

Species: Horned Bladderwort (*Utricularia cornuta*)
Global Rank: G5
State Rank: S2
Climate Change Vulnerability Index: Extremely Vulnerable
Confidence: Very High

Habitat:

The species grows in shallow water or wet, peaty substrate in ponds, bogs, seepages, and along shorelines (PNHP 2010). Horned bladderwort is only found in northeastern Pennsylvania on the Allegheny Plateau but is widely distributed in the eastern and southeastern United States and Canada.

Current Threats:

The species is threatened by beaver activity and anthropogenic development that alters hydrologic regime and increases erosion and sedimentation.

Main Factors Contributing to Vulnerability Rank:

Distribution relative to natural barriers: Horned bladderwort, an aquatic species, is tied to isolated wetlands where it occurs, making movement to a new habitat very difficult if not impossible.

Dispersal and movement: The species does not typically disperse long distances.

Predicted micro sensitivity to changes in temperature: The species is restricted to cool, high elevation wetlands.

Predicted micro sensitivity to changes in precipitation, hydrology, or moisture regime: Horned bladderwort is dependent on wetland habitat and a moisture regime that is highly vulnerable to loss, reduction, or alteration with climate change and the expected direction of moisture change is likely to reduce the species' distribution, abundance, or habitat quality.

Other interspecific interactions: Horned bladderwort is a carnivorous plant that depends on insects as a 'food' source. A reduction in insects could negatively affect this species ability to obtain nitrogen and survive.

References:

Pennsylvania Natural Heritage Program. 2010. PNHP Fact Sheet – Horned Bladderwort.