	Trail	Silver-lead-zinc	79,789,101
Couverapee	Field	Silver-lead-zinc	5,203
Duthie Mines, Ltd.	Smithers	Silver-lead-zinc	50,000
Florence Silver	Ainsworth	Silver-lead-zinc	35,393
Goodenough	Cody	Silver-lead-zinc	45,668
H.B. Mining Co.	Hall Creek	Silver-lead-zinc	8,904
Highland Lass, Ltd.	Beaverdell	Silver-lead-zinc	132,464
Highland Bell, Ltd.	Beaverdell	Silver-lead-zinc	159,547
Horn Silver	Similkameen	Silver-lead-zinc	6,000
Idaho-Alamo	Sandon	Silver-lead-zinc	400,000
Iron Mountain (Emerald)	Salmo	Silver-lead-zinc	20,000
Jackson	Retallack	Silver-lead-zinc	20,000
Last Chance	Three Forks	Silver-lead-zinc	213,109
Lone Batchelor	Sandon	Silver-lead-zinc	50,000
Carried forward			$81,551,886

TABLE XVII.—DIVIDENDS PAID BY MINING COMPANIES, 1897–1938—*Continued.*

Silver-lead-zinc Mines—Continued.

Company or Mine.	Locality.	Class.	Amount paid.
Brought forward			$81,551,886
Lucky Jim	Three Forks	Silver-lead-zinc	80,000
Mercury	Sandon	Silver-lead-zinc	6,000
Meteor	Slocan City	Silver-lead-zinc	10,257
Monitor and Ajax	Three Forks	Silver-lead-zinc	27,500
Mountain Con	Cody	Silver-lead-zinc	71,387
McAllister	Three Forks	Silver-lead-zinc	40,894
Noble Five	Cody	Silver-lead-zinc	72,859
North Star	Kimberley	Silver-lead-zinc	496,901
No. One	Sandon	Silver-lead-zinc	6,754
Ottawa	Slocan City	Silver-lead-zinc	107,928
Payne	Sandon	Silver-lead-zinc	1,438,000
Providence	Greenwood	Silver-lead-zinc	33,810
Queen Bess	Alamo	Silver-lead-zinc	25,000
Rambler-Cariboo	Rambler	Silver-lead-zinc	575,000
Reco	Cody	Silver-lead-zinc	332,492
Ruth Mines, Ltd.	Sandon	Silver-lead-zinc	165,000
St. Eugene	Moyie	Silver-lead-zinc	566,000
Silversmith	Sandon	Silver-lead-zinc	725,000
Slocan Silver	Alamo	Silver-lead-zinc	11,600
Slocan Star	Sandon	Silver-lead-zinc	567,500
Spokane-Trinket	Ainsworth	Silver-lead-zinc	9,564
Standard Silver Lead	Silverton	Silver-lead-zinc	2,700,000
Sunset and Trade Dollar	Retallack	Silver-lead-zinc	88,000
Utica	Kaslo	Silver-lead-zinc	64,000
Wallace Mines, Ltd. (Sally)	Beaverdell	Silver-lead-zinc	135,000
Washington	Rambler Station	Silver-lead-zinc	38,000
Whitewater	Retallack	Silver-lead-zinc	592,515
Miscellaneous mines		Silver-lead-zinc	70,237
Total, silver-lead-zinc mines			$90,609,084

Copper Mines.

Britannia M. & S. Co.*	Britannia Beach	Copper	$6,552,578
Canada Copper Corporation	Greenwood	Copper	615,399
Cornell	Texada Island	Copper	8,500
Granby Cons. M.S. & P. Co.†	Anyox	Copper	8,025,471
Marble Bay	Texada Island	Copper	175,000
Hall Mines	Nelson	Copper	160,000
Miscellaneous mines		Copper	260,770
Total, copper mines			$15,797,718

* The Howe Sound Company is the holding company for the *Britannia* mine in British Columbia and other mines in Mexico and the State of Washington. Dividends paid by the Howe Sound Company are therefore derived from all operations, and in the foregoing table the dividends credited to the *Britannia* mine have been paid by the Britannia Mining and Smelting Company, Limited, none being credited subsequent to 1930. In making comparison with yearly totals the amounts credited to the Howe Sound Company have been deducted for the years shown, so the total in the annual report concerned will show the higher figure. Dividends paid by Premier Gold Mining Company, Limited, are derived from operations in British Columbia and other countries, and so cannot now be credited to British Columbia. Silbak Premier is a subsidiary of Premier Gold Mining Company, and dividends paid by that company are, of course, included in Provincial totals.

† The amount shown to the credit of the Granby Consolidated Mining, Smelting, and Power Company, Limited, does not include the sum of $6,749,996 paid by the company during 1935 and 1936 as a distribution or repayment of capital, subsequent to the closing-down of its operations at Anyox and the company going into voluntary liquidation. Operations ceased at Anyox in August, 1935. The company since that date has revived its business charter and is conducting operations at Allenby, B.C.

The term " Miscellaneous " noted in each class of dividend covers all payments of $5,000 and under, together with payments made by companies or individuals requesting that the item be not disclosed.

In compiling the foregoing table of dividends paid, the Department wishes to acknowledge the kind assistance given by companies, individuals, and trade journals in giving information on the subject.

TABLE XVII.—DIVIDENDS PAID BY MINING COMPANIES, 1897–1938—*Continued.*

Coal.

Wellington Collieries, Ltd., Nanaimo	$16,000,000
Crow's Nest Pass Coal Co., Ltd., Fernie	12,122,602
Total	$28,122,602

Miscellaneous and Structural.

Various	$1,630,041

Aggregate of all Classes.

Lode-gold mining	$44,306,117
Silver-lead-zinc mining	90,609,084
Copper-mining	15,797,718
Coal-mining	28,122,602
Miscellaneous and structural	1,630,041
Total	$180,465,562

Dividends paid Yearly, 1919 to 1938, inclusive.

Year.	Amount paid.	Year.	Amount paid.
1919	$2,494,283	1930	$10,543,500
1920	1,870,296	1931	4,650,857
1921	736,629	1932	2,786,958
1922	3,174,756	1933	2,471,735
1923	2,983,570	1934	4,745,905
1924	2,977,276	1935	7,386,070
1925	5,853,419	1936	10,513,705
1926	8,011,137	1937	15,085,293
1927	8,816,681	1938	11,992,316
1928	9,572,536		
1929	11,263,118	Total	$127,930,040

Dividends paid during 1937 and 1938.

	1937.	1938.
Arlington	----------	$11,510
Beaverdell-Wellington	$18,000	----------
Bralorne Mines, Ltd.	935,250	1,184,650
Cariboo Gold Quartz Mines, Ltd.	133,330	213,329
The Consolidated Mining and Smelting Co. of Canada, Ltd.	11,413,189	8,164,587
Crow's Nest Pass Coal Co., Ltd.	279,351	109,795
Fairview Amalgamated Gold Mines	2,668	2,661
Hedley Mascot Gold Mines, Ltd.	----------	362,260
Highland Bell, Ltd.	52,634	92,110
Island Mountain Mines, Ltd.	52,536	105,072
I.X.L.	----------	900
Kelowna Exploration	----------	90,000
Kootenay Belle	----------	101,280
Pioneer Gold Mines of B.C., Ltd.	875,875	700,700
Premier Gold Mining Co., Ltd.	800,000	----------
Reno Gold Mines, Ltd.	225,600	197,400
Sheep Creek Gold Mines, Ltd.	187,500	281,250
Silbak Premier	----------	200,000
Ymir Yankee Girl Mine, Ltd.	22,251	----------
Others	87,109	174,812
Totals	$15,085,293	$11,992,316

TABLE XVIII.—Capital employed, Salaries and Wages, Fuel and Electricity, and Process Supplies, 1938.

District and Class.	Capital employed.	Salaries and Wages.	Fuel and Electricity.	Process Supplies.
	$	$	$	$
North-western District—				
Lode-mining	5,723,246	1,383,040	108,800	492,901
Placer-mining	3,609,758	216,742	18,461	25,547
Coal-mining	----------	----------	----------	----------
Miscellaneous and structural	468,435	31,489	13,245	1,889
Totals	9,801,439	1,631,271	140,506	520,337
North-eastern District—				
Lode-mining	4,523,490	988,365	109,446	494,124
Placer-mining	4,065,390	608,063	20,307	34,166
Coal, miscellaneous, and structural	22,900	30,980	22,017	2,230
Totals	8,611,780	1,627,408	151,770	530,520
South Central District—				
Lode-mining	9,810,788	1,906,164	370,484	721,135
Placer-mining	136,412	25,685	2,716	295
Coal-mining	1,214,404	485,218	45,973	59,475
Miscellaneous and structural	26,549	81,237	13,574	45
Totals	11,188,153	2,498,304	432,747	780,950
South-eastern District—				
Lode-mining	57,787,991	8,919,434	1,841,651	1,911,365
Placer-mining	107,100	38,835	2,028	841
Coal-mining	6,314,295	892,423	66,921	230,000
Miscellaneous	514,391	79,458	943	----------
Structural	51,780	13,784	915	1,154
Totals	64,775,557	9,943,934	1,912,458	2,143,360
South-western District—				
Lode-mining	19,994,298	3,834,672	282,296	1,854,957
Placer-mining	221,432	40,970	266	24
Coal-mining	17,958,965	2,146,708	178,689	668,778
Miscellaneous	14,892,098	398,818	38,722	----------
Structural	5,569,126	643,626	258,652	45,574
Totals	58,635,919	7,064,794	758,625	2,569,333
Grand totals, 1938	153,012,848	22,765,711	3,396,106	6,544,500
Grand totals, 1937	145,520,641	21,349,690	3,066,311	6,845,330
Grand totals, 1936	142,663,065	17,887,619	2,724,144	4,434,501
Grand totals, 1935	143,239,953	16,753,367	2,619,639	4,552,730

Note.—The above figures, compiled from returns on the subject made by companies and individuals, illustrate the amount of capital employed in the mining industry in 1938, the amount of money distributed in salaries and wages, fuel and electricity, and process supplies (explosives, chemicals, drill-steel, lubricants, etc.).

Capital employed includes: Present cash value of the land (excluding minerals); present value of buildings, fixtures, machinery, tools, and other equipment; inventory value of materials on hand, ore in process, fuel and miscellaneous supplies on hand; inventory value of finished products on hand; operating capital (cash, bills and accounts receivable, prepaid expenses, etc.).

TABLE XIX.—TONNAGE, NUMBER OF MINES, NET AND GROSS VALUE OF LODE MINERALS, 1901–1938.

