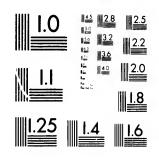
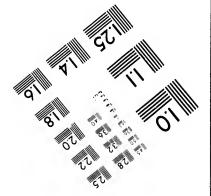


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1860-1872.

THE GOLD YIELD

OF

NOVA-SCOTIA.

BY

A. HEATHERINGTON.

Compiled from Corrected Official Records.

"Mineral Resources are but one factor, which must be joined with labor and intelligence to make the product wealth."—Rossiter W. RAYMOND, Ph. D., U. S. Commissioner of Mining Statistics. (The Mines of the West.)

"Reliable Statistics cannot fail to result beneficially to the country and government."—J. Ross Browne, U. S. Special Commissioner. (Report on the Mineral Resources of the United States.)

"The history of nodern gold discoveries presents itself to us under one uniform aspect; a long preliminary working, and then a sudden publication and recognition."—J. CALVERT. (Gold Rocks of Great Britain and Ireland.)

Eighth Bear-Dittieth Thousand.

LONDON:

"MINING JOURNAL" OFFICE, 26 FLEET STREET, E. C. TRUEBNER & Co., 60 PATERNOSTER ROW, E. C.

1873.

Nova Scotia Printing Co., Corner Sackville and Granville Sts., Halifax.

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Harrister and Sttorney-at-Law,

NOTARY, COMMISSIONER, &c., &c., &c.
HESSLEIN BUILDING, HOLLIS STREET,
HALIFAX, NOVA SCOTIA.

MR. GRAY attends to legal business of all kinds in the DOMINION OF CANADA and in the UNITED STATES.

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A GUIDE TO THE GOLD FIELDS published by Mr. II., and procurable of all Booksellers will be found extremely useful to Tourists, Miners and Investors.

Man. leacherington, fam. Elleander.

1860-72.

FROM THE FIRST WORKING

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PER 10 TBS, C QUART

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N. B.—These Tables are approved by the Geological Survey Office of Canada, as a Standard of Reference

	Ĭ			YIELD	OF GOL	D.
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oner Sackville and Granville Streets,) Halifax, Nova Scotia.

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UNIACKE.....

THE

OLD YIELD OF NOVA SCOTIA;

TRST WORKING OF THE GOLD MINES IN 1860, TO THE CLOSE OF THE YEAR 1872.

1860-72.

COMPILED FROM CORRECTED OFFICIAL RECORDS,

By A. HEATHERINGTON, HALIFAX, N. S.

TRYET OFFICE OF CANADA, and cited by the United States Bureau of Statistics, all Conscian Authorities, and the Industrial Press of both hemispheres, a Standard of Reference, and the only comprehensive Exhibit published of Nova Scotia's Gold Product.

YIELD	OF GOI	D.			MINE	RS.		QUA	RTZ.		М	ILLS		S.		
		AVI	ERAGE,		ATE ER.	for 312 days.	RAISE	D.	CRUSH	р.	STEAM.	TER.	TOTAL.	MINE	Year	R AND DISTRICT.
NATIVE.	PER 2210 LBS. OF QUARTE.	PER 100 LBS, OF QUARTZ,		PER MINER. VALUE AT LY STG. PER OZ.	Acgregate Number.	Daily av. for year of 312 working days.	TOTAL COLONIAL WÉIGHT.	PER MAN DAILY.	TOTAL COLONIAL WEIGHT.	DAILY.		HE EN	o or		16.4	a xan manaca.
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GRAND TOTAL 2,000 4,000 6,000 1 1,132.896 1 208,738.052 209,870.948 3 7.104 | 20.761.948 21,129.05 Marked by a total absence of speculation, excitement or new discoveries, the gold mining industry of 1572 still presents some intere. They are as follows:—1. Scarcity of Labor. The building of the intercolonial Railway and the activity at the Coal mines made labor scarce, wage naturally lessened the yen's gold product. The economic results were on the whole satisfactory and as usual in attange of these obtained in mining in the Province, had a quietting tendency. Having wrought to a depth that required new machinery, and the shareholders being une exigency, the mines were either closed or let on tribute.

3. The Reduction of Royaly, in May last from 3 per cent, on the connec valued at 4.31 increased cost of labor and supplies and the standard price of gold, to be of sensible beneful the mining in the shareholders being une exigency, the uniness were either closed or let on tribute.

