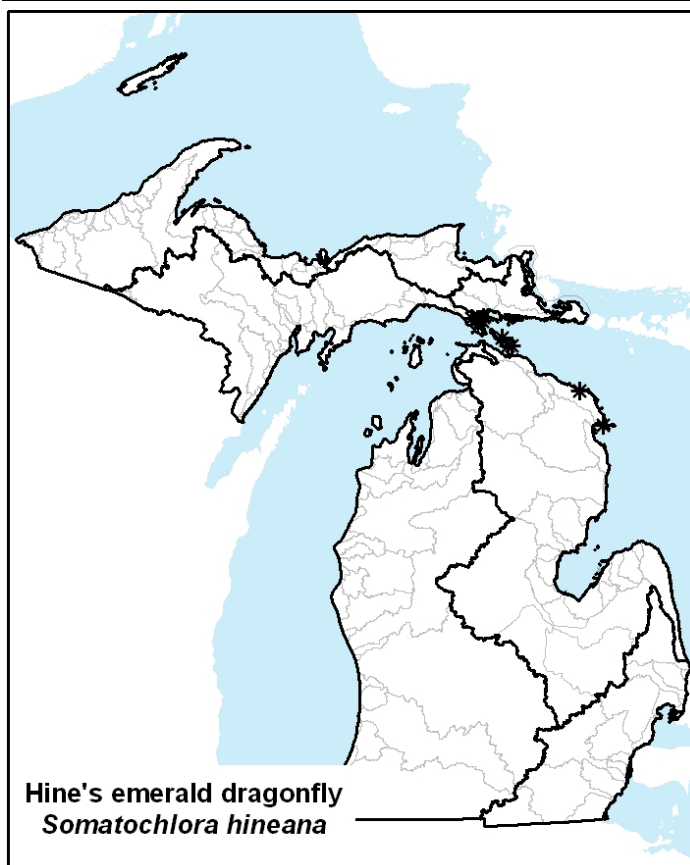


INSECTS



Hine's emerald dragonfly (*Somatochlora hineana*)

DISTRIBUTION & ABUNDANCE: State and federally listed as endangered. Very rare. Abundance is unknown.

ASSOCIATED LANDSCAPE FEATURES: *aquatic:* headwaters & small tributaries; fen; ephemeral wetland; soft substrates; vegetation; other (marl habitats with seeps); *terrestrial:* right-of-way; lowland shrub; forest opening; lowland conifer; inland emergent wetland; river/stream/ riparian/floodplain corridor; coastal emergent wetland; edge

ASSOCIATED THREATS: fragmentation; altered hydrologic regimes; industrial/residential/recreational development; invasive plants & animals; non-consumptive recreation; pesticides & herbicides; scientific research; urban, municipal, and industrial pollution; wetland modifications

COMMENTS: Population monitoring and protection efforts are needed. Larval stage of at least some populations are dependent upon crayfish burrows for persistence during dry periods. Protection of hydrologic patterns is essential at occupied sites.