PART A

ANNUAL REPORT

OF THE

MINISTER OF MINES

OF THE PROVINCE OF

BRITISH COLUMBIA

FOR THE

YEAR ENDED 31ST DECEMBER

1936

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BRITISH COLUMBIA DEPARTMENT OF MINES.

VICTORIA, B.C.

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

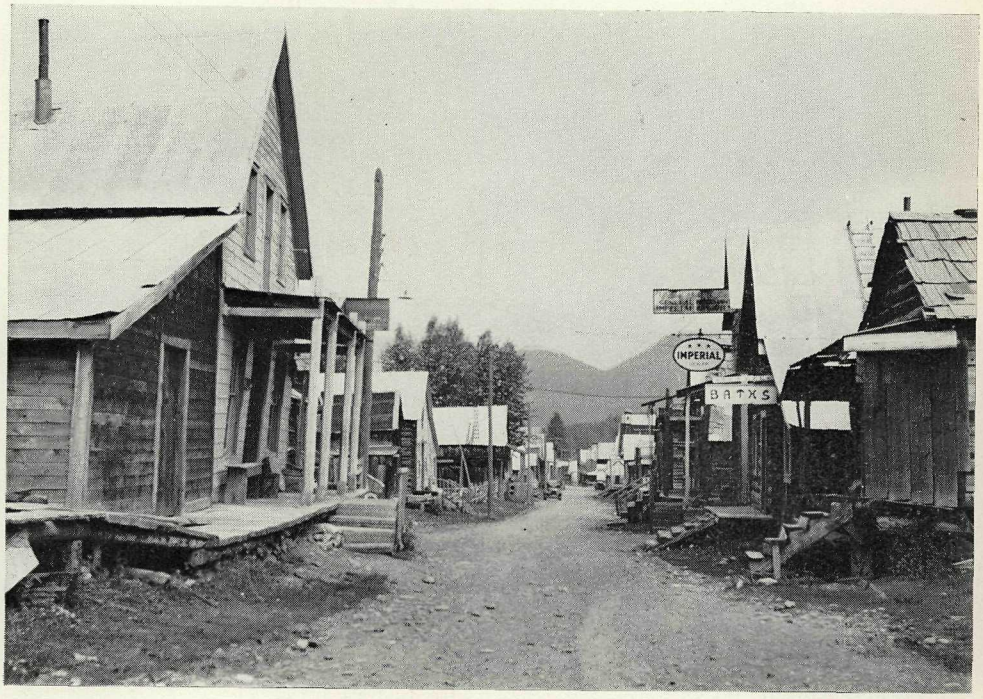
MAY IT PLEASE YOUR HONOUR:

The Annual Report of the Mining Industry of the Province for the year 1936 is herewith respectfully submitted.

G. S. PEARSON,
Minister of Mines.

Minister of Mines' Office,
May, 1937.

Main Street of Wells, 1936.



Main Street of Barkerville, 1936.

PART A.

THE MINING INDUSTRY.

BY

JOHN F. WALKER.

The value of mine production in 1936 was $54,081,967, an increase of $5,260,728 over 1935. This increase is particularly gratifying in view of the appreciably smaller tonnage of ore mined from base-metal properties, which means that a better price for base metals has been obtained throughout the year as compared with 1935.

Lode-gold production, which in recent years has been establishing records in both volume and value, showed a further increase of 10.7 per cent. in volume and 10.2 per cent. in value for 1936 as compared with 1935. Placer gold, with a value of $1,249,940, is the highest since 1900. The increase over 1935 was 40.3 per cent. in volume and 39.6 per cent. in value. The combined value for lode and placer gold of $15,418,594 is the greatest for any one metal or material for the year.

Lead is a close second to gold, with a value of $14,790,029 and an all-time record volume production of $377,971,618 lb. The volume increase was 9.8 per cent. and the value increase 37.2 per cent. as compared with 1935.

Zinc production fell slightly short of the 1935 volume record with a loss of 0.7 per cent., but the increase in value showed a gain of 6.1 per cent.

Coal, valued at $5,772,502, occupied fourth place with an increase in volume and value of 13.3 per cent.

Silver production increased in volume 2.9 per cent., with a value decline of 28.3 per cent., to $4,296,548.

Copper decreased in volume by 46.4 per cent. and in value by 34.8 per cent. to $1,971,848, the lowest since 1900. The smaller decrease in value as compared to volume shows a better average price for the metal during the year.

Non-metallic minerals and structural materials, with the exception of a few minor minerals and materials, showed substantial gains, amounting in the aggregate to over 30 per cent. This is a healthy sign, as it reflects activity in building and construction.

The total number of shipping-mines decreased from 177 to 168; those shipping over 100 tons decreased from 72 to 70.

The number of men employed increased from 13,737 to 14,180 and wages and salaries increased from $16,753,367 to $17,917,221.

Dividends increased from $7,386,070 in 1935 to $10,513,705 in 1936. These figures do not include dividends paid by Howe Sound Mining and Smelting Company, parent company of the Britannia Mining and Smelting Company, or the capital disbursements by the Granby Consolidated Mining, Smelting, and Power Company.

During the past three years new tables have been compiled, the first of which, Table No. I., appeared in the 1933 Annual Report.

For the 1934 Annual Report, Table VI. (now Table VII.), which formerly tabulated the yield of placer gold only, was drawn up to show both placer- and lode-gold values. This facilitates a rapid view of the total gold production of the Province. Another table introduced in 1934, No. XXII., includes "Mining Companies employing an Average of Ten or More Men." Incorporated in this table, additional data are presented showing the number of operating days at mine and mill, and also tonnage mined and milled. A subsection of the table shows operating days and average men employed at non-shipping mines employing ten or more men.

For the Annual Report for 1936, a new table, No. II., gives average metal prices used in compiling Provincial Production, for the years 1901–1936, inclusive, for gold, silver, copper, lead, and zinc.

Table IX.A, is a reprint of a similar table printed in the 1933 Annual Report, but with the values of both placer- and lode-gold ounces valued at the average value of gold per fine

ounce, instead of the old standard price of $20.671834. This table should be referred to when making comparisons with 1933 and 1932 gold production value.

Table No. VIII. has been extended to cover a period of five years' production by mining divisions and districts, in place of the three-year period formerly given.

Table No. XVII. is a new table for 1936 Annual Report, and covers dividends paid by mining companies in British Columbia. The information has been obtained from departmental files, operators, and trade journals, and while in general is accurate, there may be slight differences in isolated instances.

Table No. XVIII. is also a new table for 1936, and sets forth capital employed, salaries and wages, amount expended on fuel and electricity, and process supplies for the year 1936, with comparative figures for 1935. The table shows details of such subjects by districts, under the various classes of mining. The totals are those obtained from all returns made to the Department on the subject, but there are some returns not received in time to be included in the totals, nor does it take into account the amounts expended in the large number of small operations conduced by one or two individuals or prospectors.

Table No. XIX. is a former table enlarged to show a period from 1901 to 1936, inclusive, covering tonnage, number of mines, number of mines shipping over 100 tons, and net value to shipper of lode-minerals. A new feature in the table also is the gross value of lode-minerals produced. It will be observed that the " net value " is not given for the years previous to 1926; such was not given on returns filed by operators.

Table No. XX. is a former table showing number of men employed in the mining industry. Formerly the table gave the current year and one comparative year, but the present table covers the period 1901 to 1936, inclusive.

GENERAL SITUATION.

It is even more difficult to forecast the value of the mining industry for 1937 than it was to forecast it for 1936.

It is anticipated that lode gold will again show an increase in volume, and it is believed that the average price will be about the same. Placer gold should show a further marked increase in volume and value production.

Silver production and value are expected to be about the same as in 1936.

Copper should show an appreciable gain in volume, due to return to capacity production of Britannia and reopening of the *Copper Mountain* property of Granby Consolidated Mining, Smelting, and Power Company, about June 1st. It is impossible to forecast the average price for copper, which in the first four months of 1937 has increased from 11.8 to 17 cents per pound and has recently dropped to 14.9 cents per pound. However, if copper should average 12½ cents per pound, almost the low for the year to date, there should be, due to increased volume production, an increase in value of about $3,000,000 as compared to 1936. It is quite possible that this figure may be further increased by $750,000 to $1,000,000.

The volume of lead production may well show a slight increase, and with an almost assured increase in average price the value increase for the year may be anywhere from $3,750,000 to $7,000,000.

Zinc production is likely to be about the same in volume, but it is anticipated that the value will be considerably higher. Zinc, like copper and lead, has risen rapidly in price and then declined during the past four months, but a fair average for the year suggests an increased value of close to $5,000,000.

Coal may be expected to show a further increase in volume and value.

Structural materials should show a further increase, but it is not anticipated that it will be as great as that of 1936 compared with 1935.

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 the value of mine products may establish an all-time high record. If this is attained, it will be all the more gratifying, as it is not likely to be the result of a record tonnage output, but due to appreciably better metal prices.

Prospecting throughout the Province, though active, is not being carried on to as great an extent as it should be to assure the discovery of new properties which will replace those now in production, and to which there must inevitably be an end. However, two properties

are being brought into production in the North-west Mineral Survey District, one, the *Big Missouri*, a fairly old discovery, but the other, the *Whitewater* property of Polaris Taku Mining Company, Limited, a discovery of more recent years. An interesting discovery was also made last year in the McDame Creek area which is under development this year by the Consolidated Mining and Smelting Company of Canada.

The Manson section in North-eastern Mineral Survey District is now considered to have passed the prospect stage and production is expected on a profitable basis.

In the Cariboo area the recent developments by Consolidated Gold Alluvials of British Columbia will be watched with great interest throughout the year, as this property has now reached a stage where the future of this type of mining will soon be known.

In the Southern and Central Mineral Survey District the Hedley Camp will probably attract the greatest amount of attention during the coming season, and development is anticipated at a number of prospects and small properties. The reopening of the *Copper Mountain* property of Granby Consolidated Mining and Smelting Company is creating considerable employment in the Princeton area, and will no doubt again stimulate interest in that section.

In the Eastern Mineral Survey District the Slocan, due to current lead and zinc prices, is again attracting considerable attention, and a number of old properties are being reopened. It must be remembered, however, that the present price of zinc at a little over 5 cents per pound does not make the low-grade zinc properties attractive. The interest created in these properties was largely due to the recent high price of over 7 cents a pound.

In the Western Mineral Survey District the return of the Britannia Company to capacity production is perhaps the most important feature. The possibility of B.C. Nickel getting into production before the year is out is also of interest, as this is likely to be the first nickel-producer in Western Canada. Gold-mining is still active at various places, and interest is again being revived in base-metal properties.

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. During 1936, 1,470 lots of gold were received by the Department through the Gold Commissioners, of an aggregate value of some $50,000. The total price paid is almost exactly the same as that received from the Royal Canadian Mint, except for the Mint's handling charges of 1 per cent. The service for the year has cost the Government about $500, and considering that the individual miner has received about $10,000 to $12,000 more than had he sold through the ordinary channels, this service is believed to be well justified.

DEPARTMENT LABORATORIES.

During 1936 the Assay Office has been equipped with a new electric furnace and drying-oven and other accessories to bring it thoroughly up to date. The laboratories of the Mineralogical Branch have been equipped for the first time in the history of the Department with the finest microscopic equipment available. The work of the technical staff, by reason of this new equipment, will not only be increased in value, but the Department is prepared to offer a greater service to the public in the examination of mill products, etc., than heretofore. The laboratory is at present being equipped for research-work in respect to non-metallic and structural materials, where preliminary investigations may be made preparatory to more intensive work in the well-equipped laboratories of the Department of Mines in Ottawa.

LECTURES TO PROSPECTORS.

A series of fourteen lectures on geology and mining, prepared by the Provincial Mineralogist in 1934, was again presented during the winter of 1936–37 by the Resident Mining Engineers and other instructors at the following centres throughout the Province:—

Alice Arm, Bralorne, Burnaby (2), Creston, Fernie, Fort Steele, Wild Horse Creek, Galloway, Kelowna, Mayook, Nanaimo, Nelson, New Hazelton, North Vancouver, Penticton, Premier, Prince Rupert, Prince George, Princeton, Revelstoke, Smithers, Usk, Vancouver (2), Victoria, Williams Lake, and Wynndel.

The estimated total average attendance at the lectures prior to the completion of the course was 800. This work was carried out in conjunction with the Department of Education, and it is expected that the lectures will be given during the winter of 1937–38.

The preparation of rock and mineral sets comprising about fifty minerals and rocks commonly found in British Columbia has been going ahead for some time, and distribution started about the end of the year. A nominal charge of 50 cents a set is made, and it is expected that during 1937 about a thousand sets will be distributed throughout the Province.

PLACER MINING CAMPS.

The Provincial Government Department of Labour created in 1935 a plan whereby unmarried, physically fit unemployed men between the ages of 21 and 25 years were given an opportunity to learn placer-mining. In 1936 the age-limit was reduced, permitting younger men to enrol. Instruction was carried out under the direction of the Senior Engineer. The Nanaimo River and Emory Creek Camps only were used and enlarged to permit the training of larger groups than in 1935. The staff of the Nanaimo Camp consisted of an instructor in placer-mining, a cook-instructor, and timekeeper; and at Emory Creek a chief instructor and assistant instructor, a chief cook-instructor and an assistant cook-instructor, and a timekeeper. In addition to the above, some of the trainees were given, when necessary, the position of overseer and took charge of groups of trainees.

The trainees were instructed in simple methods of placer-mining, in the art of camp cooking, and how to look after themselves in the hills. This included first-aid instruction. Food and equipment supplied was similar to that used by prospectors.

Instruction lasted from a month to six weeks, according to ability to learn. Fifty men were trained in the Nanaimo Camp and 100 in the Emory Creek Camp at a time, and in all a total of about 300 men received training during the year. About 50 per cent. of the trainees availed themselves of the opportunity of a grub-stake equivalent to the relief allowance of $9.60 per man per month, and went to various parts of the Province. The Nanaimo Camp opened the latter part of June and both camps were closed about the end of September.

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 Government 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 511 Winch 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 is now a part of the Bureau of Geology and Topography.

During the season of 1936 the Geological Survey of Canada had the following officers employed on geological field-work in British Columbia:—

GEOLOGICAL PARTIES.

1. E. D. Kindle examined the mineral properies north and east of Usk, in an area tributary to the Canadian National Railways.