District.	Year.	Tonnage.	No. of Shipping-mines.	No. of Mines Shipping over 100 Tons.	Net Value to Shipper of Lode Minerals produced.	Gross Value of Lode Minerals produced.
	1901	920,416	119	78	.....	$14,100,282
	1902	998,999	124	75	.....	11,581,153
	1903	1,286,176	125	74	.....	12,103,237
	1904	1,461,609	142	76	.....	12,909,035
	1905	1,706,679	146	79	.....	15,980,164
	1906	1,963,872	154	77	.....	18,484,102
	1907	1,804,114	147	72	.....	17,316,847
	1908	2,083,606	108	59	.....	15,847,411
	1909	2,057,713	89	52	.....	15,451,141
	1910	2,216,428	83	50	.....	14,728,731
	1911	1,770,755	80	45	.....	11,454,063
	1912	2,688,532	86	51	.....	17,662,766
	1913	2,663,809	110	58	.....	17,190,838
	1914	2,175,971	98	56	.....	15,225,061
	1915	2,690,110	132	59	.....	19,992,149
	1916	3,188,865	169	81	.....	31,483,014
	1917	2,761,579	193	87	.....	26,788,474
	1918	2,892,849	175	80	.....	27,590,278
	1919	2,112,975	144	74	.....	19,750,498
	1920	2,178,187	121	60	.....	19,444,365
	1921	1,562,645	80	35	.....	12,920,398
	1922	1,573,186	98	33	.....	19,227,857
	1923	2,421,839	77	28	.....	25,347,092
	1924	3,397,105	86	37	.....	35,538,247
	1925	3,849,269	102	40	.....	46,200,135
	1926	4,775,073	138	55	$38,558,613	51,508,031
	1927	5,416,021	132	52	27,750,364	44,977,082
	1928	6,241,310	110	49	29,070,075	48,281,825
	1929	6,977,681	106	48	34,713,887	51,174,859
	1930	6,803,846	68	32	21,977,688	40,915,395
	1931	5,549,103	44	22	9,513,931	22,535,573
	1932	4,340,158	75	29	7,075,393	19,700,235
	1933	4,030,778	109	47	13,976,368	25,007,137
	1934	5,087,334	145	69	20,243,278	33,895,930
	1935	4,916,149	177	72	25,407,914	40,597,569
	1936	4,456,521	168	70	29,975,608	43,666,452
	1937	6,145,254	185	113	44,762,860	62,912,783
North-western	**1938**	**418,838**	**9**	**6**	**2,755,135**	**3,189,318**
North-eastern	**1938**	**149,893**	**10**	**3**	**3,013,420**	**2,187,595**
South Central	**1938**	**1,522,067**	**65**	**32**	**5,126,222**	**6,561,759**
South-eastern	**1938**	**2,731,708**	**101**	**39**	**15,739,441**	**31,503,859**
South-western	**1938**	**2,554,585**	**26**	**12**	**9,124,804**	**10,434,802**
Totals	**1938**	**7,377,091**	**211**	**92**	**$35,759,022**	**$53,877,333**

TABLE XX.—MEN EMPLOYED IN THE MINING INDUSTRY OF BRITISH COLUMBIA, 1901–1938.

District.	Year.	Placer-mining.	Lode-mining.			In Concentrators.	In Smelters.	Coal-mining.			Structural Materials.		Miscellaneous.	Total.
			Under.	Above.	Total.			Under.	Above.	Total.	Quarries and Pits.	Plants.		
	1901	.....	2,736	1,212	3,948	.....	.....	3,041	931	3,974	.....	.....	.....	7,922
	1902	.....	2,219	1,126	3,345	.....	.....	3,101	910	4,011	.....	.....	.....	7,356
	1903	.....	1,662	1,088	2,750	.....	.....	3,137	1,127	4,264	.....	.....	.....	7,014
	1904	.....	2,143	1,163	3,306	.....	.....	3,278	1,175	4,453	.....	.....	.....	7,759
	1905	.....	2,470	1,240	3,710	.....	.....	3,127	1,280	4,407	.....	.....	.....	8,117
	1906	.....	2,680	1,303	3,983	.....	.....	3,415	1,390	4,805	.....	.....	.....	8,788
	1907	.....	2,704	1,239	3,943	.....	.....	2,862	907	3,769	.....	.....	.....	7,712
	1908	.....	2,567	1,127	3,694	.....	.....	4,432	1,641	6,073	.....	.....	.....	9,767
	1909	.....	2,184	1,070	3,254	.....	.....	4,713	1,705	6,418	.....	.....	.....	9,672
	1910	.....	2,472	1,237	3,709	.....	.....	5,903	1,855	7,758	.....	.....	.....	11,467
	1911	.....	2,435	1,159	3,594	.....	.....	5,212	1,661	6,873	.....	.....	.....	10,467
	1912	.....	2,472	1,364	3,837	.....	.....	5,275	1,855	7,130	.....	.....	.....	10,967
	1913	.....	2,773	1,505	4,278	.....	.....	4,950	1,721	6,671	.....	.....	.....	10,949
	1914	.....	2,741	1,433	4,174	.....	.....	4,267	1,465	5,732	.....	.....	.....	9,906
	1915	.....	2,709	1,435	4,144	.....	.....	3,708	1,283	4,991	.....	.....	.....	9,135
	1916	.....	3,357	2,036	5,393	.....	.....	3,694	1,366	5,060	.....	.....	.....	10,453
	1917	.....	3,290	2,198	5,488	.....	.....	3,760	1,410	5,170	.....	.....	.....	10,658
	1918	.....	2,626	1,764	4,390	.....	.....	3,658	1,769	5,247	.....	.....	.....	9,637
	1919	.....	2,513	1,746	4,259	.....	.....	4,145	1,821	5,966	.....	.....	.....	10,225
	1920	.....	2,074	1,605	3,679	.....	.....	4,191	2,158	6,349	.....	.....	.....	10,028
	1921	.....	1,355	975	2,330	.....	.....	4,722	2,163	6,885	.....	.....	.....	9,215
	1922	.....	1,510	1,239	2,749	.....	.....	4,712	1,932	6,644	.....	.....	.....	9,393
	1923	.....	2,102	1,516	3,618	.....	.....	4,342	1,807	6,149	.....	.....	.....	9,767
	1924	.....	2,353	1,680	4,033	.....	.....	3,894	1,524	5,418	.....	.....	.....	9,451
	1925	.....	2,298	2,840	5,138	.....	.....	3,828	1,615	5,443	.....	.....	.....	10,581
	1926	299	2,606	1,735	4,341	808	2,461	3,757	1,565	5,322	493	324	124	14,172
	1927	415	2,671	1,916	4,587	854	2,842	3,646	1,579	5,225	647	138	122	14,830
	1928	355	2,707	2,469	5,176	911	2,748	3,814	1,520	5,334	412	368	120	15,424
	1929	341	2,926	2,052	4,978	966	2,948	3,675	1,353	5,028	492	544	268	15,565
	1930	425	2,316	1,260	3,576	832	3,197	3,389	1,256	4,645	843	344	170	14,032
	1931	688	1,463	834	2,297	581	3,157	2,957	1,125	4,082	460	526	380	12,171
	1932	874	1,355	900	2,255	542	2,036	2,628	980	3,608	536	329	344	10,524
	1933	1,134	1,786	1,335	3,121	531	2,436	2,241	853	3,094	376	269	408	11,369
	1934	1,122	2,796	1,729	4,525	631	2,890	2,050	843	2,893	377	187	360	12,985
	1935	1,291	2,740	1,497	4,237	907	2,771	2,145	826	2,971	536	270	754	13,737
	1936	1,124	2,959	1,840	4,799	720	2,678	2,015	799	2,814	931	288	825	14,179
	1937	1,371	3,603	1,818	5,421	1,168	3,027	2,286	867	3,153	724	327	938	16,129
North-western	1938	275	393	287	680	82	.....	.....	.....	.....	36	4	17	1,094
North-eastern	1938	671	347	203	550	26	.....	10	3	13	30	.....	10	1,300
South Central	1938	97	603	352	955	282	.....	271	142	413	111	29	.....	1,887
South-eastern	1938	96	1,189	595	1,784	362	3,158	467	226	693	136	56	110	6,395
South-western	1938	164	1,317	829	2,146	167	.....	1,340	503	1,843	587	206	232	5,345
Totals	1938	1,303	3,849	2,266	6,115	919	3,158	2,088	874	2,962	900	295	369	16,021

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1938.

Mine or Group.	Location of Mine or Mill.	Owner or Agent.	Rated Daily Capacity. 1937.	Rated Daily Capacity. 1938.	Operating at.	Date of First Operation.	Process.	Character of Ore.
			Tons.	Tons.	Tons.			
Polaris-Taku	Taku River (Tulsequah)	Polaris-Taku Mining Co., Ltd., Tulsequah	150	150	100	Nov., 1937	Flotation	Gold.
Big Missouri	Stewart (Salmon River)	Buena Vista Mining Co., Ltd., Trail	750	750	500	Mar., 1938	Flotation; cyanidation	Gold.
Dolly Varden	Alice Arm	T. W. Falconer, Alice Arm						Silver, gold, lead.
Granby Point	Anyox	Karl Eklund, leaser, Anyox						Silver, gold, lead.
Mountain Boy	American Creek	B. T. McDonald, Stewart						Silver, copper.
Silbak Premier	Stewart	Silbak Premier Mines, Ltd., Premier	500	500	500	July, 1922	Flotation	Gold, silver, lead.
Surf Inlet	Surf Inlet	Surf Inlet Cons. Gold Mines, Ltd., Vancouver	75	50	50	Aug., 1937	Table concentration; flotation	Gold, silver, copper.
Surf Point	Porcher Island	Reward Mining Co., Ltd., Vancouver	25	25	*50	July, 1933	Flotation	Gold, silver.
Sampling Plant	Prince Rupert	British Columbia Department of Mines, Prince Rupert				1937		Gold, silver, copper, lead, zinc.
Cariboo Gold	Wells	Cariboo Gold Quartz Mining Co., Ltd., Vancouver	275	300	300	Jan., 1938	Cyanidation	Gold, silver.
Cariboo Hudson	Wells	Cariboo Hudson Gold Mines, Ltd., Vancouver		100	100	Sept., 1938	Cyanidation	Gold, silver.
Island Mountain	Wells	Island Mountain Mines, Ltd., Wells	110	110	110	Nov., 1934	Cyanidation	Gold, silver.
Copper King	Kamloops	McKelvie Bros., Kamloops		30	*25	1938	Concentration	Gold, silver, copper.
Windpass	Dunn Lake	Windpass Gold Mining Co., Ltd., Vancouver	50	50	†50	Mar., 1934	Flotation	Gold, silver, copper.
Iron Cap	Kamloops	D. B. Sterrett, Savona						Gold, silver, copper.
Thelma	Nicola	Sheffield Gold and Silver Mines, Ltd., Vancouver						Silver, lead, zinc.
Kalamalka	Lavington	Kalamalka Gold Mines, Ltd., Vernon						Gold, silver.
Okanagan Mines Syndicate	Vernon	C. Penny and S. Heidler, Vernon						Gold, silver, lead, zinc.
Athelstan	Grand Forks	W. E. McArthur, Greenwood						Gold, silver.
Buckingham	Greenwood	A. F. Mason, Grand Forks						Gold, silver, lead, zinc.
City of Paris	Grand Forks	H. M. Brinkman, Grand Forks						Gold, silver, lead, zinc.
Gold Medal	Grand Forks	M. Kabatoff, Grand Forks						Gold, silver.
Inland Empire	Paulson	Inland Empire Mines Syndicate, Trail						Gold, silver.
B.C.	Denoro	A. Docksteader and E. Vant, Grand Forks						Silver, copper.
Molly Gibson	Paulson	Molly Gibson Mines, Ltd., Calgary, Alta.						Gold, silver.
Little Bertha	Grand Forks	D. C. Manly, Box 230, Grand Forks						Gold, silver.
F. Simpson	Grand Forks	F. Simpson, Grand Forks						Silver, copper.
Superior	Grand Forks	Donald McCullum, Grand Forks						Gold, silver.
Union	Granby River	Leasers from J. F. McCarthy, Wallace, Idaho						Gold, silver, lead, zinc.
Yankee Boy	Grand Forks	Riegel Mines, Ltd., Grand Forks						Gold, silver.

* Intermittent. † Idle at present.

