

The only intrusive rocks of the region are the igneous masses forming the Monteregian hills. These are eight in number, six of which occur along an east and west line stretching eastward from Montreal. The flanks of the hills consist of altered and hardened sediments and the centres are composed of the intrusive rocks, which include various alkali types such as nepheline syenites, essesites, etc.

The chief natural resources of the St. Lawrence lowlands from a mineral point of view include gypsum, salt, petroleum, and natural gas, occurring in the district between lakes Huron and Erie. Other materials, such as limestone, shale, sandstone, and clay, and sand of the glacial and post-glacial deposits are also made use of in different industries.

The undisturbed character of the rocks has not been favourable for the development of deposits of metalliferous minerals. In eastern Ontario, however, certain lead-bearing calcite veins, though lying for the most part in Precambrian rocks, are known to be post-Ordovician in age, since the upper parts of several cut limestone strata of that age. The Ramsay veins at Carleton Place and the Kingdon vein at Galetta are examples. It is probable that the deposits are related to Devonian intrusives which have not reached the surface in this region, but which correspond to the intrusives of the Monteregian hills to the east.

2.—Economic Geology of the St. Lawrence Lowlands.

Geological Formation.	Mineral Deposits.	
	Minerals Present.	Geological Habit.
PALÆOZOIC—		
Devonian—		
Port Lambton.....	—	
Shales and sandstone.....	—	
Huron shale.....	—	
Hamilton.....	—	
Limestone, shale.....	Petroleum and natural gas.	
Delaware limestone.....	Petroleum.	
Onondaga limestone.....	Petroleum and natural gas.	
Oriskany sandstone.....	—	
Upper Munroe dolomite.....	—	
Sylvania sandstone.....	—	
Silurian—		
Cayuga.....	—	
Lower Munroe dolomite and shale.....	Salt, gypsum.....	In beds.
Salina, shale, dolomite.....		
Guelph.....	Petroleum and natural gas	
Niagara.....	—	
Lockport dolomite.....	—	
Rochester shale.....	—	
Clinton.....	—	
Shales and dolomite.....	Natural gas.	
Medina.....	—	
Sandstone, shale, limestone.....	Petroleum and natural gas.	
Ordovician—		
Richmond shales and limestone.....	—	
Lorrain shales.....	—	
Utica shales.....	—	
Collingwood shales and limestone.....	—	
Trenton limestone.....	Petroleum and gas.	
Black River limestone.....	—	
Chazy sandstones, shales, and limestone.....	—	
Beekmantown dolomitic limestone.....	—	
Basal sandstone.....	—	
Cambrian—		
Potsdam sandstone.....	—	