3. The Reduction of Royaly, in May last from 3 per cent, on the connec valued at 4.31 increased cost of labor and supplies and the standard price of gold, to be of sensible beneful in the total abolition of this obnoxious tax is being ag It on a permanent footing.

4. Appearance of "Notes and Observations on the Gold Fields of Quebec and Nova Scolia," an official report by the first of the standard price of gold in this cannot retain the standard price of gold mining annotative. Mr. SELWAYS views are the first of Gaudad during the past summer is, as regards their natural capabilities, exceedingly favorable, and equally infavorable as registrate, of Canada during the past summer is, as regards their natural capabilities, exceedingly favorable, and equally infavorable as registrate, of Canada during the past summer is, as regards their natural capabilities, exceedingly favorable, and equally infavorable as registrate, and the fall provided as the past of the standard provided in the past of the standard provided as registrate, and the fall provided in the past of the standard provided in the past of the standard provided in the past o

LONDON: Mining Fournal Office, 26, Fleet Street, E.C.; and Tri

EIGHTH YEAR.

HALIFAX, N. S., January, 1873.

RENFREW...... WINE HARBOR...

District Yield.
SHERBROOKE.

MONTAGU.....

TANGIER.....

STORMONT.....UNIACKE.

CARIBOU.....

OVENS..... Unclassified......

LAWRENCETOWN.....

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Annual Yield.	GENERAL SUMMARY.		TOTAL	Annual Summary. 1862 1863 1864 1864 1865 1866 1866 1866 1866 1866 1866 1871 1872	1862-72. Declared Quantities. 11 Years	1869 70 1872	1862 3 4 5 6 7 8 9 10 1 1872	1868 7 8 9 9 9 1 1872

аписс	reported.	on ii, and not		Estimated	and Declared	Quantities.		GENERAL SUMMARY.
tive.	From Quartz.	Total.	Native.	From Quartz.	Total.	Ratio.	Value at £4 stg. per oz.	
ZS.	Ozs.	Ozs.	Ozs.	Ozs.	Ozs.	Per cent.	£	Annual Yield.
			2,000	4,000	6,000	2.531	24,000	1860-1
1.000	686,000	725,000	350	7,650	8,000	3.375	32,000	2
2.000	1,376,265	1,398.265	50	15,350	15,400	6.500	61,600	
369	1,963,701	1,977.073	190	21,900	22,000	9.282	88,600	4
1.170	2,508,613	2,545.783	150	27,850	28 000	11.814	112,000	5 5
110.6	2,544.435	2,595.346	100	27,700	27,800	11.730	111,200	6
6.069	2.670.358	2,685.427	100	29,900	30,000	12.658	120,000	
1.017	2,031.662	2,058,679	50	22,550	22,600	9.535	90,400	
.077	1,809,883	1,831.900	200	19,500	19,700	8.3 2	78,800	
1.169	2,110.571	2,133.740	200	2+,800	22,000	9.282	88,000	
1.885	1,781.757	1,872. (42	001	21,000	21,100	8.902	84,400	
1.437	1,278.700	1,305.137	100	14,300	14,400	6.079	57,600	2
. 104	20,761.948	21,129,052	3,500	233,500	237,000	100.	948,000	1860-72
	1		ı	1	1)	1	1	riet Yield.
2.000	5.763.621	5,7 5.621	40	64.810	64.850	27.360	259,400	SHERBROOKE
	4.45 .967	4.45967		50,025	50,025	21.108	200, 00	
	2.675.104	$2.675. \pm 04$		29,625	29,625	12.500	118.500	RENFREW
	2.048.683	2,048.+83		23 290	23.290	9.827	93,160	
	1.34 .253	1.34 .256		14,7+5	14.765	6.230	59.0 0	MONTAGU
	1,313.358	1.3 3.358		14,520	14.520	6.127	58,080	OLDHAM
1.650	1,023.998	1,045.648	480	11,565	12,045	5.082	48,180	TANGIER
2.000	1.020.217	1.022.217	20	11,525	11.545	4.870	46,180	STORMONT
	796.063	796.0 3		8,775	8,775	3.702	35,100	UNIACKE
	230,850	230.850		2,560	2.5 0	1.080	10,240	CARIBOU
1.000	18.588	207.588	2,200	300	2,500	1.054	10,000	UNCLASSIFIED
3.220	28,999	172.228	700	1,200	1,900	.807	7,600	OVENS
9.225	48.744	57.9.0	co	540	600	. 253	2.400	LAWRENCETOWN
.104	20,761,948	21,129,052	3,500	233,500	237,000	100.	948,000	GRAND TOTAL

of 1872 still presents some interesting features which, briefly adverted to below, will be more fully discussed in a separate Review, at mines mode labor scarce, wages higher and the miners very independent. This restricted he number employed a gold mining and advange of those obtained in many their countries.

