GRUNERITE
\[ \text{Fe}^{2+7}\text{Si}_{8}\text{O}_{22}(\text{OH})_{2} \]
(see also cummingtonite)

A member of the amphibole group, grunerite is the iron-rich member of the cummingtonite-grunerite series. It is found almost exclusively in metamorphosed iron formations. It is commonly needle-like and often forms spheroidal aggregates that resist weathering, giving the rock a nodular surface. Northern Peninsula.

Figure 85: Radiating crystals of grunerite in magnetite from near Michigamme Lake, Marquette County. Field of view 2.5 x 3.5 cm. A. E. Seaman Mineral Museum specimen No. DCG 381, Jeffrey Scovil photograph.

Baraga County: 1. Ohio mines, Imperial Heights: With hematite, goethite, carbonates, sulfides, graphite, and palygorskite. 2. Spurr mine, Imperial Heights: With chloritized almandine and magnetite (1, 2, Morris, 1983).

Dickinson County: 1. SW corner of section 5, T41N, R30W; W ¼ section 36, T42N, R30W; and the SE ¼ section 33, T42N, R28W: Grunerite-magnetite-garnet rock in the Felch Formation. 2. Groveland mine. Grunerite rock occurs in Vulcan Iron Formation (1, 2, James et al., 1961).

Gogebic County: Gogebic iron range in general: Ironwood Formation includes grunerite schist (Van Hise and Leith, 1911).

