

away ahead of anything the directors or shareholders ever expected, and when the mill on that property is in active operation, which will be in the very near future, dividends will be in order at the rate of at least one per cent per month.

Statements are made by reliable mining experts who know the Virtue property that there is every reason to believe there is more gold in the mine than has been taken out and we understand that it is the policy of the directors as soon as the mill on the Cumberland is in full swing to demonstrate to their shareholders and the public that their faith in the Virtue Collateral properties was fully justified.

#### STANDARD MINING EXCHANGE.

Range for the Week.

Sales.	High	Low	Close.
5,500 B. O. G. F. . . . .	3½	3¼	3½
7,700 Golden Star. . . . .	85	82½	83½
1,000 Mont.-London . . . . .	35	36	33
6,000 Big Three . . . . .	10½	9	10½
18,500 Van Anda. . . . .	5½	.....	5½
1,000 Dardanelles. . . . .	10½	.....	10½
5,100 White Bear . . . . .	8½	3¼	8½
3,000 Deer Trail No.2 . . . . .	10½	.....	10½
2,000 Boerth G.M.Co. 18 . . . . .	.....	.....	18
1,000 Waterloo . . . . .	12½	.....	12½
2,000 Lone Pine . . . . .	14½	.....	14½
8,000 Fair. Corp. . . . .	4	3	3
500 Knob Hill . . . . .	80	.....	80
800 Dundee . . . . .	15	.....	15
5,000 Gold Hills . . . . .	4½	.....	4½
1,800 Princ. Maud . . . . .	7	7	7
500 Payne. . . . .	105	.....	105
1,000 Athabasca . . . . .	31	.....	31
1,000 Bonanza . . . . .	9	.....	9

#### TORONTO MINING EXCHANGE.

Range for the Week.

Sales.	High	Low	Close.
21,650 B. C. G. Fields. . . . .	3½	3¼	3½
1,750 Dardanelles . . . . .	10½	10	10½
1,000 Van Anda . . . . .	5½	5¼	5½
2,000 Fair. Corp. . . . .	4	3¾	4
7,000 White Bear. . . . .	3¼	3	3
4,000 Tamarac . . . . .	8½	8¼	8½
18,500 Golden Star . . . . .	35½	32½	33½
7,000 Deer Trail . . . . .	11½	10½	10½
14,000 Big Three . . . . .	10	8	8
500 Mont.-London . . . . .	35	.....	35
7,500 Nor. Belle. . . . .	1	.....	1
2,000 Monte Christo . . . . .	6¼	6	6
500 North Star . . . . .	33	.....	33
16,000 C. G. F. S. . . . .	7½	7	7½
2,000 St. Paul . . . . .	1¼	.....	1¼
1,000 B. & G. Crown. . . . .	23½	.....	23½
8,000 Minnehaha . . . . .	18	.....	18
3,500 Bonanza . . . . .	2½	9	9½
800 Dundee . . . . .	15	.....	15
500 Onogon . . . . .	7¼	.....	7¼
1,000 Fr. Maud . . . . .	7	.....	7
2,000 Novelty . . . . .	1¼	.....	1¼
500 Payne . . . . .	105	.....	105
2,000 Republic . . . . .	105	.....	105

#### ROSSLAND MINING EXCHANGE.

Range for the Week.

Sales.	High	Low	Close.
24,600 Giant . . . . .	8½	8	8½
3,500 White Bear . . . . .	3½	3¼	3½
3,000 Ram-Cariboo . . . . .	55	.....	55
15,500 Tamarac . . . . .	9½	8	8
7,000 Okanogan . . . . .	8½	8	8
500 Virginia . . . . .	5½	.....	5½
17,000 Peoria . . . . .	1¼	1½	1½
1,000 Evening Star . . . . .	8	.....	8
6,000 Brandon and G. Crown . . . . .	27	26	27
3,500 I. X. L. . . . .	24	22	24
9,000 King . . . . .	27	25	27
15,000 Rathmullen . . . . .	7	5½	6¾
1,500 Republic . . . . .	102	.....	102
500 Winnipeg . . . . .	29½	.....	29½

## Mines and Mining.

### THE YEAR'S WORK IN ROSSLAND.

(Rossland Miner, Jan. 2.)

For the year just ended the mines of Rossland camp sent out approximately 183,670 tons of ore, as against 116,000 tons in 1898, and 98,000 tons in 1897. The value of the ore sent out is put at \$3,866,080, although taking the customs returns into consideration, the value should be considerably higher, and it is safe to say that when the official figures in detail are obtained, the total will be found to exceed that given.