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1938—*Continued.*

Mine or Group.	Location of Mine or Mill.	Owner or Agent.	Rated Daily Capacity.		Operating at	Date of First Operation.	Process.	Character of Ore.
			1937.	1938.				
			Tons.	Tons.	Tons.			
Bank of England	Greenwood	Robert Forshaw, Greenwood						Gold, silver.
Barnato	Kettle River	J. H. Redden, Caulfeild; F. O. Peterson, Westbridge						Gold, silver.
Brooklyn	Greenwood	W. E. McArthur, Greenwood						Gold, silver, copper.
Granby	Phoenix	W. E. McArthur, Greenwood	50	50	*50	Sept., 1936	Flotation	Gold, silver, copper.
Number Seven	Boundary Falls	W. E. McArthur, Greenwood						Gold, silver, lead.
Beaver	Greenwood	Hilmer Nordman, leaser, Beaverdell						Silver, lead, zinc.
Carmi	Greenwood	J. Kerr, Carmi						Gold, silver.
Crescent	Greenwood	Leasers, Greenwood						Gold, silver, lead, zinc.
Dentonia	Greenwood	Robert Lee *et al.*, Greenwood	100			April, 1934	Flotation; cyanidation	Gold, silver, lead, zinc.
Dynamo	Greenwood	Jerome McDonell, Greenwood						Gold, silver, lead.
Gold Drop	Jewel Lake	L. Bosshart and leasers, Greenwood						Gold, silver.
Gold Nugget	Greenwood	C. G. Dodd, Greenwood						Gold, silver.
Highland Bell	Greenwood	Highland Bell, Ltd., Penticton						Gold, silver, lead, zinc.
Highland Chief	Greenwood	Highland Chief Mines, Ltd., Kelowna						Silver, lead.
Keno	Greenwood	S. Bombini, Greenwood						Gold, silver, lead.
Midnight Group	Beaverdell	Dr. W. T. Hoyes, Beaverdell						Gold, silver, lead.
O.K. Group	Triple Lakes	S. Peterson, Westbridge						Gold, silver.
Kettle Valley	Grand Forks	George Mehmal, Grand Forks						Gold, silver.
Lyon-Advance	Beaverdell	Lyon-Advance Syndicate, Penticton						Silver, lead, zinc.
Maybe	Crick (Trapper) Creek	S. Bergland, Westbridge						Gold, silver.
Mogul	Greenwood	C. Sherdahl and S. Bergland, Westbridge						Gold, silver.
North Star	Jewel Lake	Greenbridge Gold Mines, Ltd., Calgary, Alta.						Gold, silver.
Providence	Greenwood	Riegel Mines, Ltd., Grand Forks						Gold, silver, lead, zinc.
Rambler	Beaverdell	J. J. Kennedy, Beaverdell						Silver, lead, zinc.
Rico	Greenwood	Robert Cheyne, Kelowna						Silver, lead, zinc.
Rosemont	Beaverdell	W. R. Fowler, Beaverdell						Gold, silver.
Sally	Beaverdell	Sally Mines, Ltd., Penticton						Gold, silver, lead, zinc.
Tiger	Beaverdell	J. S. Nordman and Partner, Beaverdell						Silver, lead, zinc.
Wellington	Beaverdell	Beaverdell-Wellington Syndicate, Greenwood						Gold, silver, lead, zinc.
Winner	Greenwood	J. Price *et al.*, Greenwood						Gold, silver.
Winnipeg	Greenwood	Donald McDonald, leaser, Greenwood						Gold, silver, copper.
Brown Bear	Oliver	W. Dalrymple and L. Hozier, Oliver						Gold, silver.
Fairview Amalgamated	Osoyoos	Fairview Amalgamated Gold Mines, Ltd., Vancouver	150	150	150	Aug., 1935	Amalgamation; blanket-tables; flotation	Gold, silver, copper, lead.

* Intermittent.

Gold Standard	Oro Fino Mountain	Gold Standard (Fairview) Mining Co., Ltd., Penticton						Gold, silver.
Grandoro	Oliver	J. P. Wukelick, leaser, Penticton	40	40	*35	Jan., 1935	Amalgamation; cyanidation	Gold, silver.
Green Mountain	Penticton	Eric Bresser, Penticton						Gold, silver.
Osoyoos	Osoyoos	Osoyoos Mines of Canada, Ltd., Calgary, Alta.	50	75	75	Mar., 1936	Table concentration; flotation; cyanidation	Gold, silver, copper.
Mak Siccar	Osoyoos	Whitehead and Davidoff, Grand Forks						Gold, silver.
Hedley Mascot	Hedley	Hedley Mascot Mines, Ltd., Vancouver	170	175	175	May, 1936	Flotation	Gold, silver, copper.
Kelowna Exploration	Hedley	Kelowna Exploration Co., Ltd., Hedley	200	250	250	Sept., 1934	Cyanidation; flotation	Gold, silver, copper.
Twin Lakes	Osoyoos	Gold Standard (Fairview) Mining Co., Ltd., Penticton						Gold, silver.
Copper Mountain	Allenby	Granby Con. M.S. and Power Co., Vancouver	3,000	3,000	3,000	1920‡	Flotation	Copper, silver, gold.
Hamilton Bros.	Rabbit Mountain	Hamilton Bros., Tulameen						Gold, silver.
Silver Moon	Princeton	E. Michel *et al.*, Princeton						Gold, silver.
Caledonia	Blaylock	Geo. E. McCready, Retallack						Silver, lead.
Dardanelles		S. N. Ross, Nelson						Silver, lead, zinc.
Charleston	Retallack	A. J. Harris, Kaslo						Silver, lead, zinc.
Eureka	Kaslo (Lyle Creek)	Roy Wallace, Walla Walla, Washington						Gold, silver.
Highland Surprise	Retallack	Highland Surprise Gold Mines, Ltd., Vancouver						Gold, silver.
Kilo	Lemon Creek	H. V. Dewis, Silverton						Gold, silver, lead, zinc.
G. & S.	Woodberry Creek	C. E. Gordon, Kaslo						Gold, silver, lead, zinc.
Lucky Boy	Kaslo	Charles Lind, Jr., Kaslo						Silver, lead, zinc.
St. Patrick	Argenta	Mrs. J. Brochier, Kaslo						Silver, lead, zinc.
Silver Coin	Woodberry Creek	Stanley MacLennan *et al.*, Ainsworth						Silver, lead, zinc.
Silver Horn	Ainsworth	O. H. Giegerich, Kaslo						Silver, lead, zinc.
Revenue	Sturgis Creek	H. E. Singel, Kaslo						Silver, lead, zinc.
Paladoro	Edgewood	S. P. Pond, Nelson						Gold, silver.
Golden Egg	Sawmill Creek	J. J. Rollheiser, Kimberley						Gold, silver.
Midway	Moyie	T. M. Leask, Moyie						Gold, silver, lead, zinc.
Sullivan	Kimberley	Consolidated Mining & Smelting Co. of Canada, Ltd., Trail	6,000	6,000	6,000	Aug., 1923	Flotation	Silver, lead, zinc.
New True Fissure	Ferguson	New True Fissure Mining and Milling Co., Ltd., Windsor, Ont.	50	50	*50	Oct., 1937	Flotation	Gold, silver, lead, zinc.
Winslow	Trout Lake	W. G. Wilkins and W. J. Scorgie, Penticton						Gold, silver.
Athabasca	Nelson	Noble Five Mines, Ltd., Nelson						Gold, silver, lead, zinc.
Arlington	Erie Creek	R. O. Oscarson, leaser, Erie						Gold, silver, lead, zinc.
Bayonne	Tye	Bayonne Consolidated Mines, Ltd., Vancouver	50	50	†50	Nov., 1936	Cyanidation	Gold, silver.
Bear	Hall Creek	R. E. Crerar, Nelson						Gold, silver.
Black Cock	Ymir	Rod McNeill *et al.*, Ymir						Gold, silver, lead, zinc.
Bunker Hill	16-Mile Creek	R. G. Hall, Aberdeen, Washington						Gold, silver.
California	Nelson	Alex. Poelzer *et al.*, Verner H. Garras, and R. H. Kline, Nelson						Gold, silver, lead, zinc.
Cartref	Nelson	R. Nelson *et al.*, Trail						Gold, silver, lead.

* Intermittent. † Idle at present. ‡ Resumed in July, 1937.

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1938—*Continued.*

Mine or Group.	Location of Mine or Mill.	Owner or Agent.	Rated Daily Capacity.		Operating at.	Date of First Operation.	Process.	Character of Ore.
			1937.	1938.				
			Tons.	Tons.	Tons.			
Clubine Comstock	Boulder Creek	Clubine Comstock Gold Mines, Ltd., Nelson	----	----	----	----	----	Gold, silver.
Davne	Salmo	Currie and Hawes, Nelson	----	----	----	----	----	Gold, silver, lead, zinc.
Daylight	Nelson	Peter Rolick, Nelson	----	----	----	----	----	Gold, silver.
Howard	Nelson	Durango Mines, Ltd., Vancouver	100	100	†100	1937	Flotation	Gold, silver, lead, zinc.
Excelsior	Ymir	Philip Heay, Ymir	----	----	----	----	----	Gold, silver.
Good Hope	Bird Creek	L. P. Gormley, Nelson	----	----	----	----	----	Gold, silver.
Gold Belt	Sheep Creek	Gold Belt Mining Co., Ltd., Vancouver	----	100	100	1938	Cyanidation	Gold, silver.
Gold Crown	Nelson	R. Reese *et al.*, Nelson	----	----	----	----	----	Gold, silver.
Granite Poorman	Taghum	Livingstone Mining Co., Ltd., Blewett	30	30	30	Sept., 1934	Amalgamation; cyanidation	Gold, silver.
Harriet	Erie	S. A. Curwen and J. Turk, Ymir	----	----	----	----	----	Gold, silver.
Keystone	Erie	Dufferin Golds, Ltd., Vancouver	----	----	----	----	----	Gold, silver, lead, zinc.
Kootenay Belle	Sheep Creek	Kootenay Belle Gold Mines, Ltd., Vancouver	100	100	100	Oct., 1934	Cyanidation	Gold, silver.
Kootenay Ore Hill	Sheep Creek	H. D. Forman, Salmo; Joe Gallo, Nelson	15	15	*15	Dec., 1936	Concentration	Gold, silver, lead, zinc.
Lone Silver	Salmo	Lone Silver Gold Mines, Ltd., Vancouver	----	----	----	----	----	Gold, silver, lead, zinc.
Lucky Dick	Ymir	B. Price *et al.*, Ymir	----	----	----	----	----	Gold, silver.
Myrtle	Ymir	H. Brown, Ymir	----	----	----	----	----	Gold, silver.
Nugget-Motherlode	Salmo	A. Endersby, Sr. and Jr., Sheep Creek	----	----	----	----	----	Gold, silver.
Relief Arlington	Erie	Relief Arlington Mines, Ltd., Erie	75	75	75	1933	Amalgamation; flotation; cyanidation	Gold, silver.
Reno	Sheep Creek	Reno Gold Mines, Ltd., Vancouver	120	120	120	Dec., 1932	Cyanidation	Gold, silver.
Royal Canadian	Nelson	C. E. Crossley, Nelson	----	----	----	----	----	Gold, silver.
Sheep Creek	Sheep Creek	Sheep Creek Gold Mines, Ltd., Vancouver	150	150	150	May, 1935	Cyanidation	Gold, silver.
Spokane	Tye	R. M. and K. K. Laib, Bayonne	----	----	----	----	----	Gold, silver, lead, zinc.
Summit Group	Salmo	H. D. Forman, Salmo	----	----	----	----	----	Gold, silver, lead, zinc.
Twilight	Nelson	A. D. Papazian and T. L. Paris, Nelson	----	----	----	----	----	Gold, silver, lead.
C. Peterson		C. Peterson, Nelson	----	----	----	----	----	Gold.
Venus Juno	Nelson	R. Heddle, Nelson	----	----	----	----	----	Gold, silver.
Virginia	Bayonne	J. W. Mulholland, Nelson	----	----	----	----	----	Gold, silver.
Centre Star	Ymir	Wesko Mines, Ltd., Nelson	100	100	†100	Oct., 1936	Flotation; cyanidation	Gold, silver, lead, zinc.
Wilcox	Ymir	Wilcox Mines Syndicate, Ymir	20	20	*20	1933	Amalgamation	Gold, silver, lead, zinc.
Ymir (Old Mill Site)	Ymir	Ymir Mill Leasing Syndicate, Nelson	----	----	----	----	----	Gold, silver, lead, zinc.
Ymir Consolidated	Ymir	Ymir Consolidated Gold Mines, Ltd., Vancouver	100	100	100	July, 1935	Amalgamation; flotation	Gold, silver, lead, zinc.
Yankee Girl	Ymir	Ymir-Yankee Girl Gold Mines, Ltd., Vancouver	100	100	100	Dec., 1934	Cyanidation; flotation	Gold, silver, lead, zinc.
Alpha	Silverton	Leasers from Western Exploration Co., Silverton	----	----	----	----	----	Silver, lead, zinc.
Bosun	New Denver	Leasers, New Denver	----	----	----	----	----	Silver, lead, zinc.
Canadian	Sandon	A. H. Upton, Sandon	----	----	----	----	----	Gold, silver, lead, zinc.

