

Pine Barrens Odonate Specialists

There are no odonate species currently known to be strictly endemic to New Jersey or the Pine Barrens. Within New Jersey however, there are many species that SEEM to be Pine Barrens obligates/specialists:

Damselflies:

Sparkling Jewelwing
Southern Sprite
Seepage Dancer
Pine Barrens Bluet*
Blackwater Bluet
Attenuated Bluet
Scarlet Bluet*

Dragonflies:

Taper-tailed Darner
Banner Clubtail*
Common Sanddragon
Mantled Baskettail
Stripe-winged Baskettail
Robust Baskettail*
Treetop Emerald
Fine-lined Emerald
Coppery Emerald
Yellow-sided Skimmer
Golden-winged Skimmer*
Double-ringed Pennant

*Threatened/Special Concern

Report rare sightings on the DEP's Endangered and Non-game species website. Click on

Rare Wildlife Sighting Report Form

– <http://www.state.nj.us/dep/fgw/ensp/rprtform.htm>

www.njodes.com

Click on NJ Odonata survey, and report form

http://www.njodes.com/njos/rare_bug_form.htm

182 spp documented in NJ

The reason for this high diversity is the varied topography found throughout the state, especially the Ridge & Valley (142 species), Highlands (130 species), and Coastal plain/Pinelands (125 species)

32 spp in trouble: Threatened (6), endangered (1), species of concern(25)

In Pinelands, 2 threatened and 6 special concern

Threatened:

Banner clubtail: tea colored streams, clean, highly acidic with sandy substrate & large amounts of organic matter. Emerge early: late April-early May

Robust baskettail: flood plain swamps/marshes bordering large streams and rivers. Emerge early: April-May

Special concern:

Pine Barrens Bluet: very limited range, but quite common within the pinelands in shallow acidic ponds with muddy substrates and ample vegetation, also along shallow muddy fringes of large lakes

New England Bluet: spring-fed ponds with well-developed bogs and abundant sphagnum moss

Scarlet Bluet: acidic sand-bottom lakes/ponds with ample vegetation

Allegheny River Cruiser: clean rivers, usually tea colored with sand and gravel bottom

Coppery Emerald: small forest streams, or flying high over sand roads in the pinelands

Golden-winged skimmer: Often perch on the tips of plants; found only at a small number of locations in the coastal plain; inland sand-bottomed ponds