The fact that the annual shipments of ore now exceed 180,000 tons gives eloquent proof of the large amount of steady development accomplished during the past 12 months in the four large producers of the camp, but as Mr. Carlyle stated in his farewell address, the work of the year has been one of development largely, and this is true of every working property in the camp. A large quantity of the ore taken out and sent to the smelter has come out in the course of ordinary development, pure and simple. The managers have only turned to stoping when it became necessary to do so for commercial reasons. It will be noticed that the value per ton of ore mined and shipped is considerably lower than in former years, but the reason is clear and beyond doubt. In the early history of the camp the charges for freight and treatment were so high that only high grade ore could find its way to the smelter, and when lower grade ore had to be mined and brought to the surface, it was placed on the dump to await the time when better and cheaper rates could be obtained. On the Le Roi dump to-day there is 120,000 tons of this second-class ore, and as already stated in these columns during the year, the management has made preparations to send this all down to Northport, the terms for freight and treatment having steadily fallen, until now, when \$3 ore can be made to pay. In the mine workings in former years about eight feet of the ore was taken out. Now, this has been extended from time to time until the workings are 30 feet wide. The formation here has no regular walls in a mining sense, as a rule, but commercially speaking, the workings can be widened and widened from the former width of eight feet, until from 25 to 30 feet of width has been attained, the value of the ore decreasing, as a rule, until a point is finally reached when it does not pay to ship. In the way mentioned, it will readily be seen how large quantities of much lower grade ore are now sent out than in former years, hence the value per ton has considerably decreased.

It must not be forgotten, however, that one of the chief guarantees of the permanency and prosperity of Rossland camp has for its base the very fact of the mining and smelting of the low grade ore referred to. It insures the steady employment of a large force of miners and a necessarily large output of ore, which would not be the case if the ore here was all of a high grade.

The number of miners employed on the properties in and around the camp is constantly changing, but an average estimate is given. During the late spring, summer and autumn months a larger amount of assessment and prospecting work is done every year, which may legitimately be included in estimating the amount of money paid out each month. It will be found if all the sources for mining labor are taken into consideration that in Rossland district and tributary to the city, over 1,400 miners now find employment. The consequent pay roll for this small army of workers

has steadily increased all the past year, until at the present time from all sources it has very nearly reached the respectable total of \$150,000 per month. In the tabulation of some of the larger properties given hereunder, it must be remembered that in many of the properties, the West Le Roi for instance, new machinery is being installed, and when this is in mining order the actual number of miners employed will be considerably increased.

With the freight and smelting charges at Trail at \$6 per ton and Northport offering \$4.50, several properties which remained idle for the past three years have commenced work again, and as further reduction in the charges is looked for, it is only fair to suppose that the already large list of working properties of Rossland camp will not only be maintained, but be considerably increased during 1900. The percentage of shipping properties may also be looked to confidently to make a still better showing than in the past. The undoubtedly large amount of development work accomplished up to the present time is bound to show up during the coming twelve months, and the year promises in many ways to be the most interesting one the camp has ever known.

The dividends declared and paid during the year amount to the sum of \$565,000, the Le Roi company paying \$250,000 and the War Eagle Consolidated \$315,000, or \$26,250 per month.

Appended will be found a detailed statement (approximately) of the camp's ore output during the year 1899, the 13 shipping mines giving a total of 183,670 tons, as follows.

#### The Year's Ore Shipments.

Le Roi . . . . .	94,387
War Eagle . . . . .	64,748
Centre Star . . . . .	16,855
Iron Mask . . . . .	5,646
Evening Star . . . . .	1,088
Deer Park . . . . .	18
Columbia Kootenay . . . . .	111
Virginia . . . . .	100
Mountain Trail . . . . .	20
I. X. L. . . . .	100
Coxey . . . . .	20
Monte Christo . . . . .	552
Giant . . . . .	75

Total tons for year . . . . . 183,670  
The Le Roi easily headed the list with over 94,000 tons. The combined shipments of the War Eagle and Centre Star total 81,603, while the Iron Mask sent out over 5,600 tons of carefully sorted ore.

The output was divided between the smelters about as follows:

To the Canadian Smelter at Trail,	
War Eagle . . . . .	64,603
Iron Mask . . . . .	5,646
Monte Christo . . . . .	552
Virginia . . . . .	100
Deer Park . . . . .	18
Evening Star . . . . .	1,088

89,007

To the Le Roi Smelter at Northport.

Le Roi . . . . .	94,387
I. X. L. . . . .	100
Giant . . . . .	75
Coxey . . . . .	20
Mountain Trail . . . . .	20

94,552

#### The Men Employed.

War Eagle and Centre Star . . . . .	617
Le Roi . . . . .	366
West Le Roi . . . . .	65
East Le Roi . . . . .	39
Columbia Kootenay . . . . .	31
B. A. C. offices, shops, etc. . . . .	37
Iron Mask . . . . .	61
Velvet . . . . .	30
Mountain Trail . . . . .	25
All others . . . . .	150

1,442

In the list given no mention is made of