Capella	New Denver	C. Stedile, New Denver						Gold, silver, lead, zinc.
Chicago	Sandon	S. Sibileau, Sandon						Gold, silver, lead, zinc.
Hewitt	Silverton	Galena Farm Consolidated Mines, Ltd., leasers						Silver, lead, zinc.
Lucky Jim	Zincton	Lucky Jim Lead and Zinc Co., Ltd., Vancouver	200	200	*200	1927	Concentration; flotation	Zinc.
Metallic	Silverton	Evart A. Erikson, Silverton						Silver, lead, zinc.
Molly Hughes	New Denver	Slocan Idaho Mines Corp., 509 Hutton Bldg., Spokane						Silver, lead, zinc.
Monitor	Three Forks	Slocan Monitor Mines, Ltd., Nelson						Gold, silver, lead, zinc.
McAllister	Three Forks	George Allen, New Denver						Gold, silver.
Noble Five	Cody	Noble Five Mines, Ltd., Nelson						Silver, lead, zinc.
Noonday	Silverton	Evart A. Erikson, Silverton						Silver, lead, zinc.
Number One	Sandon	J. M. Harris and F. T. Kelly, Sandon						Silver, lead, zinc.
Palmita	Alamo	C. Cunningham, Alamo						Silver, lead, zinc.
Payne	Sandon	J. P. Wilson estate, Sandon						Silver, lead, zinc.
Ruth-Hope	Sandon	Leasers from Ruth-Hope Mining Co., Ltd., Vancouver						Silver, lead, zinc.
Silver Ridge	Sandon	Silver Ridge Mining Co., Ltd., Sandon						Silver, lead, zinc.
Sovereign	Alamo	Leasers, E. J. Vandergrift, agent, New Denver						Silver, lead, zinc.
Victor	Sandon	E. Doney, lessee, Sandon						Gold, silver, lead, zinc.
Arlington	Slocan City	H. E. Scovil, Slocan City						Gold, silver, lead, zinc.
Bell	Slocan City	W. E. Graham and Pat Maguire, G. Larson *et al.*, Slocan City						Gold, silver.
Get There Eli	Slocan City	G. Larson *et al.*, Slocan City						Gold, silver.
Goldstream	Lemon Creek	Charles Ritchie, Slocan City						Gold, silver.
Howard Fraction	Slocan City	H. L. Harbour, Slocan City						Gold, silver.
Hummingbird	Slocan City	Charles Lundstrom and E. Hammerer, Slocan City						Gold, silver, lead, zinc.
L.T.	Springer Creek	D. B. O'Neail, Slocan City						Gold, silver.
Lakeview	Slocan City	Ross Basic *et al.*, Nelson; E. H. Kinder *et al.*, Slocan City						Gold, silver, lead, zinc.
Meteor	Slocan City	G. Larson *et al.*, Slocan City						Gold, silver.
Marmion & Maryland	Slocan City	W. J. Ternan *et al.*, Trail						Gold, silver.
Ottawa	Spring Creek	Leasers, Ottawa Silver Mining & Smelting Co., 401 Sherwood Bldg., Spokane, Washington	100	100	†100	1937	Concentration	Silver, lead, zinc.
Paris Fraction	Slocan City	G. Larson *et al.*, Slocan City						Gold, silver.
Vertical	Slocan City	A. G. Ewing, Slocan City						Gold, silver, lead, zinc.
Cariboo Group	Rossland	John Tomich, Rossland						Gold, silver.
Evening Star	Rossland	James Barnes and H. D. Griswold, Rossland						Gold, silver.
Gold Drip	Rossland	Charles Ritchie, Rossland						Gold, silver.
Golden Eagle	Rossland	Ole Osing, Rossland						Gold, silver.
I.X.L.	Rossland	I.X.L. Lessors, Ltd., Rossland						Gold, silver.
Jumbo	Rossland	J. C. Martin, Box 265, Cheney, Wash.						Gold, silver.

* Intermittent. † Idle at present.

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1938—*Continued.*

Mine or Group.	Location of Mine or Mill.	Owner or Agent.	Rated Daily Capacity.		Operating at.	Date of First Operation.	Process.	Character of Ore.
			1937.	1938.				
			Tons.	Tons.	Tons.			
Midnight	Rossland	Midnight Mining Co., Rossland						Gold, silver.
O.K.	O.K. Mountain	O.K. Leasing Co., Box 522, Rossland						Gold, silver.
Rossland Properties	Rossland	Leasers from Cons. Mining & Smelting Co., Trail						Gold, silver, copper.
Thistle	Alberni	United Prospectors, Ltd., Victoria						Gold, copper.
Abco	Ahousat	Abco Mines, Ltd., Vancouver						Gold, silver.
Central Zeballos	Zeballos	Central Zeballos Gold Mines, Ltd., Vancouver						Gold, silver.
Danzig	Nootka	Danzig Mines, Ltd., Seattle, Wash.						Gold, silver.
Man-O-War	Zeballos	Man-O-War Mines, Ltd., Victoria						Gold, silver.
Privateer	Zeballos	Privateer Mine, Ltd., Victoria		75	75	Sept., 1938	Cyanidation; concentration	Gold, silver.
Rey Oro	Zeballos	Rey Oro Gold Mining Corp., Ltd., Vancouver		10	*10	1938	Cyanidation; concentration	Gold, silver.
Sidney Inlet	Sidney Inlet	Sidney Inlet Mining Co., Ltd., Vancouver		150	†150	1938	Flotation	Copper, silver, gold.
Spud Valley	Zeballos	Spud Valley Gold Mines, Ltd., Vancouver		50	50	1938	Cyanidation; concentration	Gold, silver.
White Star	Zeballos	White Star Mine, Ltd., Vancouver						Gold, silver.
Vidette	Savona	Vidette Gold Mines, Ltd., Vancouver	60	60	60	Dec., 1933	Flotation	Gold, silver, copper.
Bralorne	Bridge River	Bralorne Mines, Ltd., Vancouver	475	475	475	Feb., 1932	Amalgamation; flotation	Gold, silver.
B.R.X.	Bridge River	B.R.X. (1935) Mines, Ltd., Vancouver		125	110	May, 1938	Cyanidation	Gold, silver.
Jewel	Roxey Creek	Jewel Prospectors Synd., 829 Pender Street West, Vancouver						
Pioneer	Bridge River	Pioneer Gold Mines of B.C., Ltd., Vancouver	300	425	300	Feb., 1928	Cyanidation	Gold, silver.
Emancipation	Yale	Dawson Consolidated, Ltd., Vancouver						Gold, silver.
Aufeas	Hope	H. L. Wood, Hope						Gold, silver, copper.
Crown Gold	Nanaimo Lakes	Crown Gold Mining Syndicate, Victoria						Gold.
Dillon	Shoal Bay	Dillon Mining Trust, Shoal Bay						Gold, silver, copper.
Fagan	Shoal Bay	J. J. Fagan, Shoal Bay						Gold, silver, copper.
Seccondee	Vananda	Seccondee Gold Mining and Milling Syndicate, Vananda						Gold, silver, copper.
Sundt	Thurlow	Tom Sundt, Thurlow						Gold, silver, copper.
Ashloo	Squamish	Ashloo Gold Mines, Ltd., Vancouver	25	25	*25	Sept., 1936	Table concentration; flotation	Gold, silver, copper.
Britannia	Britannia Beach	Britannia Mining and Smelting Co., Ltd., Britannia Beach	6,000	6,000	6,000	Jan., 1923	Flotation	Copper, gold, silver.
Coles		W. C. Coles, Vancouver						Gold, silver, copper.
Ralph	Goldstream	W. J. Davey, Victoria						Silver, copper.

* Intermittent. † Idle at present.

TABLE XXII.—Mining Companies employing an Average of Ten or more Men during 1938.

Shipping Mines.

Name of Mine or Company.	Days Operating.		Tonnage.		Average Number of Men.	
	Mine.	Mill.	Mined.	Milled.	Mine.	Mill.
Polaris-Taku Mining Co., Ltd.	362	364	52,679	58,759	110	7
Buena Vista Mining Co., Ltd. (Big Missouri)	333	282	154,387	154,387	103	28
Silbak Premier Mines, Ltd.	312	348	184,606	184,606	300	30
Reward Mining Co., Ltd. (Surf Point)	166	166	11,520	3,511	13	5
Surf Inlet Consolidated Gold Mines, Ltd.	312	348	20,281	17,428	49	12
Cariboo Gold Quartz Mining Co., Ltd.	313	365	102,541	102,539	296	13
Cariboo Hudson Gold Mines, Ltd.	365	47	2,438	2,438	66	2
Island Mountain Mines, Ltd.	365	365	44,916	44,916	97	9
Windpass Gold Mining Co., Ltd.	365	365	19,049	19,059	60	6
Brooklyn (W. E. McArthur)	352	269	12,887	12,775	14	7
Highland-Bell, Ltd.	291	.....	5,100	.....	30	.....
Wellington (Beaverdell-Wellington Syndicate)	299	.....	647	.....	23	.....
Fairview Amalgamated Gold Mines, Ltd.	363	363	46,810	46,060	44	7
Hedley Mascot Gold Mines, Ltd.	334	356	63,868	63,868	60	18
Kelowna Exploration Co., Ltd. (Nickel Plate)	330	365	88,697	88,636	118	59
Osoyoos Mines of Canada, Ltd.	365	365	20,639	20,639	36	11
Granby Cons. Mining, Smelting & Power Co., Ltd.	328	362	1,223,492	1,223,212	356	176
Cons. M. & S. Co. of Canada, Ltd. (Sullivan)	300	350	2,286,740	2,272,890	701	241
New True Fissure Mining & Milling Co., Ltd.	90	90	3,079	298	10	4
Bayonne Cons. Mines, Ltd. (Bayonne)	365	365	19,298	19,298	58	9
Clubine Comstock Gold Mines, Ltd.	365	.....	851	.....	11	.....
Gold Belt Mining Co., Ltd.	350	66	9,844	9,844	51	2
Kootenay Belle Gold Mines, Ltd.	316	365	48,238	48,238	106	10
Livingstone Mining Co., Ltd. (Granite-Poorman)	170	170	1,351	1,351	11	1
Relief Arlington Mines, Ltd.	365	365	45,918	29,367	82	22
Reno Gold Mines, Ltd.	365	365	48,885	49,158	98	20
Sheep Creek Gold Mines, Ltd.	339	361	53,728	53,728	88	9
Wesko Mines, Ltd.	240	202	15,096	15,096	24	8
Ymir Consolidated Gold Mines, Ltd.	354	354	16,394	13,978	30	4
Ymir-Yankee Girl Gold Mines, Ltd.	365	365	42,565	42,718	77	14
Durango Gold Mines, Ltd.	.....	.....	42,500*	42,500	35	5
Rossland Properties (C. M. & S.)	.....	.....	9,633	.....	100	.....
Central Zeballos Gold Mines, Ltd.	365	.....	31	.....	28	.....
Man-O-War Mines, Ltd.	365	.....	19	.....	12	.....
Privateer Mine, Ltd.	365	98	45,389	7,234	91	6
Sidney Inlet Mining Co., Ltd.	180	150	17,000	15,500	37	2
Spud Valley Gold Mines, Ltd.	365	37	1,917	1,917	49	1
Vidette Gold Mines, Ltd.	365	308	6,683	6,732	62	3
Bralorne Mines, Ltd.	365	365	180,526	180,526	357	18
B.R.X. (1935) Consolidated Mines, Ltd.	287	86	4,787	4,787	33	2
Pioneer Gold Mines of B.C., Ltd.	309	365	142,775	143,175	257	27
Ashloo Gold Mines, Ltd.	236	223	5,012	5,012	14	5
Britannia Mining & Smelting Co., Ltd.	365	353	2,206,992	2,206,992	1,067	101

Non-shipping Mines.

