

TOPAZ
 $\text{Al}_2\text{SiO}_4(\text{F},\text{OH})_2$

Found in granitic pegmatites and a few types of high-temperature hydrothermal veins. It is very rare in Michigan. Northern Peninsula.

Marquette County: 3.2 km south of Humboldt: In a small body of rare-metal-rich albite granite as an accessory mineral with molybdenite, euxenite-(Y), cassiterite, ferrocolumbite, thorite, and fluorite (Hoffman, 1987; Schulz et al., 1988). Topaz is also listed as a pegmatite mineral from the Republic area, Marquette County, in "Michigan's Woods and Waters-A Guide to Outdoor Region One," published and distributed by the Michigan Department of Conservation and the Upper Michigan Tourist Association, but the occurrence is unverified. Another specimen acquired by T. M. Bee (written communication, 1985) consists of a single crystal from an "unidentified quarry in Marquette County." While the specimen is certainly topaz, its locality can not be verified.

FROM: Robinson, G.W., 2004 Mineralogy of Michigan by E.W. Heinrich updated and revised: published by A.E. Seaman Mineral Museum, Houghton, MI, 252p.

UPDATE

Marquette County: Black River pegmatite, NE $\frac{1}{4}$ SE $\frac{1}{4}$ section 20, T47N, R29W: As glassy, yellow to yellowish green masses up to 6 cm across, and as subhedral (and rare euhedral) crystals partially altered to muscovite up to ~5 cm long in pegmatite. Confirmed by X-ray diffraction and EDS and WDS microprobe analyses (Carlson et al., 2010a).

UPDATE FROM: Robinson, G.W., and Carlson, S.M., 2013, Mineralogy of Michigan Update: published online by A.E. Seaman Mineral Museum, Houghton, MI, 46p.