

Appendix A: Insects

Sedge Darner

Aeshna juncea

Federal Listing	N/A
State Listing	
Global Rank	G5
State Rank	S1
Regional Status	High



+

Photo by Pamela Hunt

Justification (Reason for Concern in NH)

Several species of Odonata are specialized on peatlands of various types, and while many are widespread in appropriate habitat in New Hampshire, a handful appear to be sufficiently rare to warrant additional considerations. In the Northeast Odonata Conservation Assessment (White et al. 2014), Sedge Darner was considered "high vulnerability" due to habitat specificity and a restricted range in the Northeast.

Distribution

The Sedge Darner occurs across boreal regions of the northern Hemisphere, south in North America to Oregon, Colorado, Michigan, and New Hampshire. In NH it is currently known from five sites in the White Mountains: Profile Lake (Franconia), Beaver Pond (Woodstock), Lonesome Lake (Lincoln), Nancy Pond (Livermore, historical record), and Hermit Lake (Sargent's Purchase).

Habitat

Small ponds at relatively high elevation, bordered by fringing peatlands and/or graminoid fens.

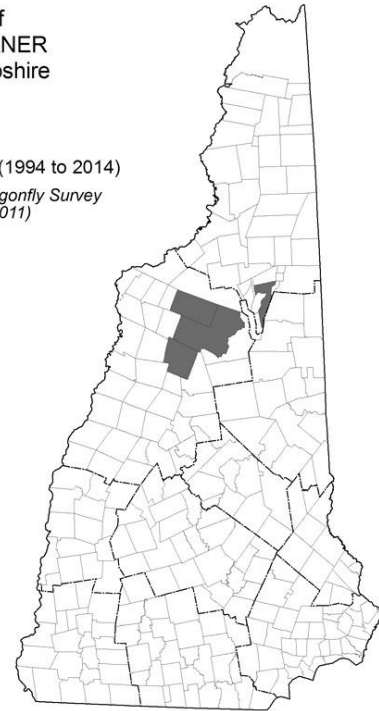
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NH Wildlife Action Plan Habitats

- Peatlands
- Lakes and Ponds with Coldwater Habitat
- High Elevation Spruce-Fir Forest
- Northern Hardwood-Conifer Forest

Distribution of SEdge DARNER in New Hampshire

■ Current (1994 to 2014)
*Includes NH Dragonfly Survey
records (1987-2011)*



Distribution Map

Current Species and Habitat Condition in New Hampshire

Unknown

Population Management Status

Not managed

Regulatory Protection (for explanations, see Appendix I)

- Fill and Dredge in Wetlands - NHDES
- Comprehensive Shoreland Protection Act - NHDES

Quality of Habitat

Unknown

Habitat Protection Status

All known sites are on the White Mountain National Forest

Habitat Management Status

Not managed

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Threats to this Species or Habitat in NH

Threat rankings were calculated by groups of taxonomic or habitat experts using a multistep process (details in Chapter 4). Each threat was ranked for these factors: Spatial Extent, Severity, Immediacy, Certainty, and Reversibility (ability to address the threat). These combined scores produced one overall threat score. Only threats that received a "medium" or "high" score have accompanying text in this profile. Threats that have a low spatial extent, are unlikely to occur in the next ten years, or there is uncertainty in the data will be ranked lower due to these factors.

There were no threats ranked high or medium for this species.

List of Lower Ranking Threats:

Habitat degradation and disturbance from acid deposition
Habitat impacts from stocking fish in formerly "fishless" ponds
Habitat conversion due to development

Actions to benefit this Species or Habitat in NH

Sedge Darner surveys

Objective:

Determine status of this species in the state

General Strategy:

Experienced observers working in suitable habitat should be aware of this species' potential occurrence and report it if found and documented.

Political Location:

Carroll County, Coos County, Grafton County

Watershed Location:

References, Data Sources and Authors

Data Sources

NH Dragonfly Survey (Hunt 2012). Hunt, unpub. Data

Data Quality

2015 Authors:

Pamela Hunt, NHA

2005 Authors:

Literature

Amico, F.D., S. Darblade, S. Avignon, S. Blanc-Manel, and S.J. Ormerod. 2004. Odonates as indicators of shallow lake restoration by liming: Comparing adult and larval responses. *Restoration Ecology* 12: 439-446.

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Hudson, J., and M. Berrill. 1986. Tolerance of low pH exposure by the eggs of Odonata (dragonflies and damselflies). *Hydrobiologia* 140: 21-25.

Hunt, P.D. 2012. The New Hampshire Dragonfly Survey: A final report. Report to NH Fish and Game Department, Nongame and Endangered Species Program. New Hampshire Audubon, Concord, NH.

White, E.L., P.D. Hunt, M.D. Schessinger, J.D. Corser, and P.G. deMaynadier. 2014. A conservation status assessment of Odonata for the northeastern United States. Report to Northeastern Association of Fish and Wildlife Agencies. New York Natural Heritage Program, Albany, NY.