Cons. Mining & Smelting Co. (Anyox)	360	.....	.....	.....	86	.....
Cons. Mining & Smelting Co. (Croydon and Vega)	309	.....	.....	.....	11	.....
Snowshoe Gold Mines, Ltd.	240	.....	.....	.....	14	.....
Quesnel Quartz Mining Co., Ltd.	360	.....	.....	.....	17	2
Cons. Nicola Goldfields, Ltd.	360	.....	.....	.....	23	.....
Canty Gold Mines (Hedley), Ltd.	360	.....	.....	.....	35	.....
Red Buck Mines, Ltd.	.....	.....	.....	.....	20	.....
Western Exploration Co., Ltd.	360	.....	.....	.....	17	.....
Base Metals Mining Corporation, Ltd.	307	.....	.....	.....	25	.....

* Estimated.

SYNOPSIS OF MINING LAWS OF BRITISH COLUMBIA.

Mineral Act and Placer-mining Act.

The mining laws of British Columbia are very liberal in their nature and compare favourably with those of any other part of the world. The terms under which both lode and placer claims and placer leaseholds are held are such that a prospector is greatly encouraged in his work, and the titles, especially for mineral claims and placer-mining leaseholds, are perfect. The fees required to be paid are as small as possible, consistent with a proper administration of the mining industry, and are generally lower than those commonly imposed elsewhere. Provision is also made for the formation of mining partnerships practically without expense, and a party of miners is enabled to take advantage of these sections of the Acts so that such miners may work their claims jointly.

Placer-mining leases are granted for a period of twenty years and are approximately 80 acres in size. On a lode claim of 51 acres the expenditure of $500 in work, which may be spread over five years, is required to obtain a Crown grant, and surface rights are obtainable at a small figure, in no case exceeding $5 per acre.

The following synopsis of the mining laws will be found sufficient to enable the miner or intending investor to obtain a general knowledge of their scope and requirements; for particulars, however, the reader is referred to the Acts relating to mining, which may be obtained from any Mining Recorder, or from the Department of Mines or the King's Printer, Victoria, B.C.

Free Miners' Certificates.

Any person over the age of 18, and any joint-stock company, may obtain a free miner's certificate on payment of the required fee.

The fee to an individual for a free miner's certificate is $5 for one year. To a joint-stock company having a capital of $100,000, or less, the fee for a year is $50; if capitalized beyond this, the fee is $100.

The free miners' certificates run from date of issue and expire on the 31st day of May next after its date, or some subsequent 31st day of May (that is to say, a certificate may be taken out a year or more in advance if desired). Certificates may be obtained for any part of a year, terminating on May 31st, for a proportionately less fee.

The possession of this certificate entitles the holder to enter upon all lands of the Crown, and upon any other lands on which the right to so enter is not specially reserved, for the purpose of prospecting for minerals, locating claims, and mining.

A free miner can hold, by location, during any period of twelve months, eight mineral claims within a radius of 10 miles, and may acquire others by purchase. Under the "Placer-mining Act," a free miner may locate, in any period of twelve consecutive months, one placer claim or leasehold in his own name and one placer claim or leasehold for each of three free miners for whom he acts as agent, on any separate creek, river-bed, bar or dry diggings. Other placer claims or leaseholds may be acquired by purchase.

In the event of a free miner allowing his certificate to lapse, his mining property (if not Crown-granted) reverts to the Crown (subject to the conditions set out in the next succeeding paragraph), but where other free miners are interested as partners or co-owners the interest of the defaulter becomes vested in the continuing co-owners or partners *pro rata*, according to their interests.

Six months' extension of time within which to revive title in mining property which has been forfeited through the lapse of a free miner's certificate is allowed. This privilege is given only if the holder of the property obtains a special free miner's certificate within six months after the 31st of May on which his ordinary certificate lapsed. The fee for this special certificate in the case of a person is $15 and in that of a company $300.

It is not necessary for a shareholder, as such, in an incorporated mining company to be the holder of a free miner's certificate.

Mineral Claims.

Mineral claims are located and held under the provisions of the "Mineral Act."

A mineral claim is a piece of land not exceeding in area fifty-one and sixty-five one-hundredths acres. The angles must be right angles unless the boundaries, or one of them, are the same as those of a previously recorded claim.

No special privileges are allowed for the discovery of new mineral claims or districts.

A mineral claim is located by erecting two "legal posts," which are stakes having a height of not less than 4 feet above ground and squared 4 inches at least on each face for not less than a foot from the top. A tree-stump so cut and squared also constitutes a legal post. A cairn of stones not less than 4 feet in height and not less than 1 foot in diameter 4 feet above the ground may also be used as a legal post. Upon each of these posts must be written the name of the claim, the name of the locator, and the date of location. On No. 1 post, in addition, the following must be written: "Initial post. Direction of Post No. 2 [*giving approximate compass bearing*] ——— feet of this claim lie on the right and ——— feet on the left of the line from No. 1 to No. 2 posts."

The location-line between Nos. 1 and 2 posts must be distinctly marked—in a timbered locality by blazing trees and cutting underbrush, and in bare country by monuments of earth or rock not less than 2 feet in diameter at the base, and at least 2 feet high—so that the line can be distinctly seen.

Mineral claims must be recorded in the Mining Recorder's office for the mining division in which they are situate within fifteen days from the date of location, one day extra being allowed for each 10 miles of distance from the recording office after the first 10 miles. If a claim is not recorded in time it is deemed abandoned and open for relocation, but if the original locator wishes to relocate he can only do so by permission of the Gold Commissioner of the district and upon the payment of a fee of $10. This applies also to a claim abandoned for any reason whatever.

Mineral claims are, until the Crown grant is issued, held practically on a yearly lease, a condition of which is that during such year assessment-work be performed on the same to the value of at least $100, or a payment of such sum be made to the Mining Recorder. Such assessments must be recorded before the expiration of the year, or the claim is deemed abandoned. If, however, the required assessment-work has been performed within the year, but not recorded within that time, a free miner may, within thirty days thereafter, record such assessment-work upon payment of an additional fee of $10. The actual cost of the survey of a mineral claim, to an amount not exceeding $100, may also be recorded as assessment-work. If, during any year, work is done to a greater extent than the required $100, any further sum of $100—but not less—may be recorded and counted as further assessments; such excess work must be recorded during the year in which it is performed. All work done on a mineral claim between the time of its location and recording may be counted as work done during the first period of one year from the recording. As soon as assessment-work to the extent of $500 is recorded and a survey made of the claim, the owner of a mineral claim is entitled to a Crown grant on payment of a fee of $25, and giving the necessary notices required by the Act. Liberal provisions are also made in the Act for obtaining mill-sites and other facilities in the way of workings and drains for the better working of claims.

Placer Claims.

Placer-mining is governed by the "Placer-mining Act," and by the interpretation clause its scope is defined as "the mining of any natural stratum or bed of earth, gravel, or cement mined for gold or other precious minerals or stones." Placer claims are of four classes, as follows:—

"'Creek diggings': any mine in the bed of any stream or ravine:

"'Bar digging': any mine between high- and low-water marks on a river, lake, or other large body of water:

"'Dry diggings': any mine over which water never extends:

"'Precious-stone diggings': any deposit of precious stones, whether in veins, beds, or gravel deposits."

The following provisions as to extent of the various classes of claims are made by the Act:—

"In 'creek diggings' a claim shall be two hundred and fifty feet long, measured in the direction of the general course of the stream, and shall extend in width one thousand feet, measured from the general course of the stream five hundred feet on either side of the centre thereof:

"In 'bar diggings' a claim shall be:—

"(*a.*) A piece of land not exceeding two hundred and fifty feet square on any bar which is covered at high water; or

"(*b.*) A strip of land two hundred and fifty feet long at high-water mark, and in width extending from high-water mark to extreme low-water mark:

"In 'dry diggings' a claim shall be two hundred and fifty feet square."

The following provision is made for new discoveries of placer-mining ground:—

"If any free miner, or party of free miners, discovers a new locality for the prosecution of placer-mining and such discovery be established to the satisfaction of the Gold Commissioner, placer claims of the following sizes shall be allowed to such discoverers, namely:—

"To one discoverer, one claim..... 600 feet in length;

"To a party of two discoverers, two claims amounting together to.....1,000 feet in length;

"And to each member of a party beyond two in number, a claim of the ordinary size only.

"The width of such claims shall be the same as ordinary placer claims of the same class: Provided that where a discovery claim has been established in any locality no further discovery shall be allowed within five miles therefrom, measured along the watercourses."

Every placer claim shall be as nearly as possible rectangular in form, and marked by four legal posts at the corners thereof, firmly fixed in the ground. On each of such posts shall be written the name of the locator, the number and date of issue of his free miner's certificate, the date of the location, and the name given to the claim. In timbered localities boundary-lines of a placer claim shall be blazed so that the posts can be distinctly seen, underbrush cut, and the locator shall also erect legal posts not more than 125 feet apart on all boundary-lines. In localities where there is no timber or underbrush, monuments of earth and rock, not less than 2 feet high and 2 feet in diameter at base, may be erected in lieu of the last-mentioned legal posts, but not in the case of the four legal posts marking the corners of the claim.

A placer claim must be recorded in the office of the Mining Recorder for the mining division within which the same is situate, within fifteen days after the location thereof, if located within 10 miles of the office of the Mining Recorder by the most direct means of travel. One additional day shall be allowed for every 10 miles additional or fraction thereof. The number of days shall be counted inclusive of the days upon which such location was made, but exclusive of the day of application for record. The application for such record shall be under oath and in the form set out in the Schedule to the Act. A claim which shall not have been recorded within the prescribed period shall be deemed to have been abandoned.

To hold a placer claim for more than one year it must be rerecorded before the expiration of the record or rerecord.

A placer claim must be worked by the owner, or some one on his behalf, continuously, as far as practicable, during working-hours. If work is discontinued for a period of seven days, except during the close season, lay-over, leave of absence, sickness, or for some other reason to the satisfaction of the Gold Commissioner, the claim is deemed abandoned.

Lay-overs are declared by the Gold Commissioner upon proof being given to him that the supply of water is insufficient to work the claim. Under similar circumstances he has also the power to declare a close season, by notice in writing and published in the Gazette, for all or any claims in his district. Tunnel and drain licences are also granted by him on the person applying giving security for any damage that may arise. Grants of right-of-way for the construction of tunnels or drains across other claims are also granted on payment of a fee of $25, the owner of the claims crossed having the right for tolls, etc., on the tunnel or drain which may be constructed. These tolls, however, are, so far as the amount goes, under the discretion of the Gold Commissioner.

