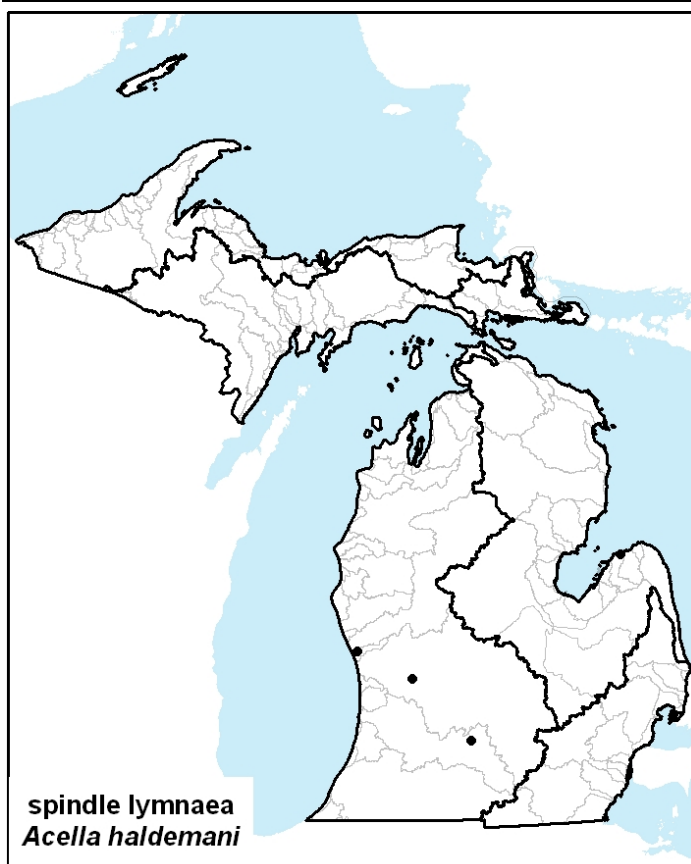


# FRESHWATER SNAILS



## spindle lymnaea

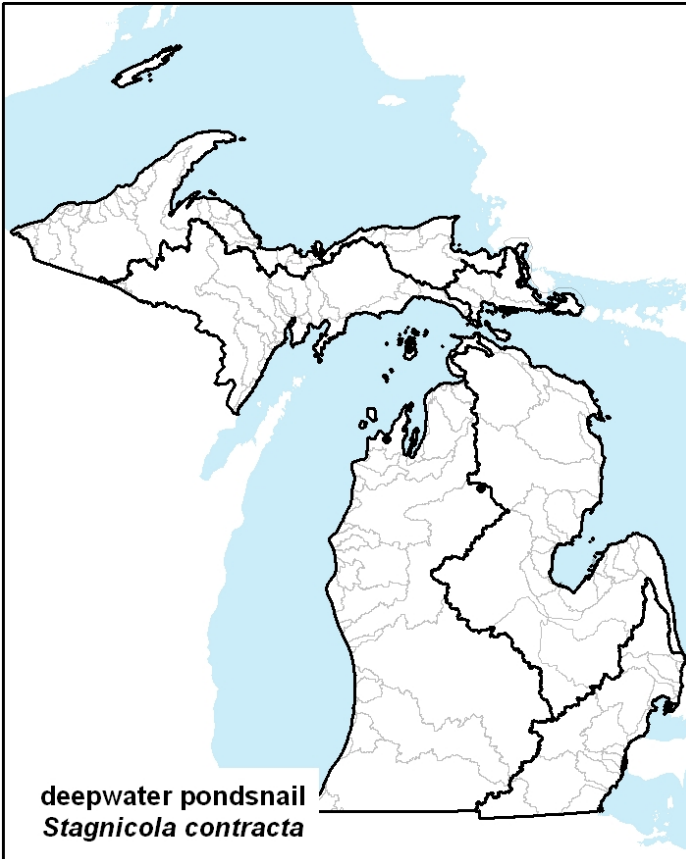
(*Acella haldemani*)

**DISTRIBUTION & ABUNDANCE:** State listed as special concern. This species is rare and seems to have localized populations and is found only sporadically throughout its range. In Michigan it is very rare. Abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** ponds; small lakes; medium lakes; trophic status: eutrophic; swamp; soft substrates; vegetation

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Distribution, population status, life history requirements, and threats need to be determined.



