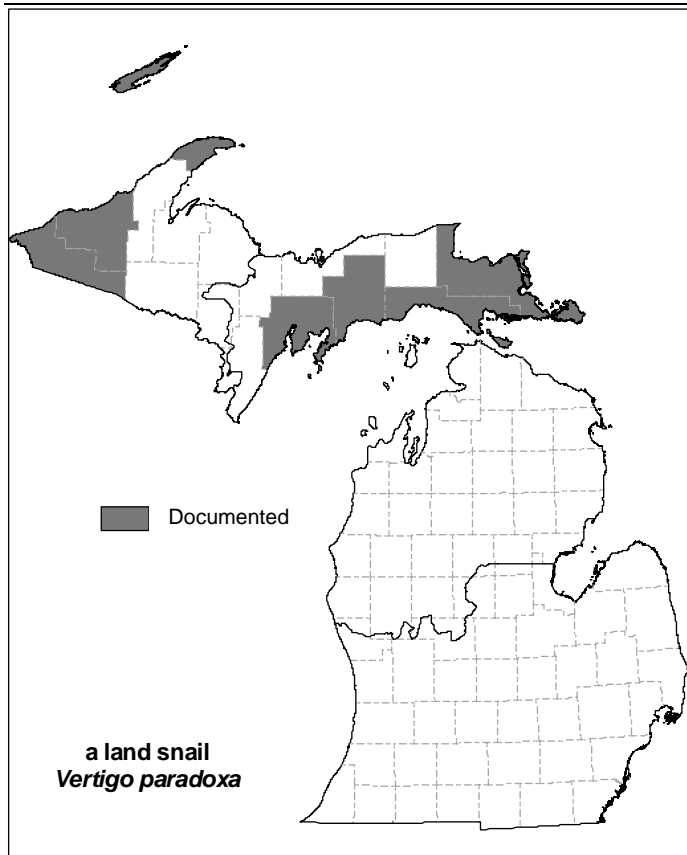


SNAILS



a land snail

(*Vertigo paradoxa*)

DISTRIBUTION & ABUNDANCE: State listed as special concern. Known from 21 sites in the Upper Peninsula. Most of the U.S. populations of this species are in the Upper Peninsula. This species is considered very rare in Michigan and is probably very rare globally.

ASSOCIATED LANDSCAPE FEATURES: lowland hardwood; mesic hardwood; lowland conifer; mesic conifer; inland rock/cliff/ledge

ASSOCIATED THREATS: dredging & channelization; altered fire regime; grazing & mowing patterns; industrial/residential/recreational development; forestry practices; non-consumptive recreation; pesticides & herbicides; urban, municipal, and industrial pollution

COMMENTS: Need additional surveys to assess abundance and distribution; need basic life history information; need to identify threats. Require cool, moist conditions; canopy removal will result in dryer microhabitat conditions unsuitable for this species. Locations of this species in Michigan are susceptible to residential or recreational development and road construction. ORV and foot traffic should be redirected around occupied areas. Rock climbing should be directed away from imperiled snail populations. Acid rain may also pose a threat to this species.