

yield soils of permanent fertility. Its most prominent mineral is gypsum, in every variety and texture, which occurs in beds in many cases extending for miles, and reaching in thickness 100 feet. It is quarried for export to the United States, chiefly near Windsor, in the basin of Minas, the annual production varying from 100,000 to 150,000 tons. A few thousand tons are annually sent up the Gulf of St. Lawrence from Cape Breton, but the export trade, on account of the difference in freight, is from the Windsor district. Limestone is equally abundant, and is burned for local use, and used in rough masonry, and at Walton, near Windsor, furnishes a beautiful red stone, which it is said will first be used in the new buildings of a prominent New York newspaper. At several points these limestones carry deposits of manganese, lead, iron, and copper-ores and barytes. The manganese is met as pyrolusite with a little hard ore, and is of remarkable purity, carrying very minute amounts of iron. It brings a price varying up to \$100 a ton, but the demand is limited. I am not aware of any deposits of these ores adapted to the steel-makers' purposes. Tenny Cape, Onslow, and Loch Lomond are the best known mines.

The iron-ores are limonite, red hematite, and spathic ore. As yet the ores of this series are little worked, but they are of undoubted value. The purity of some of them may be shown by the following analysis of a sample from Brookfield:

	Per cent.
Water,	11.36
Silica,	1.54
Sulphuric acid,	trace.
Phosphoric acid,	trace.
Metallic iron,	60.00

The spathic ore occurs in beds, the limonite and red hematites as contact and replacement deposits. The lead-ores occur as small segregated veins, and as aggregates. The silver contents of the Nova Scotia lead-ores are variable, assays have returned as high as 100 ounces, but the average would not exceed 10 ounces. The copper-ores resemble in composition and mode of occurrence those already described. Celestine, fluorspar, and brine and mineral springs also occur in these measures.

Devonian (Upper Helderberg, Oriskany).—In the hills lying to the south of the Annapolis valley are numerous important bedded deposits of magnetite and hematite. The ores vary in character, but some are of excellent quality and favorably situated for mining and