

years there has been a considerable increase in the treatment of these ores by cyanidation and the recovery of silver at the mine in the form of bullion. Thus we find a further falling off, during 1913, in the recovery of silver at Ontario smelters and an increased amount of bullion produced at the mines.

The treatment of these ores in Ontario smelters during the past four years has given the following results:

		1910.	1911	1912.	1913.
Ore treated	Tons.	9,166	9,330	8,007	6,121
Products recovered —					
Silver produced†	Ozs.	14,574,839	17,753,167	15,675,218	11,356,707
White arsenic	Lbs.	3,061,167	4,191,209	4,090,768	3,381,249
Speiss or residues	Tons.	3,071			
Cobalt oxide	Lbs.	13,598	151,174	319,051	690,079
Nickel oxide	"				268,301
Mixed cobalt and nickel oxides and cobalt material		108,178	1,260,832	1,285,280	213,737

†Fine ounces contained in silver bullion, fineness ranging from 850 to 998

In his annual report on the mining industry tributary to the Temiskaming and Northern Ontario Railway, Mr. A. A. Cole, has published the following records of production at the three most prominent silver smelters.

Canadian Copper Company.

"In the autumn of 1912 the Canadian Copper Company decided to close up and abandon its Cobalt plant and since that time has accepted no cobalt ores."

"The following statement shows the ore treated and the production of the Cobalt plant of the Canadian Copper Company from the commencement of operations to their close in 1913."

Year.	Ore treated.	Silver fine.	METALLIC.		White arsenic.
			Cobalt.	Nickel.	
			Pounds.	Pounds.	
	Pounds.	Ounces	Pounds.	Pounds.	Pounds.
1906.	1,767,692.5	1,282,692.78	9,021	3,987	
1907.	4,560,627.5	3,829,512.82	331,151	138,427	510,622
1908.	9,857,072.5	8,551,582.07	464,171	268,140	942,827
1909.	10,651,189.5	8,779,014.55	690,737	463,588	1,242,722
1910.	9,792,511.0	8,696,621.87	346,183	260,756	843,619
1911.	6,744,108.0	6,584,102.46	238,684	234,323	680,074
1912.	3,667,301.0	3,523,207.80	223,163	209,330	476,156
1913.	186,602.0	47,590.00	15,506	7,161	55,669
	47,227,104.0	41,294,357.35	2,318,916	1,585,712	4,791,689