### deepwater pondsnail

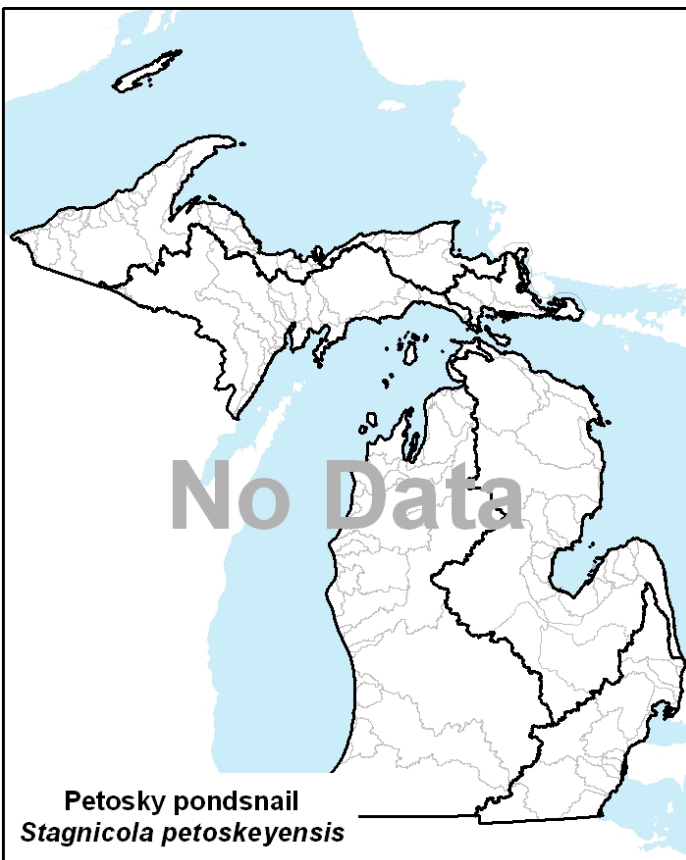
(*Stagnicola contracta*)

**DISTRIBUTION & ABUNDANCE:** State listed as threatened. Known from only four locations, abundance unknown.

**ASSOCIATED LANDSCAPE FEATURES:** large lakes

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Distribution, population status, habitat usage, threats, and general life history information need to be determined.



### Petoskey pondsnail

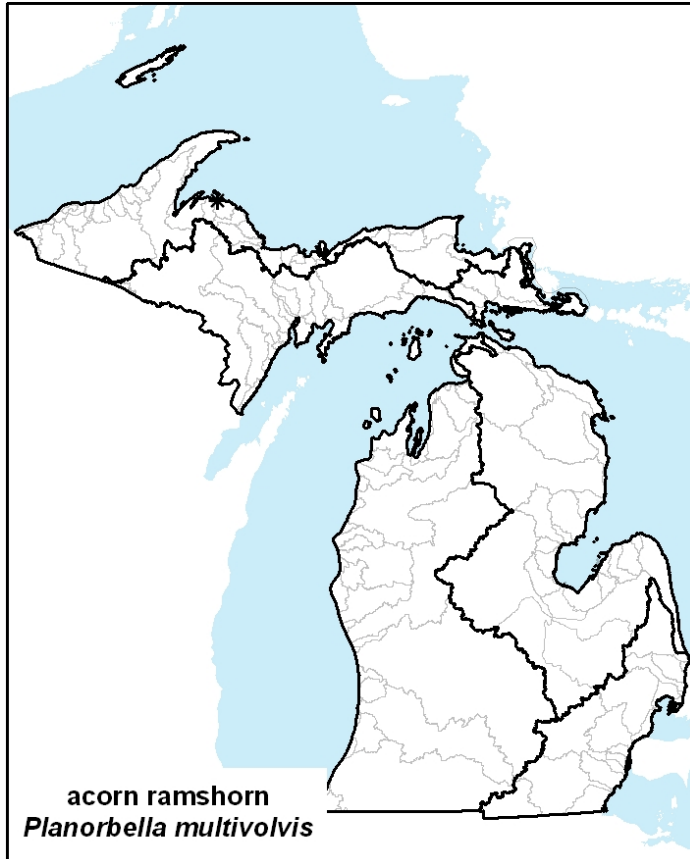
(*Stagnicola petoskeyensis*)

**DISTRIBUTION & ABUNDANCE:** State listed as endangered. This species is only found in one stream draining into Little Traverse Bay near Petoskey in Michigan (no point data available). Abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** headwaters & small tributaries

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Distribution, population status, habitat usage, threats, and general life history information need to be determined.



