

Magdalen Islands. Some manganese was mined from veins in granite of Devonian age at Chester, N.S. Bog manganese occurs at many places in the area, but has not been exploited successfully. Manganese mining has been of minor importance in Canada but practically all of the ore mined has come from the Maritime Provinces.

Iron deposits occur at numerous localities in the Appalachian and Acadian Region. Magnetite deposits formed by the replacement of schistose quartz porphyry occur near Bathurst, N.B. Ores of sedimentary origin have been mined in the Nictaux-Torbrook iron-ore field of Nova Scotia. At Londonderry, N.S., limonite and carbonate ores occur in a zone of fissuring, along the south slope of the Cobequid Hills. Iron was also mined in a small way many years ago from bog deposits in the Quebec part of the area.

Zinc and lead deposits occur in Gaspé and near Stirling, N.S., and some of them have been mined.

Tungsten and antimony deposits of the Maritime Provinces have been mined to only a very minor extent.

The chief gold producing part of the area is the mainland of Nova Scotia where gold-bearing quartz veins occur in the Gold-Bearing Series. Most of the production has been from veins that followed the bedding of the sedimentary rocks and especially those parts of the veins at or near the crests of anticlines. Although the production from Nova Scotia has never been large compared with Canada's production of to-day, the province has produced gold for eighty years. Gold has also been produced from the Chaudière River district and other places in the Eastern Townships. This gold was in placers and was mined mainly between 1870 and 1885.

Copper has been mined for many years in the Eastern Townships from veins, lenses and replacements in schistose rocks.

Asbestos is mined only in Quebec near Thetford, Black Lake and Asbestos. The deposits occur in stocks of peridotite partly altered to serpentine. Most of the bodies of peridotite have been mapped geologically and therefore possible sources of asbestos are known other than those being exploited. The mode of occurrence of asbestos is quite unlike that of most mineral substances mined. It occurs in closely spaced veins in general much less than an inch wide of pure mineral and the whole rock body must be mined for its recovery.

The peridotite bodies also contain chromite, and either contain or are closely associated with deposits of talc and soapstone.

**The Arctic Archipelago and Hudson Bay Lowland.**—Very little is known of the geology of the Arctic Islands. Precambrian schists and granitoid gneisses occur on Baffin and Ellesmere Islands and probably elsewhere. Palæozoic strata occur on most of the islands and Triassic and Tertiary rocks on a few.

The Hudson Bay Lowland is underlain by flat-lying Ordovician, Silurian and Devonian strata. An area of Mesozoic rocks also occurs along the Moose River.

The severe climatic conditions and the inaccessibility have permitted but little prospecting in the northern islands; gold has been reported from the head of Wager Inlet; native copper has been brought back from Baffin Island; mica and graphite have been found on the north side of Hudson Strait; bituminous coal is known to occur in Carboniferous strata on the islands north of Lancaster Sound and lignite occurs in Tertiary beds on the northern and eastern shores of Baffin Island as well as on Bylot Island.