

\$48,948,000 compared with 54,920 tons valued at \$32,886,000 in 1953. Zinc increased from 100,430 tons valued at \$24,023,000 in 1953 to 107,000 tons valued at \$25,638,000 and lead declined from 9,237 tons valued at \$2,388,000 in 1953 to 7,818 tons valued at \$2,084,000 in 1954.

Noranda Mines treats ore from its Horne mine and custom ores and concentrates from other copper, gold and silver mines. It recovers the copper and precious metals from the anodes at the electrolytic copper refinery of its subsidiary, Canadian Copper Refiners Limited, Montreal East. During the review period, the Company completed its new sulphur-iron plant at Port Robinson, Ont., in which it plans to produce elemental sulphur, sulphur dioxide gas for the preparation of sulphuric acid, and iron oxide sinter from pyrite concentrates shipped from its Horne mine. Plant capacity is about 370 tons of pyrite concentrates daily from which an estimated 240 tons of sinter will be produced daily.

In another project the Company had almost completed preparations for the entry into production of the zinc-pyrite property of West Macdonald Mines Limited. The ore will be treated at the rate of 1,000 tons a day in the mill of Waite Amulet Mines, Limited, which has been redesigned as a two-circuit plant each with a daily capacity of 1,000 tons. Production from the Waite Amulet property will be reduced from 1,400 to 1,000 tons a day.

Production from Noranda's subsidiary, Gaspé Copper Mines Limited on the Gaspé peninsula, was held up pending the arrival of hydro power. Milling was started on auxiliary steam and diesel power in April 1955 at 1,000 tons daily and later increased to 1,500 tons daily. Hydro-electric power was expected to be available in August 1955 when the mine will get into full production at 6,500 tons daily. This \$40,000,000 project is about 60 miles west of the town of Gaspé where an estimated 70,000,000 tons of low grade copper ore has been outlined. Murdochville, a town named after the President of the parent Company, has been founded with all the services of modern living.

Another important source of copper and of gold, both actual and potential, is the Chibougamau area where Opemiska Copper Mines (Quebec) Limited completed its first full year of production in 1954 and a second copper-gold producer, Campbell Chibougamau Mines Limited, entered production in June 1955 at 1,750 tons a day. Opemiska shipped high grade copper concentrates containing about 7,000 tons of copper to the Noranda smelter for treatment. A third company, Chibougamau Explorers Limited, expected production in September 1955. Exploratory and development activity in the area reached record levels during the review period and hydro-electric power was delivered to the area in June 1955. A railway will be constructed from Beattyville in the Senneterre-Val d'Or district into Chibougamau and thence south to St. Felicien. Present access is by road from St. Felicien and by air.

Copper production also comes from the copper-zinc ores of Waite Amulet Mines Limited, East Sullivan Mines Limited, Quemont Mining Corporation Limited, and Normetal Mining Corporation Limited, all in western Quebec. Golden Manitou Mines Limited, a base metal and gold producer in the same area, resumed the development of a low grade copper deposit north of its main workings and scheduled production of a zinc and a copper concentrate in its converted mill for September 1955. In southern Quebec a small output of copper came from Weedon Pyrite and Copper Corporation Limited in Wolfe county and from Ascot Metals Corporation Limited in Sherbrooke county. In Brome county, Quebec Copper Corporation Limited, a subsidiary of East Sullivan Mines Limited, shipped copper concentrates containing 3,500 tons of copper to the Noranda smelter.

Barvue Mines Limited in Barraute township is the largest producer of zinc concentrates in Quebec. During the review period open pit mining operations were carried on at a rate of about 5,000 tons a day. Zinc production also came from the copper-zinc properties of Quemont, Normetal, Waite Amulet and Weedon Pyrite; the zinc-lead-copper properties of Golden Manitou and Ascot Metals, and the zinc-lead properties of Anacon Lead Mines Limited and New Calumet Mines Limited. All zinc concentrates produced in the Province are exported to the United States and Europe.