

## MINERALS.

**Smelter Production.**—Statistics as to the quantities of ores treated at smelters in Canada, and the quantities of refined smelter products, have been collected by the Dominion Mines Branch since 1908. In 1914 the total quantity of ores and concentrates treated in these smelters was 2,649,935 short tons (including 58,894 tons of imported ore), as compared with 3,037,391 tons in 1913. The largest proportion of the total tonnage in 1914, about 61 p.c., consisted of the copper-gold-silver ores of British Columbia, chiefly from the Boundary, Roseland and Coast districts. The nickel-copper ores of the Sudbury district, Ontario, contributed about 35.7 p.c. of the tonnage, the balance being lead ores and other ores treated in lead furnaces and the silver-cobalt ores of Ontario treated in silver smelters. Gold and silver ores treated by cyanide processes are not included in this record. The products obtained in Canada from the treatment of these ores include pig lead produced at Kingston, Ontario (furnace idle in 1914), refined pig lead and lead pipe produced at Trail, B.C., and fine gold, fine silver, copper sulphate and antimony produced from the residues of the Trail lead refinery; silver bullion, white arsenic, nickel oxide and cobalt oxide are produced in Ontario from the Cobalt district ores. In addition to these refined products, blister copper, copper matte, nickel-copper matte, cobalt material or mixed nickel and cobalt oxides are produced and exported for refining. Table 64 shows the character and quantities of the ores treated in Canadian smelters, and Table 65 the quantities of the refined metals and other smelter products obtained for each of the years 1909 to 1914. The figures do not represent the total production from smelting ores mined in Canada, since considerable quantities of copper and silver ores are shipped to smelters outside of Canada.

64.—Character and Quantities of Ores treated in Canadian Smelters, 1909-1914.

Ores.	1909.	1910.	1911.	1912.	1913.	1914.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Nickel, Copper.....	462,336	628,947	610,834	725,065	823,403	947,053
Silver, Cobalt-Nickel, Arsenic.....	8,384	9,466	9,330	8,097	6,124	5,661
Lead and other ores treated in lead fur- naces.....	54,539	57,549	55,408	59,932	88,100	71,064
Copper, Gold, Silver..	1,850,889	1,987,752	1,517,981	2,212,316	2,119,754	1,612,197
<b>Totals.....</b>	<b>2,376,148</b>	<b>2,683,714</b>	<b>2,193,553</b>	<b>3,005,410</b>	<b>3,037,381</b>	<b>2,635,975</b>