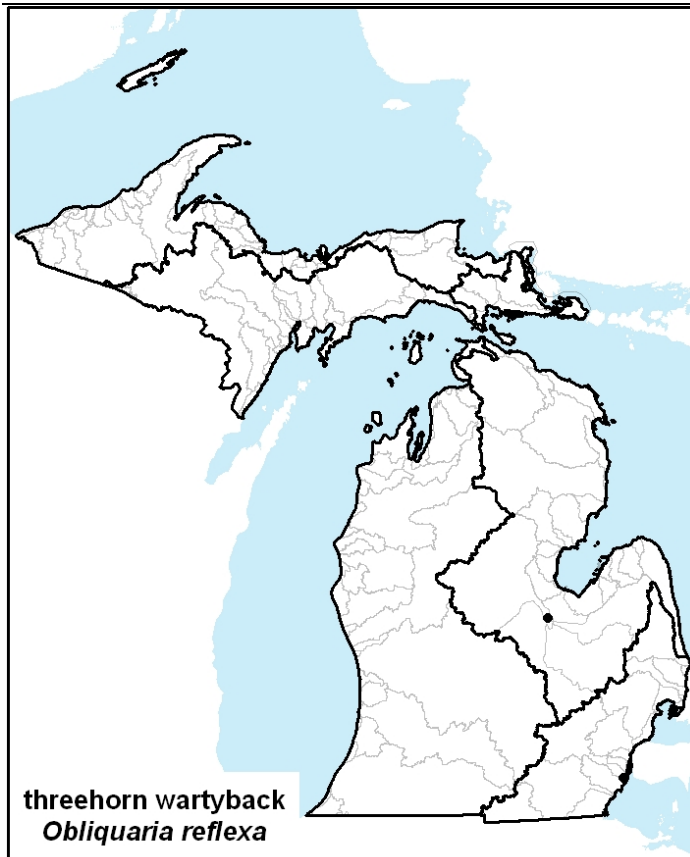


MUSSELS



threehorn wartyback (*Obliquaria reflexa*)

DISTRIBUTION & ABUNDANCE: Very rare in Michigan. Populations in Lake Erie and St. Clair appear to have declined due to zebra mussels. Abundance is unknown.

ASSOCIATED LANDSCAPE FEATURES: medium lakes; large lakes; medium rivers; large rivers; gradient: moderate; rock substrates; soft substrates

ASSOCIATED THREATS: altered hydrologic regimes; altered sediment loads; dams; dredging & channelization; fragmentation; invasive plants & animals; lack of scientific knowledge; pesticides & herbicides; urban, municipal, and industrial pollution

COMMENTS: Host species has only been determined in the laboratory, field verification is needed. The Black River (Lake Erie basin) may be a refugia. Surveys are needed to assess this population. It has been suggested that metamorphosis of this species may happen without parasitizing other species (Oesch 1984).