### acorn ramshorn

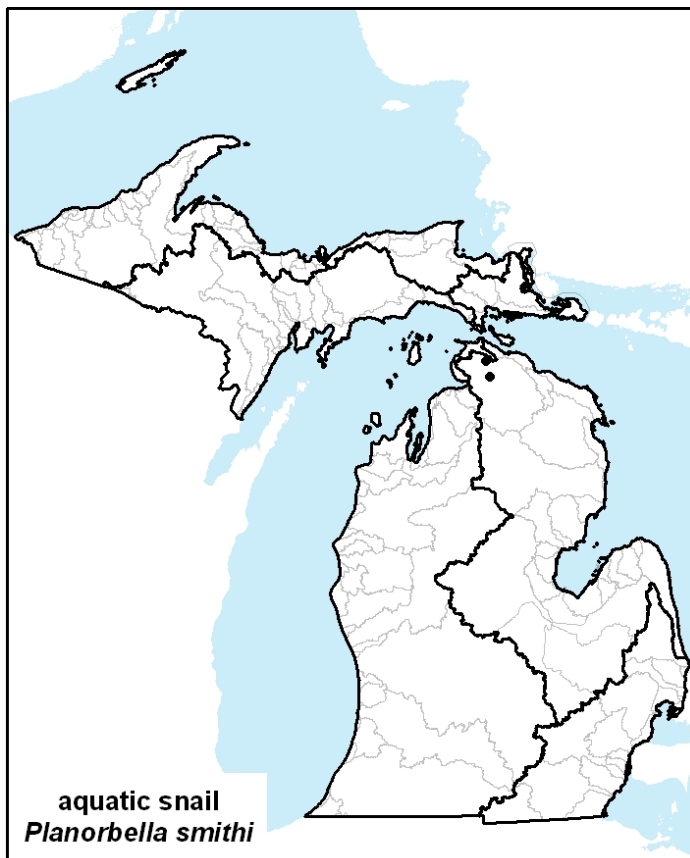
(*Planorbella multivolvis*)

**DISTRIBUTION & ABUNDANCE:** State listed as endangered. This species is believed to be endemic to Howe Lake. Abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** large lakes

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Distribution, population status, habitat usage, threats, and general life history information need to be determined. Species may be extinct (NatureServe 2005).



### aquatic snail

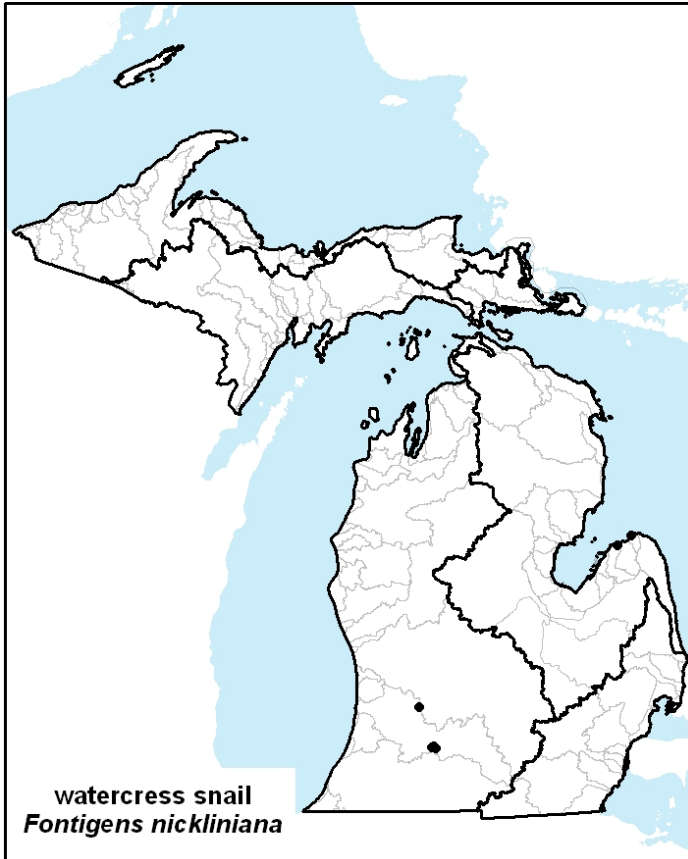
(*Planorbella smithi*)

**DISTRIBUTION & ABUNDANCE:** State listed as special concern. This species has only been found in Douglas and Burt lakes (no point data available), abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** large lakes; trophic status: oligotrophic; soft substrates

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Distribution, population status, habitat usage, threats, and general life history information need to be determined.