2. E. J. Lees studied and mapped the geology of the west half of Smithers map-area (lats. 54°–55°, longs. 127°–128°).

3. M. F. Bancroft examined the mineral properties in the Smithers district.

4. J. E. Armstrong commenced the study and mapping of the geology of the west half of Fort Fraser map-area (lats. 54°–55°, longs. 125°–126°).

5. J. G. Gray commenced the study and mapping of the geology of the east half of Fort Fraser map-area (lats. 54°–55°, longs. 124°–125°).

6. A. H. Lang completed the study and mapping of Keithley Creek map-area (lats. 52° 45′–53°, long. 121°–121° 30′).

7. N. F. G. Davis made a detailed study of the north-western part of the Barkerville Gold Belt in the vicinity of Island Mountain.

8. D. A. McNaughton made a detailed study of the mineral properties in Greenwood area.

9. C. E. Cairnes and C. Tolman studied and mapped the geology of the west half of Kettle River map-area (lats. 49°–50°, longs. 119°–120°).

10. H. M. A. Rice studied and mapped the geology of the east half of Nelson map-area (lats. 49°–50°, longs. 116°–117°).

TOPOGRAPHICAL PARTIES.

1. R. C. McDonald mapped, for publication, on 1 inch to 1 mile with 100-foot contours, an area in the vicinity of Tyaughton Lake.

2. A. C. Tuttle mapped the east half of the Nelson sheet (lats. 49°–50°, longs. 116°–117°) for publication on a scale of 1 inch to 4 miles with 500-foot contours.

3. R. J. Parlee and H. A. S. West mapped the Manson Creek sheet (lats. 55°–56°, longs. 124°–126°) for publication on 1 inch to 4 miles with 500-foot contours.

4. C. H. Smith and F. P. Duvernet mapped the Hazelton sheet (lats. 55°–56°, longs. 126°–128°) for publication on a scale of 1 inch to 4 miles with 500-foot contours.

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 1934, copper in 1935 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 in 1932, 1933, 1934, and 1935 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.

Robert Dunn, Deputy Minister of Mines for British Columbia for eleven years, died on November 26th, 1936, and with his passing the mining industry lost a true friend and able administrator.

Robert Dunn was born in Toronto, Ontario, in 1884, and came to British Columbia in 1891, receiving his education at the Victoria Public and High Schools. He had a wide experience in journalistic work on the editorial staffs of the Victoria *Colonist* and *Times*, and left the News Editor's chair of the latter paper in 1917, to become Secretary to the late William Sloan, at that time Minister of Mines. After eight years' service in that capacity he was appointed Deputy Minister.

He was greatly interested in the youth of the city and took an active part in Boy Scout affairs. He was a member of the Union Club and the Uplands Golf Club.

All those who had anything to do with the mining industry and the Department of Mines will long remember his courtesy and kindly consideration in their dealings with him.

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TABLE I.—British Columbia Mine Production, 1935 and 1936.

	Quantity, 1935.	Quantity, 1936.	Value, 1935.	Value, 1936.	Per Cent. Increase (+) or Decrease (—). Quantity.	Value.
Metallics.			$	$		
Bismuth	.....	.....	6,584	357,007	.....	.....
Cadmium	.....	.....	441,203	468,170	.....	+ 6.1
Copper ... lb.	38,791,127	20,803,672	3,023,768	1,971,848	— 46.4	— 34.8
Gold, lode* ... oz.	365,244	404,472	12,852,936	14,168,654	+ 10.7	+ 10.2
Gold, placer* ... oz.	30,929	43,389	895,058	1,249,940	+ 40.3	+ 39.6
Lead ... lb.	344,268,444	377,971,618	10,785,930	14,790,029	+ 9.8	+ 37.2
Platinum ... oz.	39	23	1,275	930	— 41.0	— 27.0
Silver ... oz.	9,251,544	9,521,015	5,994,075	4,296,548	+ 2.9	— 28.3
Zinc ... lb.	256,239,446	254,581,393	7,940,860	8,439,373	— 0.7	+ 6.1
Others	.....	.....	.....	49,971	.....	.....
Totals	.....	.....	41,941,689	45,792,470	.....	+ 9.2
Fuel.						
Coal (2,240 lb.) ... tons	1,187,968	1,346,471	5,048,864	5,722,502	+ 13.3	+ 13.3
Non-metallics.						
Diatomaceous earth	.....	.....	428	350	.....	— 15.9
Fluxes—limestone, quartz ... tons	36,378	17,592	36,673	14,555	— 51.6	— 60.3
Gypsum products, gypsite	.....	.....	84,982	124,425	.....	+ 46.4
Iron oxides	.....	.....	1,670	4,000	.....	+139.5
Slate and green rock granules; talc ... tons	390	268	4,293	2,809	— 5.6	— 32.1
Sodium carbonate, magnesium sulphate ... tons	584	845	10,395	15,389	+ 44.9	+ 48.0
Sulphur† ... tons	46,783	64,896	453,528	608,790	+ 39.1	+ 34.2
Totals	.....	.....	591,969	770,318	.....	+ 30.1
Clay Products and other Structural Materials.						
Clay Products.						
Brick—						
Common ... No.	2,388,451	3,327,061	30,632	46,437	+ 39.3	+ 51.6
Face, paving, sewer brick ... No.	910,618	564,788	25,821	19,613	— 38.0	— 24.0
Firebrick, blocks	.....	.....	77,404	115,121	.....	+ 32.8
Fireclay ... tons	523	567	7,137	7,657	+ 8.4	+ 7.3
Structural tile—hollow blocks	.....	.....	14,766	33,444	.....	+126.5
Drain-tile, sewer-pipe ... No.	668,907	712,745	49,328	54,179	+ 6.6	+ 9.8
Pottery—glazed or unglazed	.....	.....	3,508	2,875	.....	— 18.0
Bentonite; other clay products	.....	.....	4,040	1,961	.....	— 51.5
Totals	.....	.....	212,636	281,287	.....	+ 32.3
Other Structural Materials.						
Cement	.....	.....	314,115	516,931	.....	+ 64.6
Lime and limestone ... tons	82,902	72,591	133,286	137,158	— 11.2	+ 3.0
Sand and gravel	.....	.....	362,996	477,897	.....	+ 31.7
Stone—building, grindstones ... tons	4,640	5,890	95,152	175,226	+ 26.9	+ 84.2
Rubble, riprap, crushed rock ... tons	173,353	333,348	120,532	208,178	+ 92.0	+ 64.4
Totals	.....	.....	1,026,081	1,515,390	.....	+ 47.7
Total value in Canadian funds	.....	.....	48,821,239	54,081,967	.....	+ 10.8

* 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.	3.897 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** ,,
Average 1932–36 (inclusive)	31.36	45.576 ,,	7.705 ,,	2.797 ,,	3.014 ,,

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 1936.

Gold, placer	$82,702,699*
Gold, lode	191,813,716*
Silver	123,951,149
Copper	286,080,205
Lead	216,272,482
Zinc	127,849,893
Coal and coke	366,373,157
Structural materials	72,867,552
Miscellaneous minerals, etc.	11,433,756
Total	$1,479,344,609

* Canadian funds.

TABLE IV.—PRODUCTION FOR EACH YEAR FROM 1852 TO 1936 (INCLUSIVE).

1852 to 1895 (inclusive)	$94,547,241	1917	$37,010,392
1896	7,507,956	1918	41,782,474
1897	10,455,268	1919	33,296,313
1898	10,906,861	1920	35,543,084
1899	12,393,131	1921	28,066,641
1900	16,344,751	1922	35,162,843
1901	20,086,780	1923	41,304,320
1902	17,486,550	1924	48,704,604
1903	17,495,954	1925	61,492,242
1904	18,977,359	1926	67,188,842
1905	22,461,325	1927	60,729,358
1906	24,980,546	1928	65,372,583
1907	25,882,560	1929	68,245,443
1908	23,851,277	1930	55,391,993
1909	24,443,025	1931	34,883,181
1910	26,377,066	1932	*28,798,406
1911	23,499,072	1933	*32,602,672
1912	32,440,800	1934	*42,305,297
1913	30,296,398	1935	*48,821,239
1914	26,388,825	1936	*54,081,967
1915	29,447,508		
1916	42,290,462	Total	$1,479,344,609

* Canadian funds.

TABLE V.—QUANTITIES AND VALUE OF MINE PRODUCTS FOR 1934, 1935, AND 1936.

Description.	1934.		1935.		1936.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold, placer* ... oz.	25,181	$714,431	30,929	$895,058	43,389	$1,249,940
Gold, lode* ... oz.	297,130	10,250,985	365,244	12,852,936	404,472	14,168,654
Silver ... oz.	8,572,916	4,068,792	9,251,544	5,994,075	9,521,015	4,296,548
Copper ... lb.	48,084,658	3,567,401	38,791,127	3,023,768	20,806,672	1,971,848
Lead ... lb.	347,366,967	8,461,859	344,268,444	10,785,930	377,971,618	14,790,029
Zinc ... lb.	247,926,844	7,546,893	256,239,446	7,940,860	254,581,393	8,439,373
Coal ... tons, 2,240 lb.	1,347,090	5,725,133	1,187,968	5,048,864	1,346,471	5,722,502
Structural materials		1,017,141		1,238,717		1,796,677
Miscellaneous metals and minerals		952,662		1,041,031		1,646,396
Totals		$42,305,297		$48,821,239		$54,081,967

* 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	39,264	785,271	1,496,522	977,229	952,840	47,642	16,475,464	532,255	.....	.....	2,342,397
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
Totals	8,443,706	191,813,716	220,482,896	123,951,149	1,923,294,137	286,080,205	4,967,897,651	216,272,482	2,861,470,926	127,849,893	945,967,445

* 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	785,271	1,266,954
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*
Totals	$82,702,699	$191,813,716	$274,516,415

* Canadian funds.

TABLE VIII.—OUTPUT OF MINE PRODUCTS BY DISTRICTS AND DIVISIONS, 1932, 1933, 1934, 1935, AND 1936.

Names.	Divisions.					Districts.				
	1932.	1933.	1934.	1935.	1936.	1932.	1933.	1934.	1935.	1936.
North-western District (No. 1)	.....	.....	.....	.....	.....	$5,138,528	$5,097,666	$5,239,054	$4,543,389	$2,904,200
Atlin, Stikine, and Liard	$173,460	$279,402	$307,313	$406,378	$549,047	.....	.....	.....	.....	.....
Nass River	2,610,225	2,878,808	3,088,657	2,221,212	61,834	.....	.....	.....	.....	.....
Portland Canal	2,311,511	1,841,862	1,700,724	1,636,954	2,053,210	.....	.....	.....	.....	.....
Skeena, Queen Charlotte, and Bella Coola	43,332	97,594	142,360	278,845	240,109	.....	.....	.....	.....	.....
North-eastern District (No. 2)	.....	.....	.....	.....	.....	206,733	474,293	780,122	1,717,546	1,998,344
Cariboo and Quesnel	166,151	418,378	690,386	1,618,191	1,867,539	.....	.....	.....	.....	.....
Omineca and Peace River	40,582	55,915	89,736	99,355	130,805	.....	.....	.....	.....	.....
Central District (No. 3)	.....	.....	.....	.....	.....	291,719	243,863	619,036	564,441	632,040
Nicola and Vernon	120,813	133,146	214,798	315,550	194,490	.....	.....	.....	.....	.....
Yale, Ashcroft, and Kamloops	158,204	104,776	404,238	248,891	437,550	.....	.....	.....	.....	.....
Clinton*	12,702	5,941	.....	.....	.....	.....	.....	.....	.....	.....
Southern District (No. 4)	.....	.....	.....	.....	.....	1,577,412	1,085,336	1,207,845	2,330,201	2,689,497
Grand Forks, Greenwood, and Osoyoos	818,990	450,514	694,414	1,799,685	2,118,630	.....	.....	.....	.....	.....
Similkameen	758,422	634,822	513,431	530,516	570,867	.....	.....	.....	.....	.....
Eastern District (No. 5)	.....	.....	.....	.....	.....	14,522,464	17,875,958	24,828,234	28,994,311	33,258,173
Fort Steele	13,835,476	15,955,987	20,042,528	23,067,831	27,089,325	.....	.....	.....	.....	.....
Windermere and Golden	18,338	424,939	1,360,312	530,863	12,513	.....	.....	.....	.....	.....
Ainsworth	21,831	21,413	48,246	215,104	55,962	.....	.....	.....	.....	.....
Slocan and Slocan City	9,948	30,296	84,719	406,133	194,696	.....	.....	.....	.....	.....
Nelson and Arrow Lake	294,439	759,537	1,496,843	1,991,723	3,051,401	.....	.....	.....	.....	.....
Trail Creek	307,537	669,017	1,786,961	2,582,959	2,742,916	.....	.....	.....	.....	.....
Revelstoke and Lardeau	34,895	14,769	8,625	199,698	111,460	.....	.....	.....	.....	.....
Western District (No. 6)	.....	.....	.....	.....	.....	7,061,550	7,825,556	9,631,006	10,671,351	12,599,713
Nanaimo, Alberni, Clayoquot, Quatsino, and Victoria	4,015,841	3,043,331	2,965,047	3,262,171	3,881,722	.....	.....	.....	.....	.....
Vancouver, New Westminster, and Lillooet	3,045,709	4,782,225	6,466,377	7,172,367	8,303,079	.....	.....	.....	.....	.....
Yale, Ashcroft, and Clinton	.....	.....	199,582	236,813	414,912	.....	.....	.....	.....	.....
Totals†	$28,798,406	$32,602,672	$42,305,297	$48,821,239	$54,081,967	$28,798,406	$32,602,672	$42,305,297	$48,821,239	$54,081,967

* Yale, Ashcroft, and Clinton Mining Divisions included in No. 6 District (Mainland section) from and including 1934. † Canadian funds.

