

and others, is of frequent occurrence in Canada, distributed through the Laurentian rocks in crystals and lamellar pieces, as well as constituting veins and bedded masses of some magnitude. Garnet, however, as a mineral, is one thing, and Garnet, as a gem, is another. Many persons are, perhaps, not aware that this mineral, owing to its various colours, is often made to represent such minerals as the Ruby, Topaz, Chrysolite, Amethyst, or, in fact, any gem that its shade of colour happens to imitate. This imposition is generally confined to closed settings. Independent of the several gems it may be said to represent, it is itself known under various names in the trade according to its colour.

The brownish-red variety known as Almandine is found at several places in Canada, and will at times afford gems. On the river Rouge this mineral occurs in a highly feldspathic rock, in light pinkish-red cleavable masses or imperfect crystals. At Bay St. Paul it occurs of a good colour in mica schist, and in the neighbourhood of Ottawa the red Garnet that is frequently met with in the gneissic rocks probably belongs to this variety. This is the Syrian, also the Oriental or Precious Garnet of the jewellers.

The blood-red Pyrope, Bohemian or Ceylonese Garnet, has not yet been, to my knowledge, found in Canada.

The variety Essonite, or Cinnamon Stone, and at one time called Hyacinth, occurs in the Township of Wakefield of a yellowish and brownish-red colour, from which small gems might be cut. This mineral is mentioned in the Geology of Canada as occurring in the Township of Orford, but is not of gem quality. Another lime Garnet, in well-defined crystals, occurs in limestone in the Township of Wakefield, the crystals of which are sometimes two to three inches across, and vary in colour from colourless through various shades of yellow and green, pieces of which, perfectly free from cleavage joints, will often cut into two carat stones, which are exceedingly brilliant, and might often be mistaken for the Topaz or Chrysolite.

The variety known as Spessartite, a manganesian Garnet, occurs in Muscovite, in flattened brownish-red transparent crystals, in the Township of Villeneuve, and may yet possibly contribute a handsome gem.