

Finger Lakes Regional Stream Monitoring Network



Stream Insects and Crustaceans ID Card

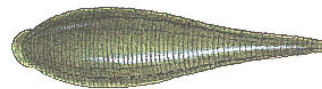
Lines under each picture indicate the relative size of the organisms



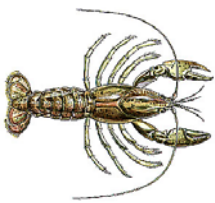
Aquatic Worm:
Class Oligocheata
 $\frac{1}{4}$ " - 2", can be very tiny; thin, wormlike body, tolerant of impairment



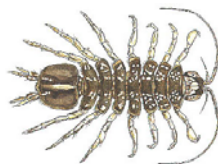
Flat Worm:
Family Planariidae
Up to $\frac{1}{4}$ ", soft body, may have distinct head with eyespots, tolerant of impairment



Leech:
Order Hirudinea
 $\frac{1}{4}$ " - 2", segmented body, suction cups on both ends, tolerant of impairment



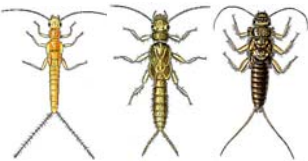
Crayfish: Order Decapoda
Up to 6", 2 large claws, 8 legs, resembles a small lobster, somewhat tolerant of impairment



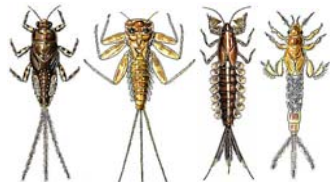
Sowbug: Order Isopoda
 $\frac{1}{4}$ " - $\frac{3}{4}$ ", gray oblong body wider than it is high, more than 6 legs, long antennae, somewhat tolerant of impairment



Scud: Order Amphipoda
 $\frac{1}{4}$ ", white to gray, body higher than it is wide, swims sideways, more than 6 legs, resembles small shrimp, somewhat tolerant of impairment



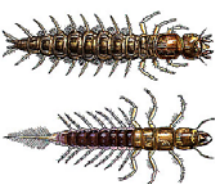
Stonefly: Order Plecoptera
 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ ", 6 legs with hooked tips, antennae, 2 hair-like tails, no gills on abdomen, very intolerant of impairment



Mayfly: Order Ephemeroptera
 $\frac{1}{4}$ " - 1", plate-like or feathery gills on abdomen, 6 hooked legs, 2 or 3 long hair-like tails, tails may be webbed together, very intolerant of impairment



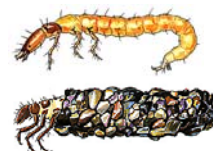
Dragonfly and Damselfly: Order Odonata
 $\frac{1}{2}$ " - 2", large eyes, 6 hooked legs, large protracting lower jaw, 3 broad oar-shaped tails OR wide oval to round abdomen, somewhat tolerant of impairment



Hellgrammite, Fishfly, and Alderfly: Order Megaloptera
 $\frac{3}{4}$ " - 4", 6 legs, large pinching jaws, 8 pairs of feelers along abdomen, 2 hooks on tail end OR 1 single spiky tail, somewhat tolerant