TABLE IX.—Production in Detail of Placer Gold, Lode

Districts and Divisions.	Year.	Tons.	Gold—Placer.		Gold—Lode.		Silver.	
			Ounces.	Value.	Ounces.	Value.	Ounces.	Value.
				$		$		$
North-western District (No. 1)								
Atlin	1935		13,227	382,797				
	1936	**6**	**18,423**	**530,726**	**2**	**70**	**934**	**421**
Stikine	1935		363	10,522				
	1936		**216**	**6,222**				
Liard	1935		285	8,234				
	1936		**228**	**6,568**				
Nass River	1935	1,210,308			5,567	195,903	257,081	166,563
	1936	**6,645**			**221**	**7,742**	**24,997**	**11,280**
Portland Canal	1935	156,855			33,611	1,182,771	674,201	436,815
	1936	**197,247**			**44,188**	**1,547,906**	**1,044,049**	**471,148**
Skeena	1935	12,262	102	2,956	6,632	233,380	1,476	956
	1936	**19,327**	**26**	**749**	**4,844**	**169,685**	**1,433**	**647**
Queen Charlotte	1935		122	3,519				
	1936	**5,096**	**65**	**1,872**	**20**	**700**	**7**	**3**
Bella Coola	1935							
	1936							
North-eastern District (No. 2)								
Cariboo	1935	73,758	6,280	181,721	35,835	1,261,034	4,555	2,951
	1936	**95,409**	**11,980**	**345,117**	**36,765**	**1,287,878**	**4,657**	**2,102**
Quesnel	1935		4,948	143,188				
	1936		**7,211**	**207,733**				
Omineca	1935	1,072	1,629	47,155	261	9,184	2,622	1,699
	1936	**10**	**1,775**	**51,134**	**7**	**245**	**3,205**	**1,446**
Peace River	1935		294	8,516				
	1936		**332**	**9,564**				
Central District (No. 3)								
Nicola	1935	7,844	1	35	874	30,756	25,224	16,342
	1936	**18,889**			**1,086**	**38,043**	**28,411**	**12,821**
Vernon	1935	1,843	38	1,091	301	10,592	304	197
	1936	**41**	**110**	**3,169**	**48**	**1,681**	**361**	**163**
Kamloops	1935	17,757	222	6,440	6,401	225,251	18,541	12,013
	1936	**18,343**	**166**	**4,782**	**7,021**	**245,946**	**19,405**	**8,757**
Southern District (No. 4)								
Grand Forks	1935	15,635	25	739	1,731	60,914	46,149	29,900
	1936	**494**	**9**	**259**	**1,061**	**37,167**	**18,361**	**8,286**
Greenwood	1935	42,252	257	7,425	13,130	462,045	753,143	487,961
	1936	**22,957**	**135**	**3,889**	**5,905**	**206,852**	**728,047**	**328,546**
Osoyoos	1935	69,328			18,934	666,287	2,520	1,633
	1936	**115,190**	**2**	**58**	**39,555**	**1,385,612**	**28,981**	**13,078**
Similkameen	1935		179	5,173				
	1936	**8**	**102**	**2,938**	**4**	**140**	**2**	**1**
Eastern District (No. 5)								
Fort Steele	1935	1,861,295	640	18,510			6,673,000	4,323,437
	1936	**1,901,477**	**657**	**18,927**			**7,068,195**	**3,189,664**
Windermere	1935		11	317				
	1936		**15**	**432**				
Golden	1935	55,918	11	317			45,540	29,505
	1936		**4**	**115**				
Ainsworth	1935	13,337	57	1,654	11	387	106,808	69,201
	1936	**766**	**2**	**58**	**1**	**35**	**21,056**	**9,502**
Slocan	1935	33,081			78	2,745	404,316	261,956
	1936	**11,677**	**1**	**29**	**54**	**1,892**	**226,661**	**102,285**
Slocan City	1935	147	4	105	39	1,372	4,475	2,899
	1936	**37**			**63**	**2,207**	**509**	**230**
Nelson	1935	142,428	132	3,835	53,262	1,874,290	67,635	43,821
	1936	**209,927**	**160**	**4,609**	**81,614**	**2,858,938**	**121,111**	**54,654**
Arrow Lake	1935		15	458				
	1936		**2**	**58**				
Trail Creek*	1935	37,553	59	1,689	23,576	829,639	28,656	18,566
	1936	**15,823**	**151**	**4,350**	**10,415**	**364,837**	**10,627**	**4,796**
Revelstoke	1935		83	2,393				
	1936	**102**	**79**	**2,276**	**6**	**210**	**6,742**	**3,042**
Lardeau	1935	28,823	89	2,569	5,403	190,132	3,451	2,236
	1936	**102,872**	**29**	**835**	**2,749**	**96,298**	**1,416**	**639**
Western District (No. 6)								
Nanaimo	1935	47	3	71	44	1,548	138	89
	1936	**270**	**3**	**86**	**61**	**2,137**	**209**	**94**
Alberni	1935	90	6	176	168	5,912	78	51
	1936	**207**			**53**	**1,856**	**6**	**3**
Clayoquot	1935	74			231	8,129	134	87
	1936	**33**			**311**	**10,894**	**112**	**50**
Quatsino	1935		34	985				
	1936							
Victoria	1935		9	246				
	1936		**37**	**1,066**				
Lillooet	1935	304,024	740	21,431	140,044	4,928,148	44,312	28,710
	1936	**385,546**	**618**	**17,803**	**145,505**	**5,097,040**	**53,939**	**24,341**
Clinton	1935	5,800	322	9,325	851	29,947	1,360	881
	1936	**12,352**	**322**	**9,276**	**8,553**	**299,612**	**13,038**	**5,884**
Ashcroft	1935	7,052	445	12,879	4,278	150,543	7,489	4,852
	1936		**278**	**8,009**				
Yale	1935	259	83	2,393	68	2,393	7	5
	1936	**1,161**	**54**	**1,556**	**163**	**5,710**	**3,722**	**1,630**
New Westminster	1935		214	6,194				
	1936		**84**	**2,420**				
Vancouver	1935	817,307			13,914	489,634	78,329	50,749
	1936	**1,314,609**	**113**	**3,255**	**14,197**	**497,321**	**90,822**	**40,985**
Totals	1935	4,916,149	30,929	†895,058	365,244	12,852,936	9,251,544	5,994,075
	1936	**4,456,521**	**43,389**	**1,249,940**	**404,472**	**14,168,654**	**9,521,015**	**4,296,548**

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

† Includes placer gold purchased by Gold Commissioners from "snipers" and others, who in many instances located in another division. In most cases the gold is credited to the mining division in which it was sold, this

GOLD, SILVER, COPPER, LEAD, AND ZINC IN 1935 AND 1936.

Copper.		Lead.		Zinc.		Totals for Divisions.		Totals for Districts.
Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	1935.	1936.	1936.
	$		$		$	$	$	$
.....	.....	.....	.....	.....	.....	.....	.....	2,833,186
.....	.....	.....	.....	.....	.....	382,797	.....	.....
.....	.....	1,139	45	.....	.....	.....	531,262	.....
.....	.....	.....	.....	.....	.....	10,522	.....	.....
.....	.....	.....	.....	.....	.....	.....	6,222	.....
.....	.....	.....	.....	.....	.....	8,234	.....	.....
.....	.....	.....	.....	.....	.....	.....	6,568	.....
23,558,968	1,836,422	.....	.....	.....	.....	2,198,888	.....	.....
450,615	42,705	2,751	107	.....	.....	.....	61,834	.....
35,401	2,759	466,233	14,607	69	2	1,636,954	.....	.....
873	82	864,074	33,811	.....	.....	.....	2,052,947	.....
10,420	812	.....	.....	.....	.....	238,104	.....	.....
7,354	697	.....	.....	.....	.....	.....	171,778	.....
.....	.....	.....	.....	.....	.....	3,519	.....	.....
.....	.....	.....	.....	.....	.....	.....	2,575	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	1,905,281
.....	.....	54	2	451	14	1,445,722	.....	.....
.....	.....	163	6	.....	.....	.....	1,635,103	.....
.....	.....	.....	.....	.....	.....	143,188	.....	.....
.....	.....	.....	.....	.....	.....	.....	207,733	.....
.....	.....	8,173	256	1,261	39	58,333	.....	.....
.....	.....	600	24	954	32	.....	52,881	.....
.....	.....	.....	.....	.....	.....	8,516	.....	.....
.....	.....	.....	.....	.....	.....	.....	9,564	.....
.....	.....	.....	.....	.....	.....	.....	.....	340,314
.....	.....	230,395	7,218	58,324	1,808	56,159	.....	.....
24,908	2,361	353,813	13,845	106,177	3,520	.....	70,590	.....
.....	.....	388	12	238	7	11,899	.....	.....
.....	.....	431	17	228	8	.....	5,038	.....
38,448	2,997	38,869	1,218	31,364	972	248,891	.....	.....
31,803	3,014	34,330	1,343	25,475	844	.....	264,686	.....
.....	.....	.....	.....	.....	.....	.....	.....	2,077,169
.....	.....	15,938	499	20,671	641	92,693	.....	.....
.....	.....	1,078	42	10,731	356	.....	46,110	.....
.....	.....	680,369	21,316	614,337	19,038	997,785	.....	.....
158,164	14,989	567,444	22,204	693,859	23,001	.....	599,481	.....
2,334	182	9,759	306	3,549	110	668,518	.....	.....
307,229	29,116	15,407	603	967	32	.....	1,428,499	.....
.....	.....	.....	.....	.....	.....	5,173	.....	.....
.....	.....	.....	.....	.....	.....	.....	3,079	.....
.....	.....	.....	.....	.....	.....	.....	.....	29,840,075
.....	.....	330,000,000	10,338,900	213,400,000	6,613,266	21,294,113	.....	.....
.....	.....	360,362,863	14,100,999	232,818,066	7,717,919	.....	25,027,509	.....
.....	.....	.....	.....	.....	.....	317	.....	.....
.....	.....	.....	.....	.....	.....	.....	432	.....
.....	.....	6,267,392	196,358	9,435,300	292,400	518,580	.....	.....
.....	.....	.....	.....	.....	.....	.....	115	.....
.....	.....	2,070,291	64,862	1,950,610	60,450	196,554	.....	.....
.....	.....	814,475	31,870	7,065	234	.....	41,699	.....
.....	.....	2,832,099	88,730	1,544,252	47,856	401,287	.....	.....
.....	.....	1,408,291	55,106	993,479	32,934	.....	192,246	.....
.....	.....	9,124	286	5,944	184	4,846	.....	.....
.....	.....	244	10	90	3	.....	2,450	.....
17,471	1,362	873,356	27,362	527,016	16,332	1,967,002	.....	.....
6,130	581	1,709,355	66,887	1,043,278	34,584	.....	3,020,253	.....
.....	.....	.....	.....	.....	.....	458	.....	.....
.....	.....	.....	.....	.....	.....	.....	58	.....
967,707	75,433	5,979	187	25,550,184	791,800	1,717,314	.....	.....
311,600	29,530	11,242,020	439,900	18,256,826	605,214	.....	1,448,627	.....
.....	.....	.....	.....	.....	.....	2,393	.....	.....
.....	.....	86,519	3,386	.....	.....	.....	8,914	.....
155	12	2,841	89	.....	.....	195,038	.....	.....
.....	.....	.....	.....	.....	.....	.....	97,772	.....
.....	.....	.....	.....	.....	.....	.....	.....	7,920,367
656	51	.....	.....	.....	.....	1,759	.....	.....
961	91	.....	.....	.....	.....	.....	2,408	.....
.....	.....	263	8	.....	.....	6,147	.....	.....
.....	.....	.....	.....	.....	.....	.....	1,859	.....
243	19	.....	.....	.....	.....	8,235	.....	.....
.....	.....	164	6	.....	.....	.....	10,950	.....
.....	.....	.....	.....	.....	.....	985	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	246	.....	.....
.....	.....	.....	.....	.....	.....	.....	1,066	.....
.....	.....	14,571	456	.....	.....	4,978,745	.....	.....
.....	.....	26,105	1,022	.....	.....	.....	5,140,206	.....
6,013	468	60	2	.....	.....	40,623	.....	.....
27,672	2,623	133	5	.....	.....	.....	317,400	.....
5,847	456	.....	.....	.....	.....	168,730	.....	.....
.....	.....	.....	.....	.....	.....	.....	8,009	.....
.....	.....	.....	.....	.....	.....	4,791	.....	.....
.....	.....	7,986	313	.....	.....	.....	9,259	.....
.....	.....	.....	.....	.....	.....	6,194	.....	.....
.....	.....	.....	.....	.....	.....	.....	2,420	.....
14,147,464	1,102,795	742,290	23,256	3,095,876	95,941	1,762,375	.....	.....
19,479,363	1,846,059	472,233	18,478	624,198	20,692	.....	2,426,790	.....
38,791,127	3,023,768	344,268,444	10,785,930	256,239,446	7,940,860	41,492,627	.....	.....
20,806,672	1,971,848	377,971,618	14,790,029	254,581,393	8.439.373	.....	44,916,392	44,916,392

obtained the gold in one mining division, but did not sell the gold until reaching the Gold Commissioner's office applying particularly to Vancouver and Victoria Mining Divisions.