Co-owners and Partnerships.

In both the "Mineral" and "Placer-mining" Acts provision is made for the formation of mining partnerships, both of a general and limited liability character. These are extensively taken advantage of and have proved very satisfactory in their working. Should a co-owner fail or refuse to contribute his proportion of the expenditure required as assessment-work on a claim he may be "advertised out," and his interest in the claim shall become vested in his co-owners who have made the required expenditure, *pro rata* according to their former interests.

It should not be forgotten that if any co-owner permits his free miner's certificate to lapse, the title of his associates is not prejudiced, but his interest reverts to the remaining co-owners; provided that said co-owner has not taken advantage of the six months' period of grace allowed for the taking-out of a special free miner's certificate, thus reviving the title to his interest.

Placer-mining Leases.

Leases of unoccupied Crown lands approximately 80 acres in extent may be granted by the Gold Commissioner of the district after location has been made by staking along a "location-line" not more than one-half a mile (2,640 feet) in length. In this line one bend, or change of direction, is permitted. Where a straight line is followed two posts only are necessary—namely, an "initial post" and a "final post." Where there is a change of direction a legal post must be placed to mark the point of the said change. The leasehold is allowed a width not in excess of one-quarter mile (1,320 feet), and the locator, both on his "initial post" and in his notice of intention to apply, which is posted at the office of the Mining Recorder, is required to state how many feet are included in the location to the right and how many feet to the left of the location-line.

That section of the Act dealing with the staking of placer-mining leases follows:—

"105. (1.) For the purpose of locating a placer leasehold, a line to be known as the 'location-line' shall be marked on the ground by placing a legal post at each end, one post to be known as the 'Initial Post' and the other as the 'Final Post.' The direction of the location-line may change at not more than one point throughout its length, and an intermediate legal post shall be placed at the point at which the direction changes. The total length of the location-line, following its change of direction (if any), shall not exceed two thousand six hundred and forty feet.

"(2.) Upon the initial post and the final post shall be written the words 'Initial Post' and 'Final Post' respectively, together with the name of the locator and the date of the location. On the initial post shall also be written the approximate compass-bearing of the final post, and a statement of the number of feet of the leasehold lying on the right and on the left of the location-line, as viewed from the initial post, not exceeding in the aggregate a width of thirteen hundred and twenty feet, thus: 'Direction of Final Post, . feet of this claim lie on the right and feet on the left of the location-line.' In addition to the foregoing, where there is a change of direction in the location-line as marked on the ground, the number '1' shall be written on the initial post; the number '2' shall be written on the intermediate post; and the number '3' shall be written on the final post. There also shall be affixed to the initial post a notice to the following effect, namely: 'Application will be made under the "Placer-mining Act" for a lease of the ground within this location.'

"(3.) The location-line shall at the time of location be marked between the legal posts throughout its length so that it can be distinctly seen; in a timbered locality, by blazing trees and cutting underbrush, and in a locality where there is neither timber nor underbrush, by placing legal posts or monuments of earth or stones not less than two feet high and not less than two feet in diameter at the base, so that the location-line can be distinctly seen.

"(4.) Where, from the nature or shape of the surface of the ground, it is impracticable to mark the location-line of a leasehold as provided by this section, the leasehold may be located by placing legal posts as witness-posts, as near as possible to the location-line, and writing on each witness-post the distance and compass-bearing of some designated point on the location-line from the witness-post; and the distances and compass-bearing so written on the witness-posts shall be set out in the application for the lease and in any lease granted thereon.

"(5.) The locator shall, within thirty days after the date of the location, post a notice in Form I in the office of the Mining Recorder, which notice shall set out:—

"(*a.*) The name of the intending applicant or each applicant if more than one, and the numbers of their free miners' certificates:

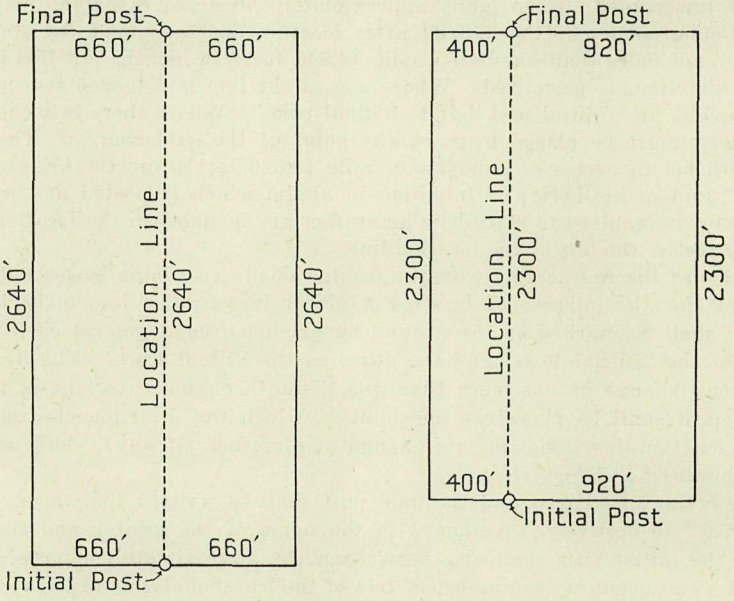
"(*b.*) The date of the location:

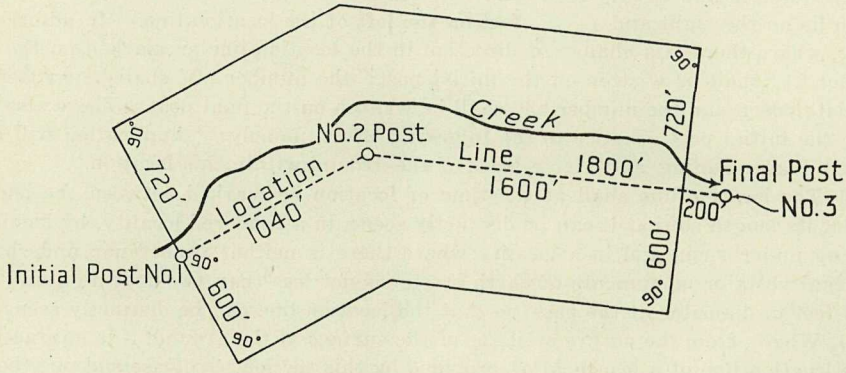
"(*c.*) The number of feet lying to the right and left of the location-line, and the approximate area or size of the ground.

The words written on the initial post and final post shall be set out in full in the notice; and as accurate a description as possible of the ground to be acquired shall be given, having special reference to any prior locations it may join, and the general locality of the ground to be acquired."

EXAMPLES OF VARIOUS METHODS OF LAYING OUT PLACER LEASEHOLDS.

Showing Areas secured with Location-lines of Various Lengths.





Another provision is that there must be affixed to the "initial post" and to the "final post" a numbered metal identification tag furnished by the Mining Recorder with each free miner's certificate issued. These tags may be attached to the posts, or placed in a container within a cairn, either at the time of location or some time during the succeeding year, but

must be so placed before the Mining Recorder will grant the first certificate of work in respect of the leasehold.

The annual rental on a placer-mining lease is $30, and the amount to be expended annually on development-work is $250.

Authority also has been given for the granting of special placer-mining leases in locations other than has been defined.

For more detailed information the reader is referred to the complete " Placer-mining Act," which may be obtained from the King's Printer, Victoria, B.C.

Table of Fees, Mineral Act and Placer-mining Act.

Individual free miner's certificate, annual fee	$5.00
Company free miner's certificate (capital $100,000 or less), annual fee	50.00
Company free miner's certificate (capital over $100,000), annual fee	100.00
Recording mineral or placer claim	2.50
Recording certificate of work, mineral claim	2.50
Rerecord of placer claim	2.50
Recording lay-over	2.50
Recording abandonment, mineral claim	10.00
Recording abandonment, placer claim	2.50
Recording any affidavit	2.50
Records in " Records of Conveyances "	2.50
Filing documents, " Mineral Act "	.25
Filing documents, " Placer-mining Act "	1.00
Recording certificate of work, placer-mining lease	2.50
For Crown grant of mineral rights under " Mineral Act "	25.00
For Crown grant of surface rights of mineral claim under " Mineral Act "	10.00
For every lease under " Placer-mining Act "	5.00

Provisional Free Miners' Certificates (Placer) Act.

This Act provides for the issuance of " provisional free miners' certificates " for the locating, recording, representing, and working of placer claims of a size, and according to the terms, and in the manner set out in Parts II. and III. of the " Placer-mining Act." Any person over 18 years of age who has resided in the Province continuously for a period of not less than six months prior to date of his application may, on application accompanied by a statutory declaration or other satisfactory evidence as to his age and period of residence in the Province, obtain from any Gold Commissioner or Mining Recorder a provisional free miner's certificate. No fees are payable in respect of such certificate, and it abolishes the fees payable in respect of the recording or rerecording of placer claims, but no record or rerecord of a claim shall be granted for a longer period than one year without the payment of fees. It should be pointed out that the provisional free miner's certificate does not carry the privileges of an ordinary free miner's certificate as to the staking and working of placer-mining leases or mineral claims.

The Act also gives the Lieutenant-Governor in Council, as a means of unemployment relief, power to make provision for the establishment, equipment, maintenance, and operation of one or more placer training camps at suitable locations, at which unemployed persons who hold provisional free miners' certificates and are British subjects may acquire knowledge and training in the art of placer-mining and may be afforded gainful work in the recovery of minerals by placer-mining. Reserves for the location of such camps shall not exceed one mile in length by one-half mile in width, and the right is given to enter into agreements with private holders under the Act for the development of their ground by means of unemployment relief camps.

Department of Mines Act, 1937.

The " Department of Mines Act " empowers the Minister of Mines to organize the Department or to reorganize it from time to time to meet changing conditions in the mining industry. It provides for examination and certification of assayers; for the conducting of short courses of lectures in practical geology and mineralogy; and for the purchase of ore from the Provincial sampling plants. The said Act also provides for the expenditure of public moneys

for the construction, reconstruction, or repair of trails, roads, and bridges to facilitate the exploration of the mineral resources of any mining district, or in the operation and development of any mining property.

Iron and Steel Bounties Act, 1929.

The Lieutenant-Governor in Council may enter into an agreement with any person whereby the Crown will pay to that person, out of the Consolidated Revenue Fund, bounties on pig-iron and steel shapes when manufactured within the Province, as follows:—

(*a.*) In respect of pig-iron manufactured from ore, on the proportion produced from ore mined in the Province, a bounty not to exceed three dollars per ton of two thousand pounds:

(*b.*) In respect of pig-iron manufactured from ore, on the proportion produced from ore mined outside the Province, a bounty not to exceed one dollar and fifty cents per ton of two thousand pounds:

(*c.*) In respect of steel shapes of commercial utility manufactured in the Province, a bounty not to exceed one dollar per ton of two thousand pounds.

Bounty, as on pig-iron under this Act, may be paid upon the molten iron from ore which in the electric furnace, Bessemer or other furnace, enters into the manufacture of steel by the process employed in such furnace; the weight of such iron to be ascertained from the weight of the steel so manufactured.

Bounty on steel shapes under this Act shall be paid only upon such steel shapes as are manufactured in a rolling-mill having a rated productive capacity per annum of at least twenty thousand tons of two thousand pounds per ton.

Metalliferous Mines Regulation Act.