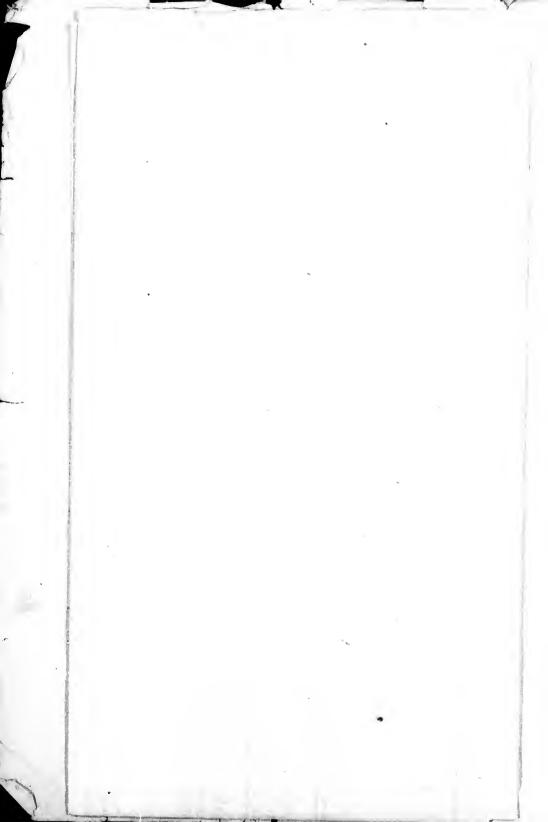
2. The Withdrawal of American Companies, hither to the mainstay of gold and the statesholders being maxiling to pay calls to provide for the same, and no reserve profits having been made to meet the cent, on the onne valued at 23 188, 04, to 2 per cent, on the onne valued at 23 184, was too trilling a concession, in view of the cent, on the onne valued at 23 188, 04, to 2 per cent, on the onne valued at 24 184, but was too trilling a concession, in view of the cent, on the onne valued at 23 188, 04, to 2 per cent, on the onne valued at 24 18, but was too trilling a concession, in view of the cent, on the onne valued at 24 188, 184, was too trilling a concession, in view of the cent, on the onne valued at 24 188, 184, was too trilling a concession, in view of the cent, on the onne valued at 24 188, 184, was too trilling a concession, in view of the cent, on the onne valued to the land to the land to the cent, on the onne valued to the land to the land to the cent, on the onne valued to the land to t

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reet, E.C.; and Trübuer & Co., 60, Paternoster Row, E.C.

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FIFTIETH THOUSAND.



THE GOLD YIELD OF NOVA SCOTIA.

Introductory.—The accompanying Tables published annually since 1865 show the gradual development of the Provincial gold industry; and it is to be hoped that they afford useful data not only for the statistician and political economist, but also for the cautious investor who would naturally seek assurance for the stability of any enterprise in which he proposed embarking in an unembellished statement of results extending over many years. Readers who care not to wade through a long array of figures may take interest in the subjoined summary.

General Results .- Making allowance for quantities stolen and otherwise not reported—approximately ten per cent. of the whole the value of the total gold yield from the autumn of 1860 to the close of the year 1872 was £948,000. The traceable and officially recognised yield for the years 1861 to 1872 inclusive, is 215,871 ozs., or £863,484 in value; of which £12,532 (3133 ozs.) from alluvial washings, and £850,952 (212,738 ozs.) from quartz treated in the mill. The largest declared yield in any one year for the whole Province was £109,258 (27,314 $\frac{1}{2}$ ozs.) for 1867; the largest annual yield of any separate district £57,617 (14,404‡ ozs.) for Waverley in 1865; the largest annual yield of any single mine £34,910 (8,727 ozs.) from the TUDOR mine at Waverley in 1864-not reckoning about 3.000 ozs. known to have been stolen; and the largest bar of gold ever cast was in June 1865, from the same mine, the property of Mr. LEO-POLD BUERKNER, the weight being 1,200 ozs. and its value £4,800. The largest aggregate amount produced from mines owned by companies, is £220,000 from the Ophir at Renfrew, the Wellington and Palmerston at Sherbrooke, and the American at Waverley. largest amount produced from a mine owned by one person is £72,000 from the *Tudor* at Waverley. The largest return in proportion to the workings, is £72,000 from the Wellington mine on a 13 inch lode, opened only 180 feet in length and 500 feet in depth.