### watercress snail

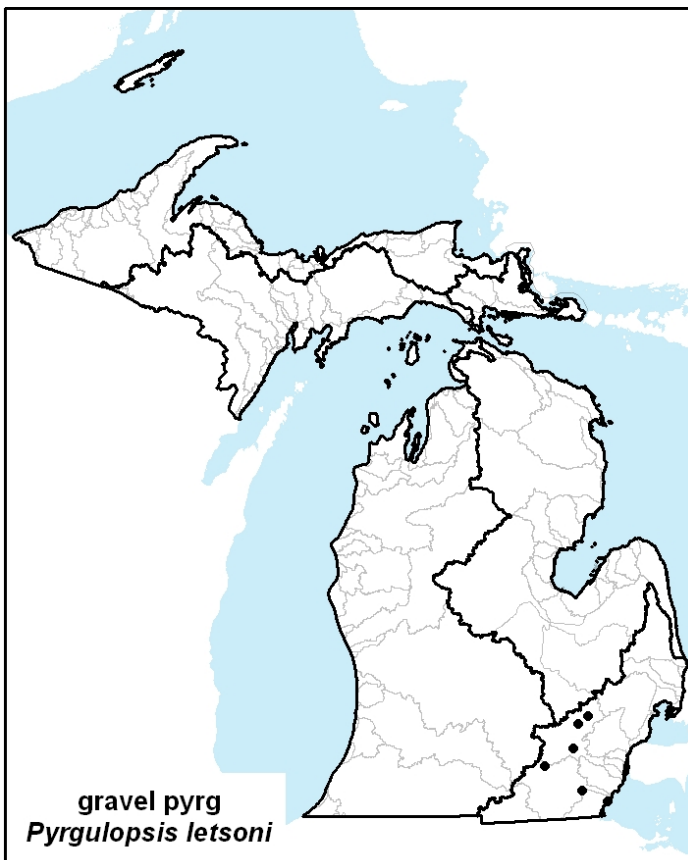
(*Fontigens nickliniana*)

**DISTRIBUTION & ABUNDANCE:** State listed as special concern. Abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** ponds; small lakes; cool headwaters & small tributaries; vegetation

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Population status, distribution and threats information is needed.



### gravel pyrg

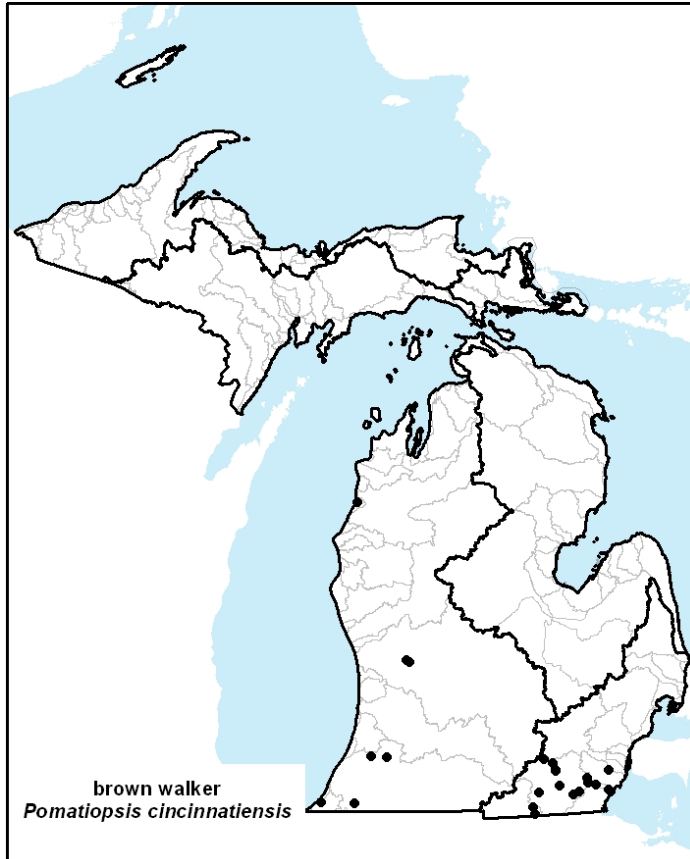
(*Pyrgulopsis letsoni*)

**DISTRIBUTION & ABUNDANCE:** State listed as special concern. Species found only in Lake Erie basin at a few locations. Abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** unknown

**ASSOCIATED THREATS:** lack of scientific knowledge; unknown

**COMMENTS:** Distribution, population status, habitat usage, threats, and general life history information need to be determined.



**brown walker**

*(Pomatiopsis cincinnatiensis)*

**DISTRIBUTION & ABUNDANCE:** State listed as special concern. Occurs occasionally in southern lower Michigan. Abundance is unknown.

**ASSOCIATED LANDSCAPE FEATURES:** headwaters & small tributaries; banks: clay; vegetation; other (hibernates under leaf litter, needs moist banks)

**ASSOCIATED THREATS:** altered hydrologic regimes, altered sediment loads, lack of scientific knowledge, pesticides & herbicides, urban, municipal, and industrial pollution

**COMMENTS:** Population status needs to be determined. Work on dispersal is needed.