Dragonflies and damselflies are similar but can be distinguished by several conspicuous characteristics. Most obvious is that at rest dragonflies hold their wings spread out to the side of their bodies, while most damselflies (Spreadwings and the Aurora Damsel are



exceptions) hold their wings together pointing upwards. Also, the front and back wings of a damselfy are the same shape. The front and hind wings of a dragonfly differ somewhat in shape. Dragonflies have giant eyes that take up nearly their entire head surface and, in most species of dragonfly, the eyes touch. In damselflies the eyes are smaller and do not touch. Dragonflies have a robust body structure to support their large, broad wings, while damselflies also have a very slim body structure. In the air, dragonflies are strong, fast fliers while damselflies have a simple fluttering flight.

There are seven families of dragonflies and damselflies found at Schiff, each of which is easily identifiable with some practice. These insects are commonly found around ponds and small streams and can also be found hunting in the Great Meadow. Dragonflies and damselflies are valuable predators that eat mosquitoes and other small insects like flies, bees, ants, and butterflies.



Work still needs to be done to add to our understanding of dragonfly and damselfly distribution at Schiff. Please send comments or sightings to: info@schiffnaturepreserve.org or call the Nature Center at 973-543-6004. Reports should include sighting date, exact location, observed behavior and photographs, if possible.

The premiere resource for studying these fascinating bugs in our home state: Field Guide to Dragonflies and Damselflies of New Jersey by Allen E. Barlow, David M. Golden, and Jim Bangma.

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List updated: January 2010.

For an online resource and photographic guide to New Jersey dragonflies and damselflies visit www.njodes.com

All photos courtesy of Allen Barlow



Schiff Natural Lands Trust 339 Pleasant Valley Road Mendham, NJ 07945 973-543-6004 www.schiffnaturepreserve.org

Paper info to come

## Dragonflies & Damselflies

Scientific Name: Insecta: Odonata

OF SCHIFF NATURE PRESERVE



The order Odonata contains the dragonflies and damselflies and is one of the most popular insect groups because they are large, colorful and have interesting behaviors when feeding and reproducing. Schiff Nature Preserve is home to at least 49 species of odonates.





e de	Maria Cara		
	Key To Status* C - Common; seen in proper hal U - Uncommon; visitor or occas R - Rare; Seen at preserve, but t	ionally see	n
	Common Name Scientific Name	Status*	Flight Period
	Broad-Winged Day Calopterygidae	msels	
	☐ Ebony Jewelwing Calopteryx maculata	С	May – Sept
	Clubtails Gomphidae		
	☐ Ashy Clubtail  Gomphus (Gomphus)  lividus	С	May – Jul
	☐ Black-shouldered Spin Dromogomphus spinosus		Jun – Sept
	☐ Eastern Least Clubtail Stylogomphus albistylus	С	May – Sept
	☐ Southern Pygmy Clubt  Lanthus vernalis	ail R	May – Jun
	☐ Unicorn Clubtail Arigomphus villosipes	С	May – Aug
	Darners Aeshnidae		
	☐ Comet Darner  Anax longipes	U	May – Sept
	□ Common Green Darne  Anax junius	r C	Mar – Nov
	☐ Fawn Darner  Boyeria vinosa	С	May – Nov
	☐ Shadow Darner Aeshna umbrosa	С	Jun – Nov
	☐ Swamp Darner Epiaeschna heros	U	May – Sept

Emeralds Corduliidae		
□ Clamp-Tipped Emerald Somatochlora tenebrosa		Jun – Sept
☐ Common Baskettail  Epitheca (Tetragoneuria)  cynosura	С	May – Jul
☐ Mocha Emerald  Somatochlora linearis	U	Jun – Sept
☐ Prince Baskettail Epitheca (Epicordulia) princeps	С	May – Sept
Pond Damsels Coenagrionidae		
☐ Aurora Damsel Chromagrion conditum	U	May – July
☐ Azure Bluet Enallagma aspersum	С	June – Sept
☐ Blue-Fronted Dancer  Argia apicalis	С	June – Aug
□ Double-Striped Bluet Enallagma basidens	R	May – Sep
☐ Eastern Forktail  Ischnura verticalis	С	Apr – Oct
☐ Familiar Bluet  Enallagma civile	С	Mar – Oct
☐ Fragile Forktail  Ischnura posita	С	Apr – Oct
☐ Orange Bluet  Enallagma signatum	С	May – Oct
☐ Powdered Dancer Argia moesta	С	Jun – Sept
☐ Skimming Bluet Enallagma geminatum	С	May – Oct
☐ Turquoise Bluet Enallagma divagans	С	May – Aug
☐ Violet Dancer Argia fumipennis violacea	U	May – Sept
<b>Skimmers</b> Libellulidae		
	k	
☐ Autumn Meadowhawl Sympetrum vicinum	c	Jun – Dec

☐ Black Saddlebags  Tramea lacerata	С	Apr – Nov
☐ Blue Dasher  Pachydiplax longipennis	С	May – Oct
☐ Calico Pennant Celithemis elisa	С	May – Oct
☐ Carolina Saddlebags  Tramea carolina	U	May-Sept
☐ Common Whitetail  Plathemis lydia	С	Apr – Nov
☐ Eastern Amberwing  Perithemis tenera	С	Jun – Sept
		•
☐ "Eastern" Cherry-Face		
Sympetrum internum	С	Jun – Oct
☐ Eastern Pondhawk  Erythemis simplicicollis	С	May – Oct
☐ Halloween Pennant Celithemis eponina	С	Jun – Sept
☐ Painted Skimmer Libellula semifasciata	С	May – Oct
☐ Slaty Skimmer  Libellula incesta	С	May – Oct
☐ Spangled Skimmer Libellula cyanea	С	Apr – Sept
☐ Twelve-Spotted Skimi	mer	
Libellula pulchella	C	May - Oct
☐ Wandering Glider  Pantala flavescens	С	Jun – Nov
☐ Widow Skimmer Libellula luctuosa	С	May – Oct
<b>Spiketails</b> Cordulegastridae		
☐ Delta-Spotted Spiketa	il	
Cordulegaster diastatops		May – Jun
☐ Tiger Spiketail		
Cordulegaster erronea	R	Jun – Sept
Spreadwings Lestidae		
☐ Slender Spreadwing  Lestes rectangularis	С	June – Sept
☐ Swamp Spreadwing  Lestes vigilax	С	June – Sept