Promoters of public companies have received about £1,000,000 stg. for claims. The largest price ever paid was £4500 for two free claims at Waverley of 150 feet each. The largest capital of any mining corporation, proportioned to their holding, was that of the Tipperary and New York Company, who owning only 300 feet in one and 150 feet in another district, organized for the amount of £50,000.

The Provincial Government has received about £50,000 for rents and royalty.

The cost of 2,227,550 days' labor, estimating wages at five shillings a day—which is higher than the average of the first five years—was £556,888.

The cost of 55 mills, the greatest number at any time in operation, may be given as £77,200; allowing £1600 each for 37 steam, and £1000 each for 18 water-mills.

The cost of supplies, rated at 5 sh. for each ton raised, amounted to £56,478.

Incidental expenses reckoned at 10 per cent. on the totals for labor, supplies and machinery, were £69.434.

The total legitimate cost, then, of eleven years declared yield, Government exactions included, was £810,000, leaving a margin of £29,484, reserves comparatively intact, and plant and recoverable tailings worth £75,000.

The production of the several proclaimed districts, from the quartz mines alone, continuing developments on lodes now actually worked to a mean depth of 1000 feet, and confining them to present lateral bounds would, according to the average of declared yields, amount collectively to £27,000,000.

Quartz Mining.—It will be observed from accompanying Tables that quartz is the chief source of gold in this Province, and that the proportion per ton varies considerably in each district. There are not only patches in every district, but there are entire districts (as in Australia), where the quartz is exceptionally rich; but to counterbalance this, the veins are narrow and more expensive to beneficiate. £1. 8s. per ton is the present lowest cost of raising and reducing 2,000 lbs. of quartz from a lode one foot in width, running in slate. The attention of quartz miners here has been too much confined to narrow lodes: but when it comes to be understood that it is relatively cheaper to operate on large quantities of low grade ore than on picked lots of rich ore, wide veins yielding five to ten pennyweights, which might be profitably worked on an extensive scale at a cost of only two or three pennyweights, will cease to be disregarded. Small veins, however, will never be wholly abandoned so long as it is remembered that in Grass Valley, California, seven million dollars' worth of gold were produced from a lode only averaging fourteen inches in width.—(See Mineral Resources of the United States, 1867.)

Alluvial Mining.—With the exception of beach washings at the Ovens, which were prosecuted during the years 1861 and 1862, alluvial mining has been almost wholly neglected. Professor B. SIL-LIMAN and Mr. CAMPBELL incline to the opinion that the auriferous

debris of this Province have been swept beneath the ocean; but M. M. J. W. DAWSON, J. A. PHILLIPS, T. STERRY HUNT, the late AUGUSTE MICHEL and A. R. C. SELWYN, who in the succession named have examined and reported on this region, consider that systematic search for alluvial gold might well repay the prospector. At Tangier Harbor a nugget weighing 27 ozs. was found in 1862; and at Middle River, Cape Breton, and Gay's River pieces of gold weighing from 10 grains to 17 dwts. have been washed. At Nine-Mile River, Stewiacke, Indian Path, and Gold River, the alluvions are deep and impregnated with fine gold From the last mentioned district Dr. How obtained very remarkable results, which are cited in his Mineralogy of Nova Scotia, and in Dr. DAWSON'S Acadian Geology, and were to a great extent, practically sustained by Mr. MICHEL'S subsequent experiments on the ground. Recent trials on an extended scale at Gay's River gave very satisfactory returns.

