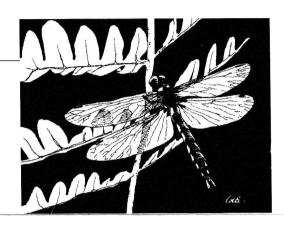


Dragonfly Fact Sheet

What is a dragonfly?

Most people are familiar with the four-winged insect that has a long body and colorful markings. They are sighted flying quickly or hovering as they look for prey. Dragonflies are predators, whisking other flying insects into a trap formed by their hairy legs. Their powerful jaws chomp through their prey starting with the head first. The fossil record includes dragonflies with 3-foot wingspans and indicates that dragonflies appeared on earth well before dinosaurs.



Dragonfly Life Cycle

A dragonfly's life begins underwater after the female lays her eggs, dropping them into water or inserting them into a plant or sand near water. The egg hatches into a larva after about 10 days.

Dragonfly larvae live underwater for several years—up to 8 years in some species—eating other aquatic insects, tadpoles, and even small fish to survive. They shed their outer skin as they grow. To escape from predators such as fish, dragonfly larvae can shoot water forcefully out of the ends of their abdomens which propels them quickly away from danger.

Once a larva is ready to become an adult, a transformation occurs. The dragonfly stops eating and crawls to the edge of the water. It climbs onto something that it can hold firmly and begins to gulp air to expand its body.

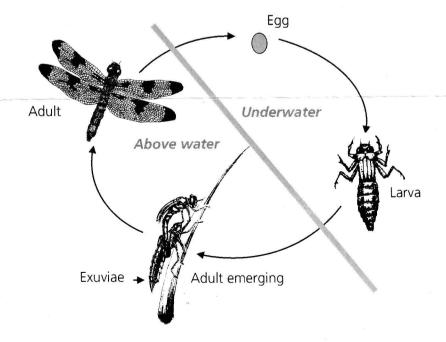
The outer skin then splits behind its head. Slowly, the adult dragonfly pulls itself out of its outer skin. The wings unfurl and the dragonfly rests as it dries. Once dried, it usually flies away from the water to hunt its first meal. The empty skin left behind is called an exuviae.

St. Croix Discovery

Biologist William Smith collected dragonfly exuviae at County Road O Landing on the St. Croix River during the summer of 1989. He noticed that some of the exuviae looked different from the others. He took them back to the laboratory and looked at them under a microscope.

He then collected live dragonfly larvae. The larvae were raised to adults in the laboratory. As the adults emerged, it was clear to biologists that they were looking at an unknown species.

The new species was named <u>Ophiogomphus susbehcha</u>, the St. Croix Snaketail Dragonfly. It prefers clean, large river habitat.



St. Croix National Scenic Riverway • 2015

Dragonflies on the Riverway

The following species occur on either the St. Croix or Namekagon rivers. Damselflies are closely related to dragonflies and can be identified by how they hold their wings when resting. Damselflies fold their wings up over their backs while dragonflies hold their wings out flat.

Dragonflies

Diagonines	*
Common Name	Scientific Name
Darners	
Canada Darner	Aeshna canadensis
Lance-tipped Darner	Aeshna constricta
Shadow Darner	Aeshna umbrosa
Green Darner	Anax junius
Springtime Darner	Basiaeschna janata
Fawn Darner	Boyeria vinosa
Clubtails	
Horned Clubtail	Arigomphus cornutus
Black-shouldered Spinyleg	Dromogomphus spinosis
Midland Clubtail	Gomphurus fraternus
* Splendid Clubtail	Gomphurus lineatifrons
Cobra Clubtail	Gomphurus vastus
* Skillet Clubtail	Gomphurus ventricosus
Moustached Clubtail	Gomphus adelphus
*Green-faced Clubtail	Gomphus viridifrons
Ashy Clubtail	Gomphus lividus
* Rapids Clubtail	Gomphus quadricolor
Dusky Clubtail	Gomphus spicatus
Dragonhunter	Hagenius brevistylus
* Extra-striped Snaketail	Ophiogomphus anomalus
Boreal Snaketail	Ophiogomphus colubrinus
* Pygmy Snaketail	Ophiogomphus howei
Rusty Snaketail	Ophiogomphus rupinsulensis
* St. Croix Snaketail	Ophiogomphus susbehcha
Common Sanddragon	Progomphus obscurus
* Riverine Clubtail	Stylurus amnicola
Arrow Clubtail	Stylurus spiniceps
Spiketails	
Twin-spotted spiketail	Cordulegaster maculate
* Arrowhead Spiketail	Cordulegaster oblique
Cruisers	D: 1
Stream Cruiser	Didymops transversa
Illinois River Cruiser	Macromia illinoiensis
Emeralds Packet tailed Emerald	Dorocordulia libera
Racket-tailed Emerald	
Beaverpond Baskettail Prince Baskettail	Epitheca canis
Common Baskettail	Epitheca princes Epitheca cynosure
	1 0
Spiny Baskettail * Smoky Shadowfly	Epitheca spinigera Neurocordulia molesta
* Smoky Shadowfly * Stygion Shadowfly	
* Stygian Shadowfly	Neurocordulia yamaskanensis
* Kennedy's Emerald	Somatochlora kennedyi

Skimmers

Calico pennant Celithemis elisa
Dot-tailed Whiteface Leucorrhinia intacta
Pied Skimmer Libellula luctuosa
Four-spotted Skimmer Libellula quadrimaculata

Miscellaneous

(no common name) Ladona julia Whitetail Plathemis lydia

Damselflies

Common Name	Scientific Name
Broad-winged Damsels	
River Jewelwing	Calopteryx aequabilis
Ebony Jewelwing	Calopteryx maculate
American Ruby-spot	Hetaerina americana
Pond Damsels	
Blue-fronted Dancer	Argia apicalis
Blue-tipped Dancer	Argia tibialis
Hagen's Bluet	Enallagma hageni

^{*} Population is listed as endangered, threatened, rare, or of special concern by state and/or federal agencies.

Learn More

Student Books

<u>Dragonflies</u>, Molly McLaughlin. 1989. Walker & Company.

Nature Close-Up – Dragonflies and Damselflies, Dwight Kuhn, 2005. Blackbirch Press

Guide Books

<u>Guide to Common Dragonflies of Wisconsin</u>, Karl & Dorothy Legler, 1996.

<u>Damselflies of the North Woods</u>, Robert Dubois, 2005. Kollath-Stensaas.

<u>Dragonflies of the North Woods</u>, Kurt Mead, 2003. Adventure Publications.

Stoke's Beginner's Guide to Dragonflies, Blair Nikula, Jackie Sones, Lillian Stokes, Donald Stokes, 2002. Little, Brown and Company.

<u>Dragonflies Through Binoculars</u>, Sidney W. Dunkle, 2000. Oxford University Press