TABLE IX.A.—PRODUCTION IN DETAIL OF PLACER GOLD, LODE

Districts and Divisions.	Year.	Tons.	Gold—Placer.		Gold—Lode.		Silver.	
			Ounces.	Value.	Ounces.	Value.	Ounces.	Value.
				$		$		$
North-western District (No. 1)								
Atlin	1932	30	8,040	155,684	218	5,117	86	27
	1933	30	11,299	265,751	103	2,946	64	24
Stikine	1932		37	727				
	1933		251	5,891				
Liard	1932		357	6,877				
	1933		200	4,690				
Nass River	1932	1,740,300			3,323	77,991	255,940	81,061
	1933	1,540,187			4,382	125,325	257,854	97,553
Portland Canal	1932	221,828			76,049	1,784,870	1,580,305	500,508
	1933	187,164			50,089	1,432,545	1,029,606	389,529
Skeena	1932	6	36	704	3	70	2	1
	1933	1,629	76	1,802	1,298	37,123	357	135
Queen Charlotte	1932		18	352				
	1933	400	65	1,516	53	1,516	25	10
Bella Coola	1932		3	47				
	1933		2	57				
North-eastern District (No. 2)								
Cariboo	1932		4,155	80,697				
	1933	19,769	4,897	115,172	7,660	219,076	823	311
Quesnel	1932		3,338	64,925				
	1933		2,772	65,179				
Omineca	1932	8	627	12,157	7	164	3	1
	1933	26	699	16,445	82	2,345	15	6
Peace River	1932		588	11,376				
	1933		300	7,064				
Central District (No. 3)								
Nicola	1932							
	1933	9			34	972	1,053	398
Vernon	1932		55	1,056				
	1933	390	63	1,487	119	3,403	18	7
Kamloops	1932		83	1,619				
	1933	43	249	5,863	194	5,549		
Southern District (No. 4)								
Grand Forks	1932	26,456			19.218	451,046	131,713	41,716
	1933	3,720			3,144	89,919	3,005	1,137
Greenwood	1932	3,412	180	3,474	414	9,717	595,470	188,595
	1933	3,627	250	5,891	427	12,212	558,472	211,286
Osoyoos	1932	386	2	47	1,367	32,084	203	64
	1933	2,605			1,799	51,451	2,695	1,020
Similkameen	1932	529	270	5,210	1	23	14,461	4,580
	1933		300	7,093				
Eastern District (No. 5)								
Fort Steele	1932	1,440,520	543	10,591			4,418,852	1,399,523
	1933	1,401,101	652	15,329	12	343	4,921,950	1,862,112
Windermere	1932							
	1933		35	829				
Golden	1932		6	117				
	1933	35,612	11	257			53,846	20,371
Ainsworth	1932	43	28	540	2	47	8,168	2,587
	1933		32	743				
Slocan	1932	248			6	141	18,845	5,968
	1933	783			12	343	47,240	17,872
Slocan City	1932	30			17	399	1,370	434
	1933	23			19	543	638	241
Nelson	1932	13,740	153	2,957	9,631	226,039	33,535	10,621
	1933	44,051	152	3,575	23,289	666,066	48,334	18,286
Arrow Lake	1932		4	71				
	1933		7	172				
Trail Creek	1932	505	7	141	1,489	34,947	641	203
	1933	11,960	71	1,659	9,313	266,352	12,273	4,643
Revelstoke	1932		908	17,632				
	1933		281	6,607				
Lardeau	1932	13	76	1,455	13	305		
	1933	1	50	1,173	2	57	2	1
Western District (No. 6)								
Nanaimo	1932	2			8	188	7	2
	1933	2	4	86	2	57	7	3
Alberni	1932		1	23				
	1933		25	600				
Clayoquot	1932	8	18	352	13	305	28	9
	1933	29	15	343	49	1,401	31	12
Quatsino	1932							
	1933							
Victoria	1932		2	47				
	1933		6	143				
Lillooet	1932	82,657	293	5,633	60,540	1,420,874	11,778	3,730
	1933	154,242	407	9,581	108,298	3,097,323	24,668	9,333
Clinton	1932	25	199	3,849	28	657		
	1933		225	5,291				
Ashcroft	1932		128	2,464				
	1933	657	320	7,522	330	9,438	638	241
Yale	1932	148	224	4,319	344	8,074	79	25
	1933		105	2,459				
New Westminster	1932		21	399				
	1933		107	2,517				
Vancouver	1932	809,264			8,873	208,249	59,352	18,798
	1933	622,718			12,819	366,624	42,792	16,189
Totals	1932	4,340,158	20,400	395,542	181,564	4,261,307	7,130,838	2,258,453
	1933	4,030,778	23,928	562,787	223,529	6,392,929	7,006,406	2,650,720

NOTE.—The above table is published to serve as a record to show gold (fine ounces) valued at average prices for 1932 and was $28.60. In the Annual Reports for 1932 and 1933 the old standard price was used and should be noted when reference

Gold, Silver, Copper, Lead, and Zinc in 1932 and 1933.

Copper.		Lead.		Zinc.		Totals for Divisions.		Totals for Districts.
Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	1932.	1933.	1933.
	$		$		$	$	$	$
								4,951,883
						160,828		
							268,721	
						727		
							5,891	
						6,877		
							4,690	
38,293,437	2,443,198					2,602,250		
34,416,459	2,565,678						2,788,556	
35,933	2,293	1,127,932	23,840			2,311,511		
29,749	2,218	731,435	17,493	2,400	77		1,841,862	
						775		
53	4						39,064	
						352		
							3,042	
						47		
							57	
								425,598
						80,697		
							334,559	
						64,925		
							65,179	
						12,322		
							18,796	
						11,376		
							7,064	
								17,967
		7,762	186	1,206	39		1,595	
						1,056		
							4,897	
						1,619		
848	63						11,475	
								406,404
13,402	855	198,955	4,205	402,479	9,682	507,504		
		7,215	172	16,498	529		91,757	
1,349	86	303,950	6,424	462,626	11,129	219,425		
		381,175	9,116	516,262	16,575		255,080	
		131,581	2,781			34,976		
		112	3				52,474	
				22,458	540	10,353		
							7,093	
								15,376,907
		251,308,444	5,311,655	190,427,427	4,580,922	11,302,691		
		260,369,484	6,226,996	180,116,639	5,782,645		13,887,425	
							829	
						117		
		8,108,250	193,917	6,270,700	201,321		415,866	
		20,949	443	8,661	209	3,826		
							743	
		116,146	2,455	22,892	551	9,115		
		329,095	7,871	106,716	3,426		29,512	
						833		
							784	
		616,145	13,023	773,548	18,608	271,248		
		698,904	16,715	987,070	31,689		736,331	
						71		
							172	
						35,291		
331,514	24,713	486	12	825	27		297,406	
						17,632		
							6,607	
						1,760		
		46	1				1,232	
								4,391,165
						190		
							146	
						23		
							600	
						666		
							1,756	
						47		
							143	
						1,430,237		
							3,116,237	
						4,506		
							5,291	
						2,464		
158	12						17,213	
						12,418		
							2,459	
						399		
							2,517	
11,496,888	733,524	664,850	14,052			974,623		
7,829,221	583,653	972,107	23,249	7,945,435	255,088		1,244,803	
49,841,009	3,179,956	254,488,952	5,378,878	192,120,091	4,621,641	20,095,777		
42,608,002	3,176,341	271,606,071	6,495,731	195,963,751	6,291,416		25,569,924	25,569,924

1933, as distinct from the old standard price of $20.671834. The price of a fine ounce of gold in 1932 was $23.47 and in 1933 to value is contemplated.

TABLE X.—Production in Detail of Structural Materials, 1936.

District and Division.	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 (No. 1)															71,014
Atlin, Liard, and Stikine				300	4,695									4,995	
Nass River															
Portland Canal					263									263	
Skeena and Queen Charlotte				9,362	35,146									44,508	
Bella Coola		10,570		2,822	7,856									21,248	
North-eastern District (No. 2)															70,124
Cariboo and Quesnel				1,600	22,585									24,185	
Omineca and Peace River		72		35,618	10,249									45,939	
Central District (No. 3)															45,380
Nicola, Vernon, and Kamloops			3,500	7,174	28,311	3,485				2,433	477			45,380	
Southern District (No. 4)															39,213
Grand Forks and Greenwood				5,500	2,620									8,120	
Osoyoos		4,560		1,627	18,009									24,196	
Similkameen				957	5,366								574	6,897	
Eastern District (No. 5)															142,412
Fort Steele			620	23,919	37,101									61,640	
Windermere and Golden				5,216	6,750									11,966	
Ainsworth					14,263									14,263	
Slocan and Slocan City															
Nelson			4,796	7,032	16,939									28,767	
Trail Creek				1,300	19,702									21,002	
Revelstoke				397	4,377									4,774	
Western District (No. 6)															1,428,534
Nanaimo and Alberni		104,789	123,860	3,512	16,361	7,419	113			934				256,988	
Victoria and Quatsino	516,931	10,167		30,014	57,240	14,286					5,980	2,875	793	638,286	
Lillooet				5,253	7,160									12,413	
Yale					19,500									19,500	
Clinton															
Ashcroft				7,749										7,749	
Vancouver			42,450	10,654	54,120									107,224	
New Westminster		7,000		48,172	89,284	21,247	19,500	115,121	7,657	30,077	47,722		594	386,374	
Totals	516,931	137,158	175,226	208,178	477,897	46,437	19,613	115,121	7,657	33,444	54,179	2,875	1,961	1,796,677	1,796,677

TABLE XI.—PRODUCTION IN DETAIL OF MISCELLANEOUS METALS, MINERALS, AND MATERIALS, 1936.

District and Division.	Bismuth.	Cadmium.	Diatomite.	Flux (Limestone and Quartz).	Gypsum Products.	Iron (Bog and Ochre).	Platinum.	Slate and Green-rock Granules.	Soda and Magnesium Sulphate.	Sulphur (Elemental) and Sulphur Content of Pyrite and Sulphuric Acid Manufactured.	Talc.	Others.	Division Totals.	District Totals.
	$	$	$	$	$	$	$	$	$	$	$	$	$	$
North-western District (No. 1)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atlin, Stikine, and Liard	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nass River	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portland Canal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Skeena and Queen Charlotte	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bella Coola	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North-eastern District (No. 2)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	558
Cariboo and Quesnel	.....	.....	350	.....	.....	.....	.....	168	.....	.....	.....	.....	518	.....
Omineca and Peace River	.....	.....	.....	.....	.....	.....	40	.....	.....	.....	.....	.....	40	.....
Central District (No. 3)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	138,137
Nicola, Vernon, and Kamloops	.....	.....	.....	.....	124,425	.....	.....	.....	13,712	.....	.....	.....	138,137	.....
Southern District (No. 4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13,033
Grand Forks and Greenwood	.....	.....	.....	11,436	.....	.....	.....	.....	.....	.....	.....	.....	11,436	.....
Osoyoos and Similkameen	.....	.....	.....	788	.....	.....	809	.....	.....	.....	.....	.....	1,597	.....
Eastern District (No. 5)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,275,610
Fort Steele	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windermere and Golden	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ainsworth	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Slocan and Slocan City	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nelson and Arrow Lake	.....	.....	.....	2,323	.....	.....	.....	.....	.....	.....	.....	.....	2,323	.....
Trail Creek and Revelstoke	357,007	468,170	.....	.....	.....	.....	.....	.....	.....	448,110	.....	.....	1,273,287	.....
Western District (No. 6)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	219,058
Nanaimo and Alberni	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	8	.....
Victoria and Quatsino	.....	.....	.....	.....	.....	.....	.....	2,479	.....	.....	.....	.....	2,479	.....
Lillooet and Clinton	.....	.....	.....	.....	.....	.....	81	.....	1,677	.....	162	.....	1,920	.....
Yale and Ashcroft	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49,971	49,971	.....
Vancouver and New Westminster	.....	.....	.....	.....	.....	4,000	.....	.....	.....	160,680	.....	.....	164,680	.....
Totals	357,007	468,170	350	14,555	124,425	4,000	930	2,647	15,389	608,790	162	49,971	1,646,396	1,646,396

TABLE XII.—British Columbia Mine Production, 1895–1936.

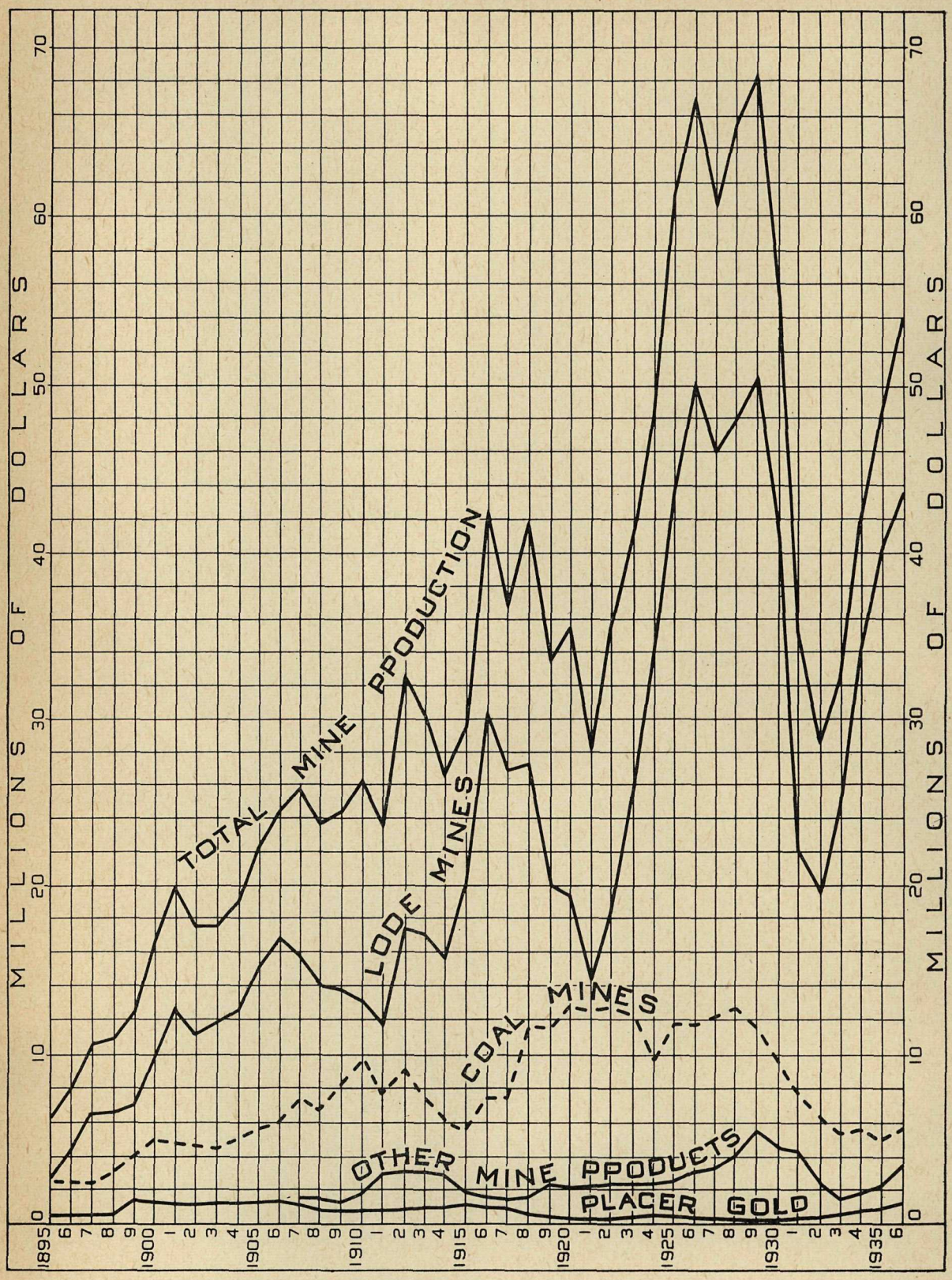


TABLE XIII.—PRODUCTION OF LODE MINES IN BRITISH COLUMBIA, 1913–1936.