Average per Ton.—The eleven years' mean from the crushing of 249,346 tons British, is 16 dwts. 20.005 grs., against which Victoria, Australia, reports a thirteen years' mean of 10 dwts, 11.39 grs. per ton, and a further yield of 2 dwts. 14.91 grs. from after treatment of the tailings. The highest average for the whole Province in any one year was 1 oz. 3 dwt. 6 grs., in 1865, and the lowest 13 dwt. 23 grs. in 1871, The highest yearly average of one district was 4 ozs. 13 dwts. 15 grs., for Montagu in 1870, and the lowest 2 dwts. 21 grs. for the Unclassified Districts in 1872. The highest district average for the whole period from 1862 to 1872 is 2 ozs. 16 dwts., 8 grs. for 4370½ Brit. tons crushed at Montagu; the lowest 6 dwts. 22 grs. for 5030½ tons crushed in the Unclassified Districts. As concentration of the tailings takes place in only two mills, and that but recently, the above average does not represent the gold contents of the quartz that has been crushed by a large per centage.

Average Earnings.—The mean yearly average for all districts amounts to £117.11.6; Victoria, Australia, showing a mean of £80.11.5-38d for tweive years ended 1871. The highest average for the Province was £155.14.8 in 1867; the lowest £38.4.0 in 1862. The highest in one district for the whole period is £177.13.11 for Sherbrooke, the lowest £43.10.2 for the Unclassified Districts. The highest district average for one year is £363.3.8 for Wine Harbor in 1872; the lowest £9.16.8 for the Unclassified Districts in 1867.

The daily provincial mean for the period covered by this review is 7s. 6-44d., and for each district as follows: Sherbrooke, 11s. 5-18d.; Wine Harbor, 8s. 10-34d.; Renfrew, 8s. 2-62d.; Caribou, 8s. 2-46d.; Uniacke, 8s. 2-17d.; Montagu, 7s. 9-64d; Waverley, 6s. 9-65d.; Stormont, 5s. 9-92d.: Oldham, 5s. 9-45d.; Tangier, 3s. 10-30d.;

Unclassified, 2s. 9-47d. The daily average for Wine Harbor last year was £1 3s. 3-37d. per man, while his ordinary wages only amounted to 5s. or 6s. a day.

Number of Miners.—The total number of days labor declared for eleven years is 2,227,550; equal to the number expended in thirty-four days in Victoria, Australia, in the year 1871. The greatest number of miners employed in any one year by the whole Province was 887 in 1863; and by one district 317—in Waverley—in 1866.

The daily provincial mean for the whole period was 649; the highest district mean, 152 for Waverley, and the lowest 19, for Caribou.

Quartz Raised.—The aggregate returns give a mean of 254 lbs. for each days' labor, but allowing one third of the hands as employed elsewhere than at the pits, it would appear that it required, on average, 6 men to raise 2240 lbs. of quartz.

Quartz Crushed.—The total quantity crushed is, in round numbers, 250,000 tons British, or no more than has been treated in four years in one mine in Australia.

Mills.—At the close of the year 53 mills were standing, but hardly a dozen in constant operation. They average ten stamps apiece, and their aggregate capacity is 530 tons a day, or 165,000 tons a year, which could even be doubled by the previous use of patent crushers. So far the mean quantity treated, per day, is slightly in excess of 72 tons.

General Remarks.—This condensed Review is chiefly for the purpose of directing attention to a new field for the profitable employment of European, more particularly British, capital. The noble efforts of the ROYAL COLONIAL INSTITUTE, are teaching England the value of her Atlantic possessions, whose denizens should also take pride in making known resources of interest or benefit to the Empire.

The proximity of Nova Scotia to the Mother-Country, its accessibility from all points by land or sea, its excellent harbors, innumerable rivers, immense forests, extensive deposits of coal, iron and gold, and above all its wholesome climate and law-abiding population, are claims worth considering by capitalists who invest in mining ventures and who would give a British colony the preference if reasonable assurance were offered that the risks there would not be greater than in distant alien countries.

An eleven years' abstract of returns made under oath, presented in the accompanying Tables gives that assurance, and at the same time practically refutes any imputation of bias or imaginativeness that might otherwise be raised against an advocate of Nova Scotia Gold Mining.

A. H.

7anuary, 1873.

Note.—The detailed review of "Gold Mining in Nova Scotia," referred to in the Statistical Chart will appear in April next.

DOMINION AND PROVINCIAL DIRECTORIES.

NOTIOE.

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