At the 1935 session of the Provincial Legislature " An Act to amend and consolidate the Enactments regulating the Working of Metalliferous Mines, Quarries, and Metallurgical Works " was passed. This Act is known as the " Metalliferous Mines Regulation Act," and, in its general tone, its clear purpose is to maintain the highest standard in respect of safety and of healthy conditions, both on the surface and underground in mining operations. The idea is to not only assure, as far as practicable, the protection of workmen against injury, but to establish those conditions best calculated to safeguard the health of the men employed. The Act also provides for the drafting of regulations, if such are found necessary, for the protection of men who are working under conditions which may lead to pulmonary disability.

This Act may be divided into six parts, as follows:—

(1.) Administration:

(2.) Duties of owners, managers, and others:

(3.) Special Rules for protection of miners:

(4.) General Rules, having reference to: (*a*) Employees; (*b*) Ventilation; (*c*) Explosives and blasting; (*d*) Fire-protection; (*e*) Connection between mines; (*f*) Mine signals; (*g*) Aid to injured; (*h*) Prevention of dust; (*i*) Handling of water; (*j*) Sanitation; (*k*) Protection of working-places, shafts, winzes, raises, etc.; (*l*) Ladder-ways; (*m*) Shaft equipment and operation; (*n*) Testing of brakes; (*o*) Haulage; (*p*) Protection from machinery; (*q*) Electrical installations:

(5.) General Rules for quarries:

(6.) Supplemental.

SUMMARY OF ACTS SPECIALLY RELATING TO MINING.

(The complete Acts may be obtained from the King's Printer, Victoria, B.C.)

Mining Licences under the Coal and Petroleum Act.

Any person desiring to prospect for coal, petroleum, or natural gas upon any unsurveyed unreserved lands in which these resources are held by the Crown may acquire a licence to do so over a rectangular block of land not exceeding 640 acres, of which the boundaries shall run due north and south and east and west, and no side shall exceed 80 chains (1 mile) in length. Before entering into possession of the said lands he shall place at the corner of such block a legal stake, or initial post, and shall inscribe thereon his name and the angle represented by such post, thus: "A. B.'s N.E. corner," or as the case may be, and shall post in a conspicuous place upon the said land, and also in the Government office of the land recording district, notice of his intention to apply, as well as publishing the same in the B.C. Gazette and local newspaper once each week for four consecutive weeks. If the area applied for is surveyed no staking is required, but the same procedure with regard to advertising notice of intention to apply is necessary.

The application for said licence shall be in writing, in duplicate, and shall contain the best written description possible, with a diagram of the land sought to be acquired, and shall be accompanied with a fee of $100. The application shall be made to the Commissioner of Lands for the district, within sixty days from date of first publication in B.C. Gazette, and by him forwarded to the Minister of Lands, who will grant such licence—provided no reasons arise to the contrary—for a period not to exceed one year, and at the expiration of the first year an extension of such licence may be granted for a second or third year at a fee of $100.

Where coal is discovered during the existence of licence or within thirty days after expiration, the land held under licence, having been surveyed and licence conditions fulfilled, may be leased for five years at rental of 15 cents an acre, subject to renewals for five successive periods of three years each, renewal fee being $100 for each lease, in addition to annual rental.

Lessees, on showing continuous work has been done and reasonable expenditure made for development, may, after carrying out the provisions of the lease, purchase at $20 per acre where surface is available, or $15 per acre for under-surface rights where surface is not available. Lands under the sea may be purchased at $15 per acre. Provided also that, in addition to the rental or purchase price, there shall be paid to the Government as a royalty 2½ cents a barrel (35 imperial gallons) of crude petroleum raised or gotten from such land. (*See* chapter 175, R.S.B.C. 1936.)

Taxation Act.

A preliminary note is essential to the understanding of this Act. As the law has stood, a Crown-granted mineral claim on which taxes were in arrears for a number of years was offered for sale by the Government at a *tax* sale, with arrears of taxes plus interest and charges and Crown-grant fees as an upset price. If no sale was made the property remained in the hands of the Assessor until desired by some one, when it could only be purchased by tender. It was not open to location under the "Mineral Act" and a prospector had no protection, and to relieve the situation an amending Act was passed.

Under the amended Act such reverted Crown-granted mineral claim may be obtained by any person under a lease for one year upon payment of $25, and a renewal of such lease may be granted upon payment of further $25 for a further period of one year, but no longer. During the period of such lease the lessee has the right to enter, prospect, and mine on such mineral claim, save for coal, petroleum, and natural gas, and during such time the lessee has the option to purchase such Crown-granted mineral claim upon payment of all taxes, costs, and interest which remained due and unpaid on such claim on the date of its forfeiture to the Crown, together with an amount equal to all taxes and interest which, except for its forfeiture to the Crown, would have been payable in respect thereof from the date of the lease to the date of application for a Crown grant. If, however, the lessee establishes to the satisfaction of the Gold Commissioner that he has expended upon the claim in mining-development work a sum of not less than $200 a year during the continuance of the lease, then the payment of the sum in respect of taxes and penalties from the date of the lease to

the date of application for a Crown grant shall not be required. Provision also is made for the grouping of adjoining claims, not exceeding eight in number, and the performing on one of such claims mining-development work for all of the claims.

A person may obtain a lease, or interest in a lease, of eight such claims in the same mining division.

Such leases are not transferable and are subject to the rights any person may already hold to any portion of the surface of such Crown-granted mineral claim.

Taxation of Mines.

Crown-granted mineral claims are subject to a tax of 25 cents per acre. The tax becomes due on April 1st in each year, and if unpaid on the following June 30th is deemed to be delinquent.

All mines, other than coal, are subject to an output tax (payable quarterly) of 2 per cent. on gross value of mineral, less cost of transportation from mine to reduction-works and the cost of treating same at reduction-works or on the mining premises.

Any such mine, not realizing on ore shipments a market value of $5,000 in any one year, is entitled to a refund of the output tax paid.

All mines are subject to a tax upon income, subject to the exemptions and allowances given in the "Income Tax Act"; provided, in the case of those mines paying an output tax, that an income tax is only collected if such tax prove greater than the output tax, and the output tax is then regarded as part payment of the income tax.

In addition to the ordinary working expenses, mines are allowed to deduct from their income a charge for:—

(1.) Development—being such proportion of this capital expenditure as is ascertained to be chargeable to the year's operation:

(2.) Depreciation of buildings and plant:

(3.) Depletion—being such proportion of the capital cost of the mine as, being a wasting asset, is ascertained to be chargeable to the year's operation.

The above-mentioned charges are allowable at the discretion of the Minister of Finance, subject, however, to an appeal to the Lieutenant-Governor in Council.

The rate of income tax varies from 1 per cent. up to a maximum of 10 per cent. on incomes of $19,000 and over.

Coal is subject to a tax of 10 cents per ton of 2,240 lb., except coal shipped to coke-ovens within the Province. Tax payable monthly.

Coke is subject to a tax of 10 cents per ton of 2,240 lb., except in respect of coke produced from coal upon which this tax has already been paid. Tax payable monthly.

Coal land from which coal is being mined (Class A) is taxed at 1 per cent. upon the assessed value, in addition to any other tax.

Unworked coal land, known as "Coal Land, Class B," is subject to a tax of 2 per cent. upon the assessed value.

For further particulars *see* the "Taxation Act," also the "Public Schools Act," which are obtainable from the King's Printer, Victoria, B.C.

ASSAY OFFICE.

BY

D. E. WHITTAKER.

During the year 1938 there were made by the staff in the Assay Office, 7,100 assays or quantitative determinations and 1,574 analyses; of these the majority were for the Department of Mines or for the other departments, for which no fees were received.

The fees collected by the office were as follows:—

Fees for analyses	$82.00
Fees for assaying	147.00
Fees for assayers' examinations	480.00
Total cash receipts	$709.00

Determinations and examinations made for other Government departments, for which no fees were collected:—

Attorney-General's Department	$545.00
Agricultural Department	1,630.00
Board of Health	1,085.00
Treasury	2,397.00
Forest Branch	385.00
Other departments	135.00
	$6,177.00
Value of work done outside of Mines Department work	$6,886.00

Two thousand three hundred and ninety-seven lots of gold were received from the Gold Commissioners, who are purchasing amounts up to 2 oz. to aid the prospector in disposing of his gold.

FREE DETERMINATIONS.

In addition to the above quantitative work, 419 qualitative determinations, or tests, were made in connection with the identification and classification of rocks or minerals sent to the Assay Office for a report; for these no fees were charged, as it is the established custom of the Department to examine and test qualitatively, without charge, samples of minerals sent in from any part of the Province, and to give a report on the same. This has been done for the purpose of encouraging the search for new or rare minerals and ores, and to assist prospectors and others in the discovery of new mining districts, by enabling them to have determined, free of cost, the nature and probable value of any rock they may find. In making these free determinations, the Department asks that the locality from which the sample was obtained be given by the sender.

EXAMINATIONS FOR ASSAYERS.

The writer has the honour, as Secretary, to submit the Annual Report for the year 1938 of the Board of Examiners for Certificates of Competency and Licence to practise Assaying in British Columbia, as established under the "Department of Mines Act, 1937."

A meeting of the Board of Examiners was held on May 16th, June 21st, and December 22nd. Five candidates applied for examination on April 25th and four passed the examination. Six candidates applied for examination on May 9th and all passed the examination. Three candidates applied for examination on June 6th and all passed. Five candidates applied for examination on November 28th and all passed the examination. Three candidates applied for exemption under the Act and were granted certificates.

GOLD COMMISSIONERS AND MINING RECORDERS.

The following list shows the Gold Commissioners and Mining Recorders of the Province:—

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Sub-recorder.
Atlin	Atlin	H. F. Glassey	H. F. Glassey	G. H. Hallett.
Sub-office	Telegraph Creek			T. S. Dalby.
Sub-office	Haines (U.S.)		(Com. for taking Affidavits)	B. A. Barnett.
Sub-office	Tulsequah			W. J. Nelson.
Sub-office	Juneau (U.S.)		(Com. for taking Affidavits)	Harold E. Brown.
Stikine	Telegraph Creek	T. S. Dalby	T. S. Dalby	
Sub-office	Boundary via Telegraph Creek			F. W. Grimble.
Sub-office	Burns Lake			F. E. Trousdell.
Sub-office	McDame Creek			Gerald Davis.
Sub-office	Fort St. John			F. W. Beatton.
Sub-office	Dease Lake Townsite			R. J. Campbell.
Skeena	Prince Rupert	N. A. Watt	N. A. Watt	A. J. Lancaster.
Sub-office	Kitimat			Chas. E. Moore.
Sub-office	Copper River			L. G. Skinner.
Sub-office	Terrace			P. Kelsberg.
Sub-office	Stewart (Portland Canal)			H. W. Dodd.
Sub-office	Rosswood			Mrs. Alberta Smith.
Sub-office	Kimsquit			Percy Gadsden.
Portland Canal	Stewart	N. A. Watt (at Prince Rupert)	H. W. Dodd	
Sub-office	Anyox			W. Eve.
Sub-office	Alice Arm			Mrs. L. Cummings.
Bella Coola	Prince Rupert	N. A. Watt	N. A. Watt	A. J. Lancaster.
Sub-office	Bella Coola			C. A. Brynildsen.
Sub-office	Ocean Falls			Geo. H. Hill.
Sub-office	Kimsquit			Percy Gadsden.
Queen Charlotte	Queen Charlotte	N. A. Watt	D. T. R. McColl, M.D.	
Sub-office	Lockeport			
Omineca	Smithers	H. B. Campbell	H. B. Campbell	
Sub-office	Fort Grahame			J. Copeland.
Sub-office	Bella Coola			C. A. Brynildsen.
Sub-office	Finlay Forks			A. MacKinnon.
Sub-office	Fort St. James			Mrs. A. Kynoch.
Sub-office	Manson Creek			W. B. Steele.
Sub-office	Telkwa			T. J. Thorp.
Sub-office	Prince George			Geo. Milburn.
Sub-office	Hudson Hope			F. F. Monteith.
Sub-office	Kimsquit			Percy Gadsden.
Sub-office	Fort St. John			F. W. Beatton.
Sub-office	Whitewater (Finlay River) via Fort Grahame			James Ware.
Sub-office	Cedarvale			John Thompson.
Sub-office	Terrace			P. Kelsberg.
Sub-office	Fort Fraser			J. D. Moore.
Sub-office	Vanderhoof			Geo. Ogsdon.
Sub-office	Pacific			J. C. McCubbin.
Sub-office	Hazelton			Andrew Grant.
Sub-office	Burns Lake			F. E. Trousdell.
Sub-office	Usk			Jas. L. Bethurem.
Sub-office	Takla Landing			Mrs. Wilhemina Aiken.
Sub-office	Copper River			L. G. Skinner.
Peace River	Fort St. John	H. B. Campbell (at Smithers)	F. W. Beatton	
Sub-office	Fort Nelson			H. J. Engleson.
Sub-office	Prince George			G. Milburn.
Sub-office	Finlay Forks			A. MacKinnon.
Sub-office	Hudson Hope			Melvin Kyllo.
Sub-office	Pouce Coupe			A. E. Roddis.