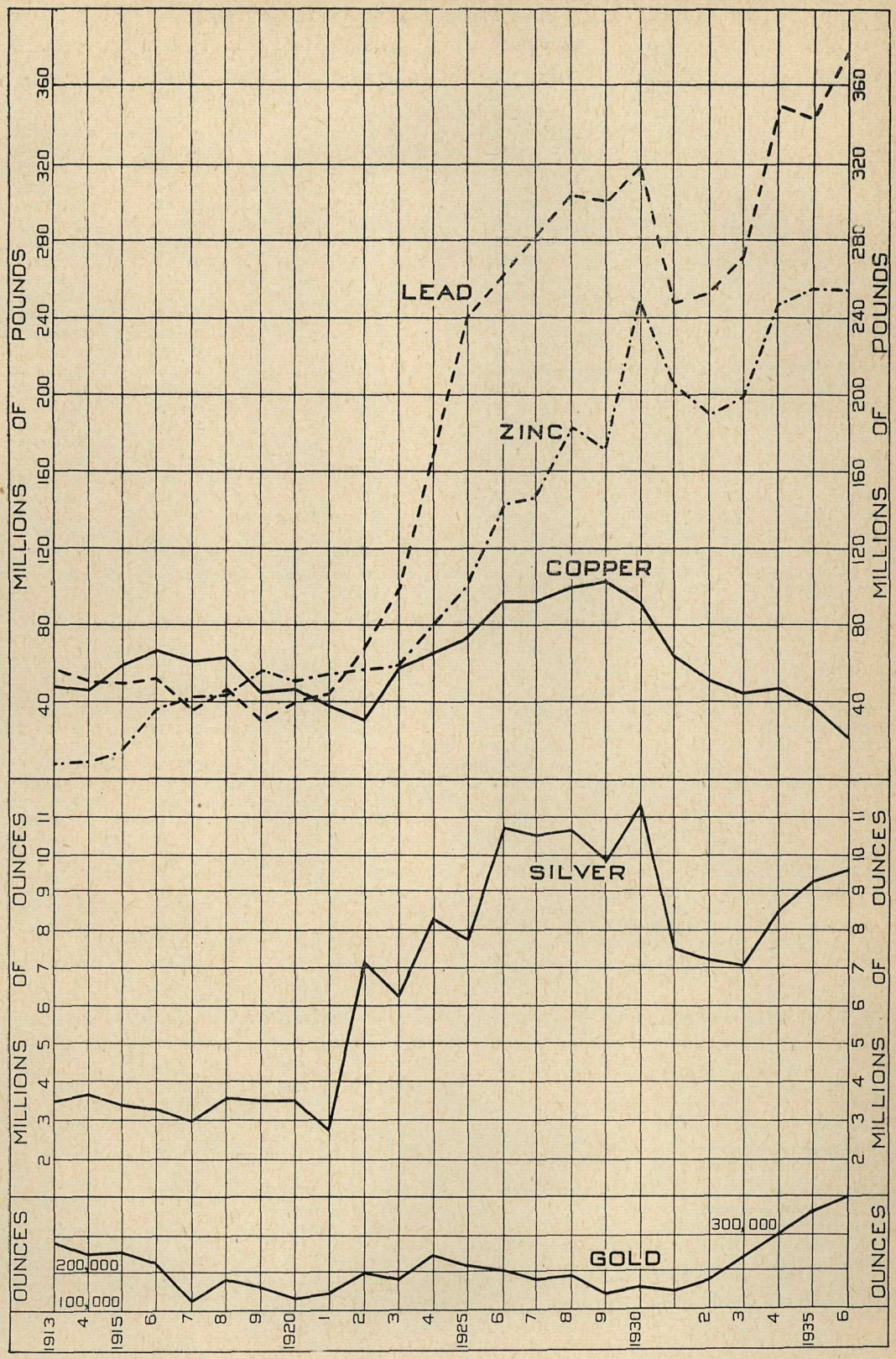


TABLE XIV.—Coal Production per Year to Date.*

	Tons. (2,240 lb.)	Value.		Tons. (2,240 lb.)	Value.
1836–1885	3,029,011	$9,468,557	1912	2,628,804	$9,200,814
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			
1911	2,193,062	7,675,717	Totals	85,764,391	$340,699,557

* 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, 1935 and 1936.

Description.	1935.		1936.	
	Quantity.	Value.	Quantity.	Value.
Coal used in making coke, long tons	114,104	$494,492	112,348	$436,595
Coke made in bee-hive ovens, long tons	24,170	$160,565	30,370	$191,843
Coke made in by-product ovens, long tons	13,316	109,684	.....	.....
Coke made in gas plants, long tons	41,177	160,694	43,632	138,787
Total coke made, long tons	78,663	$430,943	74,002	$330,630
Gas made, purchased, and sold	.....	1,430,057	.....	1,422,783
Tar produced	.....	44,876	.....	38,872
Other by-products	.....	3,081	.....	.....
Total production value of coke industry	.....	$1,908,957	.....	$1,792,285

TABLE XVII.—Dividends paid by Mining Companies, 1897–1936.

Lode-gold Mines.

Company or Mine.	Locality.	Class.	Amount paid.
Arlington	Erie	Gold	$42,678
Athabasca	Nelson	Gold	25,000
Bralorne	Bridge River	Gold	1,486,150
Belmont-Surf Inlet	Princess Royal Island	Gold	1,437,500
Cariboo Gold Quartz	Wells	Gold	133,331
Cariboo-McKinney	Camp McKinney	Gold	565,588
Canadian Pacific Exploration	Nelson	Gold	37,500
Centre Star	Rossland	Gold	472,255
Fern	Nelson	Gold	15,000
Goodenough	Ymir	Gold	13,931
Island Mountain	Wells	Gold	105,072
I.X.L.	Rossland	Gold	131,633
Jewel-Denero	Greenwood	Gold	11,751
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	5,130,193
Poorman	Nelson	Gold	25,000
Premier	Premier	Gold	18,858,075
Queen	Sheep Creek	Gold	85,000
Relief	Erie	Gold	5,000
Reno	Sheep Creek	Gold	474,840
Sheep Creek Mines, Ltd.	Sheep Creek	Gold	112,500
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	111,250
Miscellaneous mines		Gold	23,530
Total, lode-gold mines			$37,618,815

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	79,200
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	60,211,325
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	14,803
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
Lucky Jim	Three Forks	Silver-lead-zinc	80,000
Mercury	Sandon	Silver-lead-zinc	6,000
Meteor	Slocan City	Silver-lead-zinc	10,257
Carried forward			

TABLE XVII.—DIVIDENDS PAID BY MINING COMPANIES, 1897–1936—*Continued.*

Silver-lead-zinc Mines—Continued.

Company or Mine.	Locality.	Class.	Amount paid.
Brought forward			
Monitor and Ajax	Three Forks	Silver-lead-zinc	27,500
Mountain Con	Cody	Silver-lead-zinc	71,387
McAllister	Three Forks	Silver-lead-zinc	33,694
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			$70,861,364

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.

† 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 will conduct 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, 1897–1936—*Continued.*

Coal.

Wellington Collieries, Ltd., Nanaimo	$16,000,000
Crow's Nest Pass Coal Co., Ltd., Fernie	11,733,456
Total	$27,733,456

Miscellaneous and Structural.

Various	$1,376,600

Aggregate of all Classes.

Lode-gold mining	$37,618,815
Silver-lead-zinc mining	70,861,364
Copper-mining	15,797,718
Coal-mining	27,733,456
Miscellaneous and structural	1,376,600
Total	$153,387,953

Dividends paid during 1927–1936, inclusive.

Year.	Amount paid.	Year.	Amount paid.
1927	$8,816,681	1933	$2,471,735
1928	9,572,536	1934	4,745,905
1929	11,263,118	1935	7,386,070
1930	10,543,500	1936	10,513,705
1931	4,650,857		
1932	2,786,958	Total	$72,751,065

Dividends paid during 1935 and 1936.

Company.	1935.	1936.
Beaverdell-Wellington	$36,000	$18,000
Bell Mines, Ltd.	50,501	25,403
Bralorne Mines, Ltd.	300,000	561,150
Cariboo Gold Quartz Mines, Ltd.	.....	133,331
The Consolidated Mining and Smelting Co. of Canada, Ltd.	4,232,452	6,515,943
Crow's Nest Pass Coal Co., Ltd.	372,708	434,826
Highland Bell, Ltd.	.....	14,803
Highland Lass, Ltd.	52,369	.....
Island Mountain Mines, Ltd.	.....	105,072
Pioneer Gold Mines of B.C., Ltd.	1,401,400	1,401,400
Premier Gold Mining Co, Ltd.	650,000	800,000
Reno Gold Mines, Ltd.	255,683	219,157
Sheep Creek Gold Mines, Ltd.	.....	112,500
Ymir Yankee Girl Mines, Ltd.	.....	111,250
Others	34,957	60,870
Totals	$7,386,070	$10,513,705

TABLE XVIII.—Capital employed, Salaries and Wages, Fuel and Electricity, and Process Supplies, 1936.

Mineral Survey District and Class.	Capital employed.	Salaries and Wages.	Fuel and Electricity.	Process Supplies.
	$	$	$	$
No. 1, North-western—				
Lode-mining	6,904,335	953,070	41,531	321,002
Placer-mining	148,361	166,451	18,987	11,729
Coal-mining	----------	----------	----------	----------
Miscellaneous	----------	----------	----------	----------
Structural	178,308	12,881	16,816	2,903
Totals	7,231,004	1,132,402	77,334	335,634
No. 2, North-eastern—				
Lode-mining	3,393,608	604,720	71,893	142,831
Placer-mining	3,914,498	433,668	33,176	14,962
Coal-mining	37,112	28,676	----------	----------
Miscellaneous	550	----------	----------	----------
Structural	----------	----------	----------	----------
Totals	7,345,768	1,067,064	105,069	157,793
No. 3, Central—				
Lode-mining	1,449,210	166,526	24,526	47,816
Placer-mining	107,131	22,600	750	200
Coal-mining	123,737	92,931	6,663	----------
Miscellaneous	228,947	49,503	10,793	1,919
Structural	25,932	5,404	959	25
Totals	1,934,987	336,964	43,691	49,960
No. 4, Southern—				
Lode-mining	4,829,310	594,549	53,482	247,423
Placer-mining	12,000	2,578	----------	----------
Coal-mining	2,875,597	389,481	62,691	165
Miscellaneous	----------	----------	----------	----------
Structural	----------	1,200	1,912	55
Totals	7,716,907	987,808	118,085	247,643
No. 5, Eastern—				
Lode-mining	63,912,659	7,508,670	1,399,520	1,920,000
Placer-mining	48,400	17,437	684	3,711
Coal-mining	6,343,164	793,788	26,165	----------
Miscellaneous	498,049	48,694	632	12
Structural	33,284	5,065	522	130
Totals	70,835,556	8,373,654	1,727,523	1,923,853
No. 6, Western—				
Lode-mining	18,894,236	2,778,648	241,395	1,488,723
Placer-mining	524,552	7,490	62	12
Coal-mining	10,757,686	2,317,298	210,301	----------
Miscellaneous	15,246,809	497,723	129,834	163,802
Structural	2,175,560	388,568	70,850	67,081
Totals	47,598,843	5,989,727	652,442	1,719,618
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 1936, 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, 1901–1936.

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
No. 1 District	**1936**	**228,321**	**20**	**10**	**2,065,699**	.....
No. 2 District	**1936**	**95,419**	**3**	**2**	**1,286,690**	.....
No. 3 District	**1936**	**37,273**	**7**	**3**	**285,514**	.....
No. 4 District	**1936**	**138,649**	**35**	**16**	**1,739,428**	.....
No. 5 District	**1936**	**2,242,681**	**82**	**29**	**17,511,877**	.....
No. 6 District	**1936**	**1,714,178**	**21**	**10**	**7,086,400**	.....
Totals	**1936**	**4,456,521**	**168**	**70**	**$29,975,608**	**$43,666,452**
Grand totals	1901–1936	113,021,268	.....	....	.....	916,577,426

TABLE XX.—Men employed in the Mining Industry of British Columbia, 1901–1936.

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
No. 1 District	**1936**	**276**	**257**	**328**	**585**	**57**	.....	.....	.....	.....	**71**	.....	.....	**989**
No. 2 District	**1936**	**633**	**231**	**133**	**364**	**28**	.....	**8**	**2**	**10**	**80**	.....	.....	**1,146**
No. 3 District	**1936**	**31**	**63**	**50**	**113**	**16**	.....	**77**	**33**	**110**	**41**	**7**	**14**	**332**
No. 4 District	**1936**	**31**	**248**	**154**	**402**	**125**	.....	**267**	**148**	**415**	**56**	**1**	**1**	**1,031**
No. 5 District	**1936**	**54**	**1,140**	**548**	**1,688**	**343**	**2,678**	**459**	**147**	**606**	**191**	**2**	**590**	**6,152**
No. 6 District	**1936**	**99**	**1,020**	**627**	**1,647**	**151**	.....	**1,204**	**469**	**1,673**	**492**	**278**	**220**	**4,560**
Totals	**1936**	**1,124**	**2,959**	**1,840**	**4,799**	**720**	**2,678**	**2,015**	**799**	**2,814**	**931**	**288**	**826**	**14,180**

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1936.

Mine or Group.	Location of Mine or Mill.	Owner or Agent.	Rated Daily Capacity. 1935.	Rated Daily Capacity. 1936.	Operating at.	Date of First Operation.	Process.	Character of Ore.
			Tons.	Tons.	Tons.			
Banker	Tulsequah, Taku River	J. F. Mullen, Juneau, Alaska						Silver, gold, lead.
Dunwell	Stewart	Welldun M.M. & Power Co., Stewart	20	20	20	1927	Flotation	Silver, gold, lead.
Lakeview	Stewart	Rochfort *et al.*, leasers						Silver, gold, lead.
Mayflower	Stewart							Silver, gold.
Morning	Stewart	S. Deschamps, Stewart						Silver, lead.
Premier	Salmon River	Silbak Premier Mines, Ltd.	500	500	500	July, 1922	Flotation	Gold, silver, lead, copper.
United Empire	Stewart	United Empire Gold and Silver Mining Co., Ltd., Vancouver						Silver, gold, lead.
Casey & Morin	Stewart	A. R. Casey and J. Morin, Stewart						Gold, silver.
McDonald, B. T.	Stewart	B. T. McDonald, Stewart						Silver, copper, lead.
Rennie, J.	Stewart	John Rennie, Stewart						Silver, gold, lead, copper.
Kansas	Stewart	S. Deschamps, Stewart						Silver, gold, lead.
Edye Pass	Refuge Bay, Porcher Island	F. J. Patterson and Reward Mining Co., Ltd., Porcher Island						Gold, silver.
Surf Inlet	Princess Royal Island	Surf Inlet Cons. Gold Mines, Ltd., Vancouver	100	100	‡100	Aug., 1917	Table concentration; flotation	Gold, silver, copper.
Surf Point	Porcher Island	N. A. Timmins Corporation, Porcher Island	20	22	22	July, 1933	Flotation	Gold, silver.
Esperanza	Alice Arm, Kitsault River	Esperanza Mines, Ltd., Victoria		20	20	Aug., 1936	Flotation	Silver, gold, copper, lead.
Eklund (Granby Point mine)	Anyox	C. Eklund, leaser, Anyox						Silver, gold, lead.
Granby	Anyox	Granby M.S. & P. Co., Vancouver	*					Clean-up material.
Easter	Queen Charlotte City	Skidegate Gold Mines, Ltd.		50	50	Nov., 1936	Cyanidation	Gold, silver.
Cariboo Gold	Wells	Cariboo Gold Quartz Mining Co., Ltd., Wells	150	200	200	Jan., 1933	Cyanidation	Gold, silver.
Island Mountain	Wells	Island Mountain Mines, Ltd., Wells	100	125	125	Nov., 1934	Cyanidation	Gold, silver.
Silver Pick (formerly Little Joe)	Smithers	J. J. Herman, Grand Forks						Silver, gold, lead, zinc.
Homestake	Adams Lake	Kamloops Homestake Mines, Ltd., Vancouver	50	50	‡50	Oct., 1935	Flotation	Gold, silver, lead.
Windpass	Dunn Lake, near Chu Chua	Windpass Gold Mining Co., Ltd., Vancouver	60	50	50	Mar., 1934	Flotation	Gold, silver, copper.
Planet	Stump Lake	Nicola Mines and Metals, Ltd., Vancouver	100	60	60	1929	Flotation	Gold, silver, lead, copper.
Kalamalka	Lavington	Kalamalka Gold Mines, Ltd., Vancouver						Gold, silver, copper.
Lightning Peak	Edgewood	W. A. Calder, Edgewood						Silver, lead, zinc.

