

Bralorne Mines Limited, in the Bridge River area of British Columbia, pushed development of the 77 and 79 veins at depth, and The Cariboo Gold Quartz Mining Company Limited and Tofino Mines Limited also undertook development work.

In the Northwest Territories, Giant Yellowknife Gold Mines Limited, the principal producers, were installing a new roaster unit and baghouse to improve recovery of precious metals and planning to deepen the central shaft and increase the mill rate. The Consolidated Mining and Smelting Company planned to deepen the winze at the Con mine and were working new claims to the north of the Rycon mine. Consolidated Discovery Yellowknife Mines Limited began shaft-sinking, with four new levels to be developed, and Akaitcho Yellowknife Gold Mines Ltd. undertook a mapping and diamond-drilling program.

**Silver.**—About 60 p.c. of Canada's silver production is derived from lead-zinc and silver-lead-zinc ores, most of which are mined in British Columbia and Yukon. Fine silver is produced by The Consolidated Mining and Smelting Company of Canada Limited at Trail, B.C., from the refining of lead and zinc ores; by Canadian Copper Refiners Limited, Montreal East, Que., in refining blister copper; by Deloro Smelting and Refining Co. Ltd., Deloro, Ont., from the refining of silver-cobalt ores; by The International Nickel Company of Canada Limited, Copper Cliff, Ont., from the refining of nickel-copper ores; and by Hollinger Consolidated Gold Mines, Limited, Timmins, Ont., and the Royal Canadian Mint, Ottawa, Ont., in refining gold bullion.

Cutbacks at base-metal mines, the source of most of Canada's silver, tended to hold back production in 1957, but their effects were offset by the opening of new mines in Ontario and New Brunswick. The year's output of 28,823,298 oz. t. valued at \$25,182,915 remained close to the 1956 level. In 1958, however, there was a sharp improvement as production rose to 31,311,378 oz. t. valued at \$27,200,192.

In Yukon's Mayo district, Canada's largest single source of silver, United Keno Hill Mines Limited produced about 5,694,850 oz.t. in the fiscal year ended Sept. 30, 1957, derived mostly from the Hector and Calumet mines. Milling at Galkeno Mines Limited, a neighbouring property, was suspended late in the year as the market for base metals fell.

Of mines operated by The Consolidated Mining and Smelting Company of Canada Limited, the Sullivan at Kimberley, B.C., is the principal producer of silver. The company's silver recovery from its own ores and those of custom shippers amounted to 10,877,532 oz.t. in 1957. Other British Columbia producers were Torbrit Silver Mines Limited near Alice Arm; Highland-Bell Limited at Beaverdell; Silver Standard Mines Limited, near Hazelton; ViolaMac Mines Limited, in the Slocan district; Sunshine Lardeau Mines Ltd., at Camborne; Western Exploration Co. Ltd., at Silvertown; Yale Lead and Zinc Mines Limited, at Ainsworth; and Sheep Creek Mines Limited, near Invermere. Giant Mascot Mines Limited, near Spillimacheen, ceased operations in June when their Silver Giant lead-zinc deposit was mined out. Some silver was obtained from two large copper producers—The Granby Consolidated Mining, Smelting and Power Company Limited, near Princeton (closed in April 1957 when the ore was exhausted), and Britannia Mining and Smelting Company Ltd. (closed in March 1958 because of low copper and zinc prices).

About 65 p.c. of Ontario's silver output comes from mines of the Cobalt-Gowganda area. The principal producers—Siscoe Metals of Ontario Limited, Silver-Miller Mines Limited, Castle-Trethewey Mines Limited, Langis Silver and Cobalt Mining Company Limited, Nipissing-O'Brien Mines Limited, and Cobalt Consolidated Mining Corporation Limited—ship their ores mainly to the refinery of Deloro Smelting and Refining Co. Ltd. At Copper Cliff, International Nickel recovered 1,450,000 oz. t. of silver in 1957 as a by-product in the treatment of nickel-copper ores. At Manitouwadge, Geco Mines Limited and Willroy Mines Limited, two new copper-zinc producers, went into operation late in the year. Other sources of silver were Jardun Mines Limited, near Sault Ste. Marie, Falconbridge Nickel Mines Limited, Coldstream Copper Mines Limited and numerous lode-gold mines.