GOLD COMMISSIONERS AND MINING RECORDERS—*Continued.*

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Sub-recorder.
Cariboo	Barkerville	H. A. Bryant	H. A. Bryant	
Sub-office	Quesnel			A. Sydney.
Sub-office	Prince George			Geo. Milburn.
Sub-office	McBride			M. B. McBrayne.
Sub-office	Fort McLeod			J. E. McIntyre.
Quesnel	Williams Lake	L. C. Maclure	L. C. Maclure	
Sub-office	Quesnel			A. Sydney.
Sub-office	Likely			A. Morrison.
Sub-office	Barkerville			H. A. Bryant.
Sub-office	Horsefly			A. B. Campbell.
Sub-office	Keithley Creek			Wm. Lowden.
Sub-office	Hanceville			E. R. Hance.
Clinton	Clinton	R. J. A. Dorrell	R. J. A. Dorrell	
Sub-office	Williams Lake			L. C. Maclure.
Sub-office	Haylmore via Gold Bridge			W. Haylmore.
Sub-office	Hanceville			E. R. Hance.
Kamloops	Kamloops	P. H. McCurrach	P. H. McCurrach	D. G. Dalgleish.
Sub-office	Chu Chua			George M. Fennell.
Sub-office	Vavenby			H. Finley.
Sub-office	Salmon Arm			A. P. Suckling.
Ashcroft	Ashcroft	P. H. McCurrach (at Kamloops)	W. F. Knowlton	
Sub-office	Lytton			H. Elgie.
Nicola	Merritt	P. H. McCurrach (at Kamloops)	A. G. Freeze	
Similkameen	Princeton	Chas. Nichols	Chas. Nichols	
Sub-office	Hedley			John Love.
Vernon	Vernon	R. M. McGusty	R. M. McGusty	F. H. C. Wilson.
Sub-office	Kelowna			C. W. Dickson.
Greenwood	Greenwood	L. A. Dodd	L. A. Dodd	
Sub-office	Kettle Valley			G. B. Gane.
Sub-office	Beaverdell			T. W. Clarke.
Sub-office	Oliver			W. H. Laird.
Grand Forks	Grand Forks	E. Harrison	E. Harrison	
Osoyoos	Penticton	W. R. Dewdney	W. R. Dewdney	
Sub-office	Keremeos			L. S. Coleman.
Sub-office	Hedley			John Love.
Sub-office	Oliver			W. H. Laird.
Golden	Golden	A. W. Anderson	A. W. Anderson	C. J. Dainard.
Windermere	Windermere	A. W. Anderson (at Golden)	A. M. Chisholm	
Fort Steele	Cranbrook	J. E. Kennedy	J. E. Kennedy	A. A. Robertson.
Sub-office	Fernie			J. R. Nolan.
Ainsworth	Kaslo	Claude MacDonald	W. M. H. Dunn	
Sub-office	Trout Lake			
Sub-office	Poplar Creek			A. Robb.
Slocan	New Denver	Claude MacDonald (at Kaslo)	Frank Broughton	
Sub-office	Sandon			H. Bradbury.
Slocan City	Slocan	Claude MacDonald	T. McNeish	W. E. Graham.
Nelson	Nelson	J. Cartmel	J. Cartmel	J. A. Stewart.
Sub-office	Creston			R. H. Hassard.
Sub-office	Ymir			S. Curwen.
Sub-office	Salmo			M. C. Donaldson.
Arrow Lake	Nakusp	J. Cartmel (at Nelson)	N. A. Herridge	
Revelstoke	Revelstoke	Wynfield Maxwell	W. Maxwell	
Lardeau	Beaton	Wynfield Maxwell (at Revelstoke)	Stephen Rowe	
Sub-office	Trout Lake			
Trail Creek	Rossland	A. C. Sutton	A. C. Sutton	
Nanaimo	Nanaimo	C. L. Monroe	C. L. Monroe	W. H. Cochrane.
Sub-office	Ladysmith			J. A. Knight.
Sub-office	Alert Bay			Jos. Howe.
Sub-office	Vananda			Henry Carter.
Sub-office	Shoal Bay, Thurlow P.O.			C. C. Thompson.

GOLD COMMISSIONERS AND MINING RECORDERS—*Continued.*

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Sub-recorder.
Nanaimo—*Continued.*				
Sub-office	Granite Bay			H. J. Bull.
Sub-office	Cumberland			S. B. Hamilton.
Sub-office	Zeballos			Geo. Nicholson.
Sub-office	Alberni			W. H. Boothroyd.
Alberni	Alberni	W. H. Boothroyd	W. H. Boothroyd	G. C. Rolf.
Clayoquot	Tofino	W. H. Boothroyd (at Alberni)	C. W. Sharp	
Sub-office	Zeballos			Geo. Nicholson.
Sub-office	Alberni			W. H. Boothroyd.
Sub-office	Nanaimo			C. L. Monroe.
Quatsino	Quatsino	W. H. Boothroyd (at Alberni)	Ed. Evenson	
Victoria	Victoria	R. J. Steenson	P. J. Mulcahy	
New Westminster	New Westminster	A. P. Grant	A. B. Gray	
Sub-office	Chilliwack			C. J. Whittaker.
Sub-office	Lytton			H. Elgie.
Sub-office	Hope			
Vancouver	Vancouver	A. S. Tyrer	R. A. Burgoyne	
Sub-office	Alert Bay			Jos. Howe.
Sub-office	Powell River			J. P. Scarlett.
Sub-office	Shoal Bay, Thurlow P.O.			C. C. Thompson.
Lillooet	Lillooet	L. J. Price	L. J. Price	T. B. Williams.
Sub-office	Haylmore via Gold Bridge			W. Haylmore.
Sub-office	Taseko River			Leslie MacAdams.

GOLD COMMISSIONERS' AND MINING RECORDERS' OFFICE STATISTICS, 1938.

Districts and Divisions.	Free Miners' Certificates.			Lode-mining.					Placer-mining.				Revenue.		Total.	
	Individual.	Company.	Special.	Mineral Claims recorded.	Certificates of Work.	Bills of Sale, etc.	Certificates of Improvements.	Leases of Reverted Crown-granted Mineral Claims.	Placer Claims recorded.	Placer Leases recorded (Bench, Creek, and Dredging).	Certificates of Work, Placer Leases.	Bills of Sale, etc.	Free Miners' Certificates.	General.	Mining Divisions.	Districts.
North-western District																**$24,704.85**
Atlin	393	6	2	39	44		5		47	37	141	58	$2,201.75	$8,898.85	$11,100.60	
Bella Coola	16			4	3								68.25	17.50	85.75	
Portland Canal	187	3	1	177	577	29	1			1	2		1,097.25	3,010.85	4,108.10	
Queen Charlotte	22			8	17	4			3				102.25	100.25	202.50	
Skeena	96		3	55	130	10		24	2	1			459.00	1,180.60	1,639.60	
Stikine	171			36	136	8				25	44	53	819.50	3,748.80	4,568.30	
North-eastern District																**63,338.65**
Cariboo	461	16		599	1,733	102	56		23	126	389	151	3,545.00	30,658.75	34,203.75	
Omineca	540	12	3	244	752	109		1	18	38	337	72	3,267.25	12,663.21	15,930.46	
Peace River										1				35.00	35.00	
Quesnel	496	4	3	402	229	96	14		45	81	168	36	1,887.50	11,281.94	13,169.44	
South Central District																**25,192.05**
Kamloops	359	1	1	213	227	51			29		16	10	1,696.50	1,970.35	3,666.85	
Nicola	46	2		64	245	19							396.75	1,559.50	1,956.25	
Vernon	244	3	6	99	103	11			17	17	4	6	1,257.25	2,525.80	3,783.05	
Grand Forks	84	1		54	54	17		9	5	6	3	2	470.25	829.75	1,300.00	
Greenwood	170	3	1	199	209	23	3	42	8	3	52	3	950.75	3,258.75	4,209.50	
Osoyoos	175	3	4	217	329	36	30	3	1				1,180.75	1,896.20	3,076.95	
Similkameen	404	8	1	268	302	23			15	24	49	20	2,260.75	4,938.70	7,199.45	
South-eastern District																**26,972.19**
Ainsworth	103	6		91	102	29	5	16	4				1,067.25	1,409.70	2,476.95	
Arrow Lake	12			13	4								52.75	42.75	95.50	
Fort Steele	255	3		98	192	9			12	13	59	17	1,357.75	4,483.25	5,841.00	
Golden	45	2	2	2	39	1				2	5		387.50	326.09	713.59	
Lardeau	45			38	117	19							211.50	506.25	717.75	
Nelson	404	27	6	292	759	94	21	17	39	22	12	19	3,992.25	5,335.20	9,327.45	
Revelstoke	107	3	2	50	126	71	10	5	2	4	43	49	677.25	3,574.80	4,252.05	
Slocan	39	1		29	41	1	4						262.75	309.50	572.25	
Slocan City	42			43	74	2	1		3				199.00	302.00	501.00	
Trail Creek	156	5		47	22	5	1	9					1,143.00	409.50	1,552.50	
Windermere	57	2	1	23	88	3							388.00	534.15	922.15	
South-western District																**74,335.38**
Alberni	257	1		211	75	17	6	8	2	1	9		899.25	2,431.25	3,330.50	
Ashcroft	129	1	2	113	131	20			14	10	13	18	998.25	1,814.90	2,813.15	
Clayoquot	900	7	5	3,441	1,179	513	33	20	13		3	5	4,010.00	14,868.88	18,878.88	
Clinton	117	3	1	119	276	55			23	13	21	14	697.25	2,815.30	3,512.55	
Lillooet	321	15		450	815	87	39	3	3	10	16		2,652.25	5,746.30	8,398.55	
Nanaimo	180		1	401	75	35		1	3				682.00	1,261.45	1,943.45	
New Westminster	185		6	181	170	28		2	14	1	3		824.50	1,212.00	2,036.50	
Quatsino	175			201	29	53							633.00	636.50	1,269.50	
Vancouver	2,130	137	38	397	235	59		5					19,686.75	2,292.65	21,979.40	
Victoria	493	17	5	96	34	11		11	7	9	17	4	2,833.25	2,963.90	5,797.15	
Yale	175	8		163	349	33			12	3	34	5	1,463.00	2,912.75	4,375.75	
Totals	10,191	300	94	9,177	10,022	1,653	229	176	364	448	1,440	542	$66,779.25	$14,476.87	$211,543.12	**$211,543.12**

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