

In 1886 copper to the value of \$16,404, and in 1887 of \$3,416 was exported from Ontario. With that exception, the whole quantity during the period went from the Province of Quebec.

477. The following table gives the estimated total production of copper in the world in 1889 :—

World's
production
of copper,
1889.

THE WORLD'S PRODUCTION OF COPPER, 1889.

COUNTRY.	Quantity.	COUNTRY.	Quantity.
	Long Tons.		Long Tons.
United States.....	105,774	Venezuela.....	5,563
Spain and Portugal.....	57,000	Russia.....	4,070
Chili.....	24,250	Mexico.....	3,780
Germany.....	17,356	Italy.....	3,500
Japan.....	15,000	Other countries.....	8,497
Australia.....	8,300		
Cape Colony.....	7,700	Total.....	263,290
Canada.....	2,500		

The product of copper in Canada is, it will be seen, very small, but there are indications that the output will soon be materially increased; the copper is there, and considerable capital has lately been attracted to its development.

478. In 1883 the first discovery of a deposit of nickeliferous pyrrhotite Nickel was made while the Canadian Pacific Railway Co. were making a cutting through a small hill near Sudbury, in the district of Algoma, Ontario, and since then, though the first discoveries were very much exaggerated, about twenty promising deposits have been discovered in the district, and there is no doubt that this ore is present in large quantities. Operations at present have only been carried on by three companies, viz. :—The Canadian Copper Company, H. H. Vivian & Co., and the Dominion Mineral Company. The ore, which contains on an average about $2\frac{1}{4}$ per cent of nickel, is roasted and smelted into a copper nickel matte, the usual composition of which, from average analysis, is about as follows :—Copper, 26·91; nickel, 14·14; iron, 31·335; sulphur, 26·95; and cobalt, ·935. The matte is also said to contain some ounces of platinum to the ton. The amount of fine nickel in the matte produced at and shipped from the Sudbury mines in 1890, was 1,435,742 pounds, which, at 65 cents per pound, was worth \$933,232. The world's consumption of nickel has been estimated at about 800 tons, and previous to these discoveries, the supply came almost entirely from the French colony of New Caledonia. The consumption of nickel, however, is likely to be very materially increased