* Closed down, August, 1935. ‡ Intermittent.

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1936—*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.
			1935.	1936.				
			Tons.	Tons.	Tons.			
Skookum	Vernon	Jardave Exploration Syndicate, Vancouver						Silver, gold, lead.
Empire	Oliver	H. J. Edmonds, Oliver						Silver, gold.
Fairview-Amalgamated	Fairview	Fairview Amalgamated Gold Mines, Ltd., Vancouver	100	100	100	Aug., 1935	Amalgamation; blanket-tables; flotation	Gold, silver, lead.
Gold Standard	Oro Fino Mountain	Gold Standard (Fairview) Mining Co., Ltd., Penticton						Gold, silver.
Grandora	Oliver	Grandoro Mines, Ltd., Vancouver						Gold.
Hedley Mascot	Hedley	Hedley Mascot Gold Mines, Ltd., Vancouver		150	150	May, 1936	Flotation	Gold, silver, copper.
Kelowna Exploration	Hedley	Kelowna Exploration Co., Ltd., Hedley	200	200	200	Sept., 1934	Cyanidation; flotation	Gold, silver, copper.
Osoyoos	Osoyoos	Osoyoos Mines, Ltd., Calgary	50	50	50	Mar., 1936	Table concentration; flotation	Gold, silver, copper.
English & French	Grand Forks	D. M. McKay, Grand Forks						Silver, lead, zinc.
Union	Granby River, Grand Forks	J. F. McCarthy, Grand Forks	200	200	†200	Jan., 1930	Cyanidation	Gold, silver.
Yankee Boy	Grand Forks	Reigel Mines, Ltd., Grand Forks						Gold, silver.
Athelstan	Phoenix	W. E. McArthur, Jr., Greenwood						Gold, silver.
Amandy	Jewel Lake	E. C. Henniger, Grand Forks						Gold, silver.
Amandy	Jewel Lake	V. Falsetto, C. W. Gibbard, J. Flaten, and J. Henderson, Rossland						Gold, silver.
Bay	Greenwood	W. E. McArthur, Jr., Greenwood						Gold, silver.
Beaver	Beaverdell	Beaver Silver Mines, Ltd., Greenwood						Silver, gold, zinc, lead.
Bell	Beaverdell	Bell Mines, Ltd., Penticton						Silver, gold, zinc, lead.
Brooklyn	Greenwood	W. E. McArthur, Jr., Greenwood						Silver, gold, copper.
Carmi	Carmi	R. Legiest *et al.*, Carmi						Gold, silver.
Dentonia	Jewel Lake	Dentonia Mines, Ltd., Calgary	100	100	100	April, 1934	Flotation	Gold, silver, lead.
Dynamo	Greenwood	R. Forshaw, Greenwood						Gold, silver.
Granby (Phoenix)	Greenwood	W. E. McArthur, Jr., Greenwood		50	50	Sept., 1936	Flotation	Silver, gold, copper.
Highland Bell	Beaverdell	Highland Bell, Ltd., Penticton						Silver, gold, zinc, lead.
Highland Lass, Ltd.	Beaverdell	Highland Lass, Ltd., Kelowna						Silver, gold, zinc, lead.
Imperial	Rock Creek	D. M. McKay, Grand Forks						Silver, gold, zinc, lead.
Keno	Greenwood	L. Manzini *et al.*, Greenwood						Silver, gold, zinc.
Mogul	Rock Creek	C. Sherdahl *et al.*, Rossland						Gold, silver.
North Star	Greenwood	W. E. McArthur, Jr., Greenwood						Gold, silver.
Number Seven	Greenwood	W. E. McArthur, Jr., Greenwood						Silver, gold, lead.
Providence	Greenwood	Wm. Madden, Greenwood						Silver, gold, zinc, lead.
Rambler	Beaverdell	H. E. Growdon, Beaverdell						Silver, zinc, lead.

† Tailings treated; mill dismantled, August, 1935.

			Tons.	Tons.	Tons.			
Sally	Beaverdell	Sally Mines, Ltd., Penticton						Silver, gold, zinc, lead.
Silver Cloud	Greenwood	Mrs. E. Hallett, Greenwood						Silver, gold, lead, zinc.
Skylark	Greenwood	W. E. McArthur, Jr., Greenwood						Silver, gold, zinc, lead.
Tiger	Beaverdell	J. L. Nordman & Partner, Beaverdell						Silver, zinc, lead.
Wellington	Beaverdell	Beaverdell-Wellington Syndicate, Greenwood						Silver, gold, zinc, lead.
Hanson	Tulameen	Max Hanson, Tulameen						Gold, silver.
Silver Key	Canal Flats	Messrs. Bryant and A. McLeod, Canal Flats						Silver.
Sullivan	Kimberley	Consolidated M.S. & P. Co. of Canada, Ltd., Trail	6,000	6,000	6,000	Aug., 1923	Flotation	Silver, lead, zinc.
Gold Viking	Slocan City	Geo. Henderson, Slocan City						Silver, gold.
Little Daisy	Slocan City	A. Erickson, Slocan City						Silver, gold.
Meteor	Slocan City	R. J. Johnson *et al.*, Slocan City						Silver, gold.
Morning Star	Springer Creek	H. E. Scovil, Slocan						Silver, gold, lead, zinc.
Black Colt	Sandon	E. J. Vandergrift, Sandon						Silver, gold, lead, zinc.
Bosun	New Denver	J. L. Irwin, agent, New Denver						Silver, gold, zinc, lead.
Chapleau	Slocan City	A. G. Ewing *et al.*, Slocan City						Silver, gold.
Cinderella	Sandon	G. B. Dean and E. Doney, Sandon						Silver, lead.
Cliff	Silverton	J. H. Dalzell, leaser, Silverton						Silver, lead, zinc.
Elkhorn	Sandon	A. T. Forsythe *et al.*, Sandon						Silver, lead, zinc.
Hinckley	Sandon	A. Johnson, Sandon						Silver, lead.
Jackson	Retallack	Jackson Mines, Ltd., Vancouver						Silver, zinc, lead.
Mammoth	New Denver	Western Exploration Co., Ltd., Silverton	150	150	150	July, 1935§	Table concentration; flotation	Silver, zinc, lead.
Molly Hughes	New Denver	Molly Hughes Mining Co., New Denver						Silver, gold, lead, zinc.
Galena Farm	Silverton	Galena Farm Cons. Mines, Ltd., Vancouver						Silver, lead.
Hewitt	Silverton Creek	Galena Farm Cons. Mines, Ltd., Vancouver						Silver, lead.
McAllister	Three Forks	Denver Mining Syndicate, New Denver						Silver, gold.
Noble Five	Cody	Noble Five Mines, Ltd., Nelson						Silver, lead, zinc.
Number One	Sandon	J. M. Harris, manager, Sandon						Silver, gold, lead, zinc.
Palmita	Alamo	C. Cunningham, Alamo						Silver, lead.
Queen Bess	Alamo	C. Cunningham, Alamo						Silver, lead, zinc.
Rio	Silverton	J. H. Pendry and W. R. George, New Denver						Silver, lead, zinc.
Silversmith	Sandon	Messrs. Stewart and Tattrie, leasers		150		1922‖	Table concentration; flotation	Silver, lead, zinc.
Slocan Monitor	Three Forks	Slocan Monitor Mines, Ltd., Nelson						Silver, lead.
Sovereign	Alamo	Cunningham Mines, Ltd., Alamo						Silver, lead, zinc.
Standard	Silverton	Western Exploration Co., Silverton						Silver, zinc, lead.
Victor	Sandon	E. Doney, lessee, Sandon						Silver, lead, zinc.
Wonderful	Sandon	W. D. Pengelly, Sandon						Silver, lead, zinc.
Arlington	Erie Creek	R. O. Oscarson, lessee, Erie						Gold, silver.
Athabasca	Nelson	Noble Five Mines, Ltd., Nelson	‖25			1920	Amalgamation; cyanidation	Gold, silver, lead.
Bayonne	Tye	Bayonne Cons. Mines, Ltd., Vancouver		50	50	Nov., 1936	Cyanidation	Gold, silver.
Black Cock	Ymir	Black Cock Mines, Ltd., Nelson						Gold, silver, lead, zinc.
Boulder City	Salmo	Clubine Comstock Gold Mines, Ltd., Nelson						Gold, silver.
California	Nelson	C. M. Stevenson *et al.*, leasers, Nelson						Gold, silver.
Catharine	Nelson	W. Jarvis, Nelson						Gold, silver, lead, zinc.

§ Inoperative since March, 1936. ‖ Idle at present.

TABLE XXI.—METALLIFEROUS MINES SHIPPING IN 1936—*Continued.*

Mine or Group.	Location of Mine or Mill.	Owner or Agent.	Rated Daily Capacity. 1935.	Rated Daily Capacity. 1936.	Operating at.	Date of First Operation.	Process.	Character of Ore.
			Tons.	Tons.	Tons.			
Gold Bank	Erie	Gold Bank Mining Syndicate, Trail						Gold, silver.
Gold Fern	Nelson	Gold Fern Mines, Ltd., Nelson						Gold, silver.
Granite	Taghum	Livingstone Mining Co., Ltd., Blewett	25	30	30	Sept., 1934	Amalgamation ; concentration	Gold, silver.
Great Eastern	Nelson	Rolick Bros., Nelson						Gold, silver.
Harriet	Erie	C. A. Cawley & Associates, Salmo						Gold, silver.
Keystone	Erie	Dufferin Golds, Ltd., Vancouver						Gold, silver, lead, zinc.
Kootenay Belle	Sheep Creek	Kootenay Belle Gold Mines, Ltd., Vancouver	50	100	100	Oct., 1934	Cyanidation	Gold, silver, lead, zinc.
Kootenay Ore Hill	Sheep Creek	Kootenay Ore Hill Gold Mines, Ltd., Vancouver.		15	15	Dec., 1936	Concentration	Gold, silver, lead, zinc.
Lone Silver	Sheep Creek	S. A. Heidler *et al.*, Rossland						Gold, silver, lead, zinc.
Michaely	Pend d'Oreille River	Michaely Silver Lead Mines, Ltd., Trail						Gold, silver, lead, zinc.
Perrier	Nelson	J. Flagel, leaser, Nelson, from Perrier Gold Mines, Ltd., Nelson		‖50		1936	Amalgamation ; flotation	Gold, silver, lead, zinc.
Relief-Arlington	Erie	Relief Arlington Mines, Ltd., Erie	70	75	75	1933	Amalgamation ; flotation ; cyanidation	Gold, silver, lead, zinc.
Reno	Sheep Creek	Reno Gold Mines, Ltd., Vancouver	120	120	120	Dec., 1932	Cyanidation	Gold, silver, lead, zinc.
Sheep Creek	Sheep Creek	Sheep Creek Gold Mines, Ltd., Vancouver	150	150	150	May, 1935	Cyanidation	Gold, silver.
Silver King	Nelson	J. Pavich & Co., Nelson						Gold, silver, copper.
Venus-Juno	Nelson	G. T. Gormley, leaser, Nelson						Gold, silver, lead.
Virginia	Nelson	J. W. Mulholland, Nelson						Gold, silver.
Wesko	Ymir	Wesko Mines, Ltd., Nelson		100	100	Oct., 1936	Flotation ; cyanidation	Gold, silver, lead, zinc.
Wilcox	Ymir	Wilcox Mining Syndicate, Ymir	20	20	‡20	1933	Amalgamation	Gold, silver, lead, zinc.
Yankee Girl	Ymir	Ymir Yankee Girl Gold Mines, Ltd., Ymir	100	100	100	Dec., 1934	Cyanidation ; flotation	Gold, silver, lead, zinc.
Ymir-Con.	Ymir	Ymir Cons. Gold Mines, Ltd., Vancouver	100	100	‡100	July, 1935	Amalgamation ; flotation	Gold, silver, lead, zinc.
Banker	Ainsworth	Leasers from H. Giegerich, Kaslo						Silver, lead.
Banker	Ainsworth	Ainsworth Mines, Ltd., Ainsworth						Silver, lead.
Casetto	Ainsworth	J. Casetto, Ainsworth						Silver, lead.
Horsehoe	Ainsworth	H. Lind, Kaslo						Silver, lead.
International	Ainsworth	International Mines, Inc., c/o J. Thronson, 502 Guardian Bldg., Portland, Oregon						Silver, lead, zinc.
Krao	Keen Creek	Krao Mines, Ltd., Kaslo						Silver, lead.
Whitewater	Retallack	O. Larsen, leaser from Whitewater Mines, Ltd., Kaslo						Silver, lead.
Meridian	Camborne	Meridian Mining Co., Ltd., Vancouver	100	100	‖100	Jan., 1935	Flotation	Gold, silver.
Allco	Albert Canyon	Allco Silver Mines, Ltd., Vancouver						Silver, gold, lead.
Cliff	Rossland	H. Hanson and F. Birch, Rossland						Gold, silver.

