

Production of Deloro Smelter, 1908 to 31st December, 1913.

	Ore treated.	Silver, fine.	Cobalt and mixed oxides.	Refined arsenic.
	Tons.	Ounces.	Tons.	Tons.
Previous to 1913.....	11,065	20,339,860	500	3,275
During 1913.....	2,920	6,350,500	190	893
	13,985	26,690,360	690	4,168

Lead Ores.—Two lead smelting plants were in operation during 1913. The small plant at Kingston, Ontario, built by the North American Smelting Company, and completed in 1912, was operated in 1913, chiefly on British Columbia and imported ores and lead waste. The lead smelter and refinery at Trail, B.C., owned by the Consolidated Mining and Smelting Company, treated practically all the lead ore mined in southern British Columbia with the exception of the small tonnage that went to Kingston.

In the lead refinery at Trail, the bullion from the smelter is cast into anodes and re-deposited electrolytically upon cathode sheets of refined lead. The refined lead is cast into pigs or manufactured into lead pipe. The slimes from the tank room carry gold, silver, antimony, arsenic, and copper.

The first two are recovered as fine metals, and the copper as copper sulphate. Antimony is also recovered, though not regularly, and bearing metal is manufactured.

The annual production of refined lead, fine gold and silver, and copper sulphate has been as follows:—

Calendar Year.	Refined lead.	Fine gold.	Fine silver.	Copper sulphate.
	Lbs.	Ozs.	Ozs.	Lbs.
1904.....	7,519,440	4,336	551,450	56,000
1905.....	15,804,509	8,602	1,088,328	77,175
1906.....	20,471,314	9,993	1,263,899	143,135
1907.....	26,607,461	10,395	1,631,422	97,751
1908.....	26,549,274	15,346	1,950,039	203,379
1909.....	41,883,614	18,241	2,003,003	51,405
1910.....	32,987,508	13,298	1,798,960	163,228
1911.....	23,525,050	15,270	1,325,601	197,187
1912.....	35,251,790	12,118	1,896,999	87,110
1913.....	36,218,784	11,977	2,433,002	130,533

“At Trail the principal improvements have been alterations in the machine and blacksmith shops, and the transfer of machinery for these