‡ *Intermittent.* ‖ *Idle at present.*

			Tons.	Tons.	Tons.			
Evening Star	Rossland	J. Heap *et al.*, Rossland						Gold, silver.
Evening Star	Rossland	M. E. Norris, Burlington, Wash., U.S.A.						Gold, silver.
Golden Drip	Rossland	C. A. Ritchie, Rossland						Gold, silver.
Hattie	Rossland	S. Berg, Rossland						Gold, silver.
Iron Colt	Rossland	J. Penny *et al.*, Rossland						Gold, silver.
I.X.L.	Rossland	I.X.L. Lessors, Ltd., Rossland						Gold, silver.
Jumbo	Rossland	M. Slubowski, Rossland						Gold, silver.
Little Bess	Rossland	P. Storseric and W. Tartarchuk, Rossland						Gold, silver.
Midnight	Rossland	Midnight Syndicate, Rossland						Gold, silver.
Mighty Midas	Rossland	M. M. Butorac, Trail						Gold, silver.
Norway	Rossland	Norway Mining Co., Trail						Gold, silver.
O.K.	O.K. Mountain	O.K. Leasing Co., Rossland						Gold, silver.
Silverine	Rossland	A. O. Fried and M. Penny, Rossland						Gold, silver.
Ural	Rossland	C. J. Butorac, Trail						Gold, silver.
Velvet	Rossland	Velvet Gold Mining Co., Seattle, Wash.	50	100	‡100	Dec., 1935	Flotation	Gold, silver, copper.
Rossland properties	Rossland	Leasers from Cons. M. & S. Co., Trail						Gold, silver, copper.
Bralorne	Bridge River	Bralorne Mines, Ltd., Vancouver	450	450	450	Feb., 1932	Amalgamation ; flotation	Gold, silver.
Minto	Bridge River	Minto Gold Mines, Ltd., Vancouver	50	120	85	Dec.,1934	Amalgamation ; flotation	Gold, silver, lead.
Pioneer	Bridge River	Pioneer Gold Mines of B.C., Ltd., Vancouver	300	300	300	Feb., 1928	Cyanidation	Gold, silver.
Wayside	Bridge River	Wayside Cons. Gold Mines, Ltd., Vancouver	20	100	100	Nov., 1934	Flotation ; cyanidation	Gold, silver.
Grange	Kelly Creek	Grange Mines, Ltd., Vancouver	50	50	¶	Jan., 1934	Amalgamation ; flotation	Gold, silver.
Vidette	Savona	Vidette Gold Mines, Ltd., Vancouver	35	70	70	Dec., 1933	Flotation	Gold, silver, copper.
Anvil	Clayoquot	S. Knutsen *et al.*, Ceepeecee						Gold, silver.
Danzig	Nootka	Danzig Mines, Ltd., Seattle, Wash.						Gold, silver.
Gold Field	Ceepeecee	A. Bloom *et al.*, Ceepeecee						Gold, silver.
Van. Isle Group	Nootka	Nootka Gold Syndicate, Ceepeecee						Gold, silver.
Privateer	Ceepeecee	A. Bird, Ceepeecee						Gold, silver.
White Star	Ceepeecee	L. R. Brown, Ceepeecee						Gold, silver.
Home Gold	Verona	Home Gold Mining Co., Vancouver	25	18	18	Nov., 1934	Table concentration ; flotation	Gold, silver.
Invermay-Annex	Hope	Invermay Annex Mining Co., Ltd., Vancouver						Silver, lead.
Havilah	Port Alberni	Havilah Gold Mines, Ltd., Victoria						Gold, silver.
Vancouver Island	Port Alberni	Vancouver Island Gold Mines, Ltd., Vancouver						Gold, silver.
Ashloo	Squamish	Ashloo Gold Mining Syndicate, Vancouver		25	25	Sept., 1936	Table concentration ; flotation	Gold, silver, copper.
Britannia	Britannia Beach	Britannia Mining & Smelting Co., Ltd., Britannia Beach	5,000	5,000	3,600	Jan., 1923	Flotation	Copper, gold, silver ; pyrite concentrate.
Golden Gate	Roy	Loughborough Gold Mines, Ltd., Vancouver						Gold, silver.
Old Bill Group	Lasqueti	Kurtzhals Bros., False Bay, Lasqueti Island						Gold, silver, copper.
Thurlow Gold	Thurlow Island	Northern M. & M. Co., Ltd., Vancouver	15	15	‡15	June, 1935	Table concentration	Gold, silver.

‡ Intermittent. ¶ Idle during 1936.

TABLE XXII.—Mining Companies employing an Average of Ten or more Men during 1936.

Shipping Mines.

Name of Mine or Company.	Days Operating.		Average Number of Men.		Tonnage.	
	Mine.	Mill.	Mine.	Mill.	Mined.	Shipped.
Welldun	248	305	6	6	4,425	4,425
Premier	365	365	284	32	192,442	192,442
Edye Pass	220	.....	12	.....	112	112
Surf Inlet	275	150	15	5	5,540	4,569
Surf Point	347	333	20	7	15,215	15,215
Granby	.....	.....	10	.....	.....	5,004
Easter	182	60	7	7	52,000	52,000
Cariboo Gold	282	282	214	13	51,634	51,760
Island Mountain	363	366	116	13	43,649	43,649
Homestake	49	20	8	2	1,103	1,103
Windpass	366	366	58	7	17,579	16,683
Nicola Mines & Metals	357	272	37	7	18,954	18,954
Fairview Amalgamated	187	213	19	5	12,960	12,960
Osoyoos Mines, Ltd.	366	291	20	7	7,500	7,110
Hedley Mascot	224	235	39	23	30,265	29,962
Kelowna Exploration	286	315	95	63	64,594	64,854
Union	.....	105	2	17	20,174	20,174
Yankee Boy	.....	.....	10	.....	389	389
Dentonia	308	138	43	6	11,612	11,612
Highland Bell	176	.....	18	.....	1,972	1,972
Sally	364	.....	10	.....	74	74
Wellington	315	.....	19	.....	701	701
Sullivan	286	318	621	234	1,910,619	1,901,476
Mammoth	74	77	28	4	9,088	9,485
Bayonne	213	59	39	2	2,666	2,666
Boulder City	361	.....	14	.....	703	703
Granite	288	168	16	2	1,414	1,414
Kootenay Belle	328	331	55	7	21,864	15,508
Kootenay Ore Hill	358	123	25	1	427	427
Relief Arlington	366	336	71	15	34,776	25,462
Reno	366	366	99	21	42,751	42,705
Wesko	346	69	40	4	6,043	6,043
Ymir Yankee Girl	314	352	85	19	43,149	43,378
Ymir Consolidated	348	215	21	4	11,816	11,816
Sheep Creek Consolidated	366	366	91	10	54,967	54,967
Meridian	280	280	39	8	27,273	27,273
Allco	365	.....	10	1	99	99
Bralorne	366	366	302	18	167,264	167,264
Minto	345	347	50	12	29,392	29,271
Pioneer	365	365	274	27	154,881	145,847
Wayside	308	365	38	9	38,000	37,535
Vidette	338	338	79	6	12,202	12,352
Ashloo Gold Mines Syndicate	177	177	8	4	2,774	2,774
Britannia	336	365	683	69	1,311,835	1,311,835

TABLE XXII.—MINING COMPANIES EMPLOYING AN AVERAGE OF TEN OR MORE MEN DURING 1936—*Continued.*

Non-shipping Mines.

Name of Mine or Company.	Days Operating.		Average Number of Men.		Tonnage.	
	Mine.	Mill.	Mine.	Mill.	Mined.	Shipped.
Polaris-Taku	242	.....	27	.....	.....	.....
Big Missouri	365	.....	171	.....	.....	.....
Gold Mountain	365	.....	21	.....	.....	.....
Hedley Amalgamated	365	.....	26	.....	.....	.....
Base Metals Corporation	305	.....	30	.....	.....	.....
Euphrates	180	.....	10	.....	.....	.....
Gold Belt	350	.....	36	.....	.....	.....
Salmo-Malartic	365	.....	14	.....	.....	.....
Wisconsin	209	.....	12	.....	.....	.....
B.R.X. (1935) Consolidated	309	.....	22	.....	.....	.....
Federal Gold	198	.....	11	.....	.....	.....
Pacific Eastern	365	.....	41	.....	.....	.....
Pilot Gold	.....	.....	10	.....	.....	.....
Reliance Gold	.....	.....	10	.....	.....	.....
B.C. Nickel Mines, Ltd.	314	.....	15	.....	.....	.....

SYNOPSIS OF MINING LAWS OF B.C.

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 only hold, by location, one mineral claim on the same vein or lode, but may acquire others by purchase. Under the "Placer-mining Act," a free miner may locate one placer claim or leasehold in his own name and one placer claim or leasehold for each of two 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 three "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.

The "discovery post" is placed at the point where the mineral in place is discovered.

Nos. 1 and 2 posts are placed as near as possible on the line of the ledge or vein, shown by the discovery post, and mark the boundaries of the claim. Upon each of these three 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 diggings': 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 seventy-two hours, 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:—

" 105A. (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 1 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:

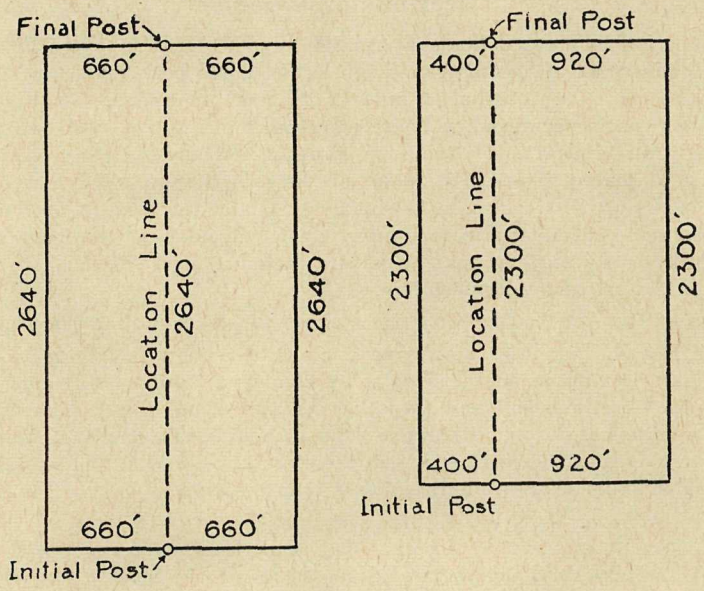
"(*b.*) The date of the location:

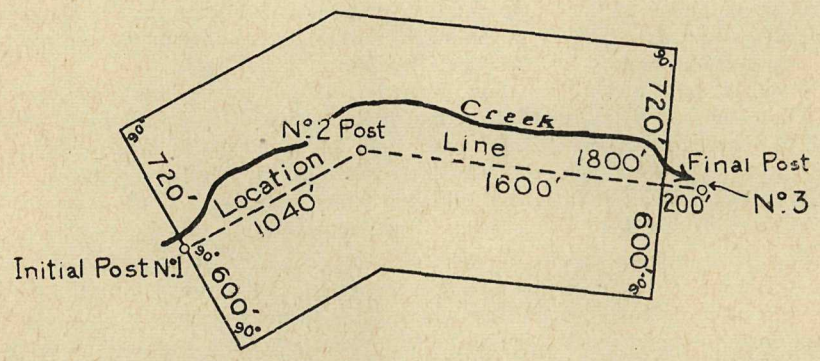
"(*c.*) The number of feet lying to the right and left of the location-line, and the approximate area or size of the ground.

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.





"(6.) The location and area of the placer leasehold shall be determined by establishing its end lines running from or through the initial post and from or through the final post, at right angles to the course of the location-line at those posts, respectively; and by establishing its side-line parallel to the course or courses of the location-line, and distant one thousand three hundred and twenty feet from each other."

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.

Dredging leases on rivers for 5 miles below low-water mark are also granted. Section 122 of the Act establishes a definite method of staking such mining ground. Authority also has been given for the granting of placer-mining leases for dredging purposes 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 under three folios	2.50
Per folio over three, in addition	.30
Records in " Records of Conveyances," same as affidavits.	
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 was passed at the 1932 session of the Provincial Legislature and 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.

An amendment passed at the 1933 session of the Legislative Assembly 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 a 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.

Mines Development Act.

When it is shown to the satisfaction of the Minister of Mines that ore-bodies exist in quantity and of commercial value sufficient to warrant the expenditure of public moneys, the Minister of Mines may authorize the expenditure of so much of the public money as may be required for the construction, reconstruction, or repair of trails, roads, and bridges to facilitate the operation and development of such mineral or placer claims.

Furthermore, the Minister of Mines may authorize the expenditure of public money towards the building or repairing of trails and bridges in or to any mineral district for the purpose of facilitating the exploration of the mineral resources of the district, such expenditure not to exceed 50 per cent. of the cost of the work. If such roads, trails, or bridges have been built by any person or company having mining interests in the district, the Minister of Mines may refund to such person a portion, not exceeding 50 per cent. of the cost of such construction.

Mineral Survey and Development Act.

Part I.—Mineral Survey.

A mineral survey of the Province has been established, to be carried on continuously and records thereof kept.

For this purpose the Province has been divided into Mineral Survey Districts, and there are five Resident Engineers who, with such assistance as is necessary, devote their whole time to carrying out the provisions of this Act, reporting direct to the Minister.

Part II.—Aid to Prospectors.

The Resident Engineer in each district shall aid prospectors, as far as practicable:—

(*a.*) By giving information as to mineral indications and as to ground open for location as mineral claims or placer claims as a result of knowledge gained during the carrying-out of the mineral survey of his district:

(*b.*) By examining samples and applying such tests as may be possible on the ground or in his office and advising as to the nature of any mineral and as to the best available methods of analysis, sampling, assay, and test:

(*c.*) By forwarding samples to the Minister of Mines for further examination and tests whenever in his opinion such course is necessary or expedient:

(*d.*) By reporting to the Minister of Mines the location and approximate cost of such roads, trails, and bridges as in his opinion are reasonably necessary in order to render possible the development of any mineral resoures; and

(*e.*) Generally, by giving such advice, information, and directions as may be of assistance to miners and prospectors within his district.

Part III.—Protection of Wage-earners.

1. Every person giving or making a working bond or a lease, with or without any option for sale, of any mining property shall insert therein a provision that during the currency of the bond or lease all free miners and wage-earners employed on or about the mining property shall be paid their wages semi-monthly, and shall demand and receive a letter, to be procured by the holder of the bond or lease from a Gold Commissioner or Government Agent or Mining Recorder, stating that security for such wages has been given pursuant to this section, otherwise the person giving or making the bond or lease shall be under personal liability to pay all such wages.

2. Every person taking a right or option to work or purchase any mining property shall furnish to the nearest Gold Commissioner, or Government Agent, or Mining Recorder adequate security from time to time for the payment semi-monthly of the wages of all free miners and wage-earners employed on or about the mining property, on the terms that every such security shall be forthwith realized and payment of wages made upon any default; and every Gold Commissioner, Government Agent, and Mining Recorder shall have full power and authority to realize upon the security lodged with him so as to make payment of any wages in default, and shall make payment thereof up to the amount realized.

PART IV.—PROTECTION OF INVESTORS.

Each Resident Engineer shall, upon receiving notice of any advertised or solicited sale of shares in any company or in any claim or mine or mineral property whatsoever, upon statements or terms not in accordance with actual facts and conditions, notify the Minister of Mines, who, upon investigation, may, if found necessary, give such notice, either personal or public, as may be necessary to prevent any injury to investors; and every notice given under this section by the Minister of Mines shall be absolutely privileged.

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.

Phosphate-mining Act, 1925.

This Act takes the mineral tricalcium phosphate out of the " Mineral Act " for the purpose of administration. This is done to make possible the staking of phosphate claims one mile square in area.

Any person desirous of securing a licence to prospect for phosphate is required to stake the land he may wish to acquire and work; and after such staking shall post in the office of the Gold Commissioner for the mining division in which the land is situated a notice of his intention to apply for a licence. Then the applicant is required to make application in writing to such Gold Commissioner for a prospecting licence over the land for any term not exceeding one year. The Gold Commissioner shall forward this application to the Hon. the Minister of Mines, who may grant to the applicant a prospecting licence. Application shall be accompanied by a licence fee of $100. The land to be acquired shall be of a rectangular shape and shall not exceed 640 acres for each licence, measuring 80 chains by 80 chains, and boundary-lines shall be run true north and south and true east and west. A renewal of the licence may be obtained for a second period of one year upon payment of further licence fee of $100, and furnishing proof that he has explored for phosphate and has expended not less than $50 in such exploration-work. An extension of the term for a third period of one year may be granted upon like conditions and terms. Provision is made for the payment of $150 in cash in lieu of exploration-work. The cost of the survey of the land, not being less than $150, can be counted as exploration-work. If during any one year work is done to a greater extent than the required $50—but not less—same may be applied as work for any subsequent year that the licence remains in force.

The Lieutenant-Governor in Council may grant a lease of the land covered by a prospecting licence to any licensee who during the existence of his licence, or within thirty days following the expiry of same, gives satisfactory evidence that he has discovered phosphate on such lands. He shall at the same time pay a sum sufficient to cover the first annual rental and also shall have expended not less than $50 per licence in exploration-work during the term of the last renewal licence or tender in lieu thereof the sum of $50 per licence. Such

lease shall be granted for a term of five years, renewable for three years, and for a further three years after the expiry of the first renewal. A lease shall not be issued until the land has been surveyed by an authorized land surveyor. An annual rental rate of 15 cents per acre shall be payable under said lease.

The lease provides for the expenditure of not less than $100 per annum in the development of a mine, or the payment of $100 in lieu of such development-work. Excess work done in any one year may be applied as work to subsequent years. Provision is also made for the purchase of phosphate-mining rights.

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, 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 162, R.S.B.C. 1924.)

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 ore, 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 1936 there were made by the staff in the Government Assay Office 7,609 assays or quantitative determinations and 287 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	$32.50
Fees for assaying	40.50
Fees for assayers' examinations	210.00
Total cash receipts	$283.00

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

Attorney-General's Department	$793.00
Agricultural Department	2,203.00
Board of Health	740.00
Other departments	455.00
Treasury	1,470.00
	$5,661.00
Value of work done outside of Mines Department work	$5,944.00

One thousand four hundred and seventy 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, 952 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.

EXAMINATION FOR ASSAYERS.

The writer has the honour, as Secretary, to submit the Annual Report for the year 1936 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, 1934."

A meeting of the Board of Examiners was held on May 16th, August 5th, and September 30th, 1936. Two candidates applied for examination on May 16th and both passed the examination. Seven candidates applied for examination on June 15th and all passed the examination. One candidate applied for exemption under section 10, subsection (2), of the Act on August 5th. The Board recommended that certificates be issued to the above-mentioned ten candidates.

In accordance with the recommendations of the Board, certificates have been duly issued by the Honourable the Minister of Mines to the ten successful candidates.

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.	Deputy 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	Squaw Creek via Atlin			Mrs. F. Muncaster.
Sub-office	Tulsequah			H. L. Fraser.
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			Duncan Miller.
Sub-office	Burns Lake			T. E. Taylor.
Sub-office	McDame Creek			R. J. Meek.
Sub-office	Fort St. John			F. W. Beatton.
Sub-office	Dease Lake Townsite			John Fleming.
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			O. T. Sundal.
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	Bella Bella			
Sub-office	Ocean Falls			Geo. H. Hill.
Sub-office	Kimsquit			Percy Gadsden.
Queen Charlotte	Queen Charlotte	N. A. Watt	G. A. Charter, M.D.	
Sub-office	Jedway			W. T. Reavley.
Sub-office	Massett			J. C. Frizzell.
Sub-office	Lockeport			
Omineca	Smithers	H. B. Campbell	H. B. Campbell	
Sub-office	Fort Grahame			L. T. Kempple.
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			O. T. Sundal.
Sub-office	Fort Fraser			J. D. Moore.
Sub-office	Vanderhoof			Geo. Ogsdon.
Sub-office	Pacific			T. H. McCubbin.
Sub-office	Hazelton			Wm. Grant.
Sub-office	Burns Lake			T. E. Taylor.
Sub-office	Usk			Jas. L. Bethurem.
Sub-office	Takla Landing			Mrs. Wilhemina Aiken.
Sub-office	Copper River			L. G. Skinner.

GOLD COMMISSIONERS AND MINING RECORDERS—*Continued.*

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Deputy Recorder.
Peace River	Fort St. John	H. B. Campbell (at Smithers)	F. W. Beatton	
Sub-office	Fort Nelson			J. S. Clark.
Sub-office	Prince George			G. Milburn.
Sub-office	Finlay Forks			A. MacKinnon.
Sub-office	Hudson Hope			F. F. Monteith.
Sub-office	Pouce Coupe			M. S. Morrell.
Cariboo	Barkerville	J. P. Scarlett	J. P. Scarlett	Miss L. D. Boyd.
Sub-office	Quesnel			E. C. Lunn.
Sub-office	Prince George			Geo. Milburn.
Sub-office	McBride			R. McKinlay.
Sub-office	Fort McLeod			J. E. McIntyre.
Quesnel	Williams Lake	L. C. Maclure	L. C. Maclure	
Sub-office	Quesnel			E. C. Lunn.
Sub-office	Likely			A. Morrison.
Sub-office	Barkerville			J. P. Scarlett.
Sub-office	Horsefly			A. B. Campbell.
Sub-office	Keithley Creek			Hugh Adams.
Sub-office	Hanceville			E. R. Hance.
Sub-office	Tatla Lake			Robt. Graham.
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	Tatla Lake			Robt. Graham.
Sub-office	Hanceville			Edwin Rennie Hance.
Kamloops	Kamloops	E. Fisher	E. Fisher	D. G. Dalgleish.
Sub-office	Chu Chua			George M. Fennell.
Sub-office	Vavenby			H. Finley.
Sub-office	Salmon Arm			A. P. Suckling.
Ashcroft	Ashcroft	E. Fisher (at Kam.)	W. F. Knowlton	
Sub-office	Lytton			H. Elgie.
Nicola	Merritt	E. Fisher (at Kam.)	A. G. Freeze	
Yale	Hope	E. Fisher (at Kam.)	H. Beech	
Sub-office	Lytton			H. Elgie.
Similkameen	Princeton	Chas. Nichols	Chas. Nichols	
Sub-office	Hedley			
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			R. E. Baxter.
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	Ronald Hewat	W. M. H. Dunn	
Sub-office	Trout Lake			R. McPherson.
Sub-office	Poplar Creek			A. Robb.
Slocan	New Denver	Ronald Hewat (at Kaslo)	Frank Broughton	
Sub-office	Sandon			W. J. Parham.
Slocan City	Slocan	Ronald Hewat	T. McNeish	W. E. Graham.
Nelson	Nelson	J. Cartmel	J. Cartmel	J. A. Stewart.
Sub-office	Creston			R. H. Hassard.
Sub-office	Ymir			Wm. Clark.
Sub-office	Salmo			M. C. Donaldson.
Arrow Lake	Nakusp	J. Cartmel (at Nelson)	N. A. Herridge	
Revelstoke	Revelstoke	Wynfield Maxwell	W. Maxwell	W. G. Fleming.

GOLD COMMISSIONERS AND MINING RECORDERS—*Continued.*

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Deputy Recorder.
Lardeau	Beaton	Wynfield Maxwell (at Revelstoke)	Stephen Rowe	
Sub-office	Trout Lake			R. McPherson.
Trail Creek	Rossland	W. H. Reid	W. H. Reid	
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.
Sub-office	Granite Bay			H. J. Bull.
Sub-office	Cumberland			S. B. Hamilton.
Sub-office	Alberni			W. H. Boothroyd.
Alberni	Alberni	W. H. Boothroyd	W. H. Boothroyd	G. C. Rolf.
Clayoquot	Clayoquot	W. H. Boothroyd (at Alberni)	W. T. Dawley	
Sub-office	Nanaimo			C. L. Monroe.
Sub-office	Ceepeecee			P. McGregor.
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			Chas. J. Whittaker.
Vancouver	Vancouver	A. S. Tyrer	R. A. Burgoyne	
Sub-office	Alert Bay			Jos. Howe.
Sub-office	Powell River			A. C. Sutton.
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.

GOLD COMMISSIONERS' AND MINING RECORDERS' OFFICE STATISTICS, 1936.

District and Division.	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 (No. 1)																**$22,201.80**
Atlin	336	6	2	56	51	9	28	3	66	43	159	51	$2,006.50	$9,250.80	$11,257.30	
Stikine	86				21	2					8	1	413.00	769.00	1,182.00	
Liard	56			108	106	17				14	32	18	263.50	3,207.40	3,470.90	
Nass River	57	2		65	127	7	2						416.50	522.00	938.50	
Portland Canal	179	5		249	540	37	9				1	1	1,245.00	2,299.60	3,544.60	
Skeena	117	1		79	71	19	3	6		5		1	653.25	706.95	1,360.20	
Queen Charlotte	26			18	10	5			2		2	5	97.00	189.75	286.75	
Bella Coola	28			1	6	9				1			101.00	60.55	161.55	
North-eastern District (No. 2)																**66,877.22**
Cariboo	397	14	6	915	1,053	207	46		44	254	635	274	3,068.00	34,619.05	37,687.05	
Quesnel	413	4	4	301	306	45			48	91	193	82	2,043.50	12,381.45	14,424.95	
Omineca	501	12	2	247	805	97	1	3	30	52	232	77	3,285.75	11,361.22	14,646.97	
Peace River	26								1	1	2	1	113.25	5.00	118.25	
Central District (No. 3)																**13,135.20**
Nicola	69			149	83	23							282.25	677.35	959.60	
Vernon	290	2	1	143	173	53		1	31	42	23	43	1,342.50	3,489.15	4,831.65	
Kamloops	541	3	2	290	327	99	2	5	32	40	23	54	2,768.75	4,575.20	7,343.95	
Southern District (No. 4)																**19,627.25**
Grand Forks	76		3	71	80	10		13			3		384.25	949.00	1,333.25	
Greenwood	160	5		159	349	20	1	20	9	16	25	23	1,114.00	3,640.45	4,754.45	
Osoyoos	252	8		235	394	41	26	13					1,697.00	2,249.20	3,946.20	
Similkameen	295	5		175	330	19	7		15	42	72	46	1,568.00	8,025.35	9,593.35	
Eastern District (No. 5)																**33,117.63**
Fort Steele	426	2	1	224	267	35		2	28	29	64	44	1,978.75	5,767.25	7,746.00	
Windermere	55	2	1	66	77	11			3	1		4	350.75	570.35	921.10	
Golden	70	3		36	50	3				1	3	7	376.25	2,224.33	2,600.58	
Ainsworth	147	4		83	181	40	1	36	3	4			980.50	1,934.65	2,915.15	
Slocan	44	2		43	67	3	1						409.25	381.75	791.00	
Slocan City	58			75	85	5							261.50	715.75	977.25	
Nelson	506	14	3	458	787	134	6	61	63	5	6	19	3,675.75	6,689.10	10,364.85	
Arrow Lake	22			15	11	6				5			99.25	85.25	184.50	
Trail Creek	170	9		29	21	9		18		11	11		1,369.00	955.00	2,324.00	
Revelstoke	89		1	12	90	7		9	7	35	11	36	425.50	3,056.35	3,481.85	
Lardeau	43	1		70	130	13							274.00	537.35	811.35	
Western District (No. 6)																**69,665.85**
Nanaimo	124	1	3	292	236	38	7	8					467.00	1,798.20	2,265.20	
Alberni	89	3	1	70	56	13	9	3		7			584.00	512.35	1,096.35	
Clayoquot	75			195	190	37			5	7			338.00	2,552.00	2,890.00	
Quatsino	29			7	19								131.50	65.25	196.75	
Victoria	225	15	4	43	20	7		18	7	6	7	2	2,490.75	1,623.00	4,113.75	
Lillooet	588	44	1	1,796	2,007	359	160		5	4	46	6	6,307.50	15,301.90	21,609.40	
Clinton	63			127	191	25	10		36	16	16	41	352.75	2,445.75	2,798.50	
Ashcroft	130	3	1	177	326	61			8	18	9	5	983.50	2,703.00	3,686.50	
Yale	176	8	2						15	6	14	2	1,478.50	4,434.90	5,913.40	
New Westminster	201	5	3	291	207	42		5	8	13	8	3	1,191.25	1,947.60	3,138.85	
Vancouver	1,878	161	29	137	277	47		1					20,678.00	1,279.15	21,957.15	
Totals	9,113	344	70	7,507	10,127	1,614	319	225	466	769	1,605	846	$68,066.25	$156,558.70	$224,624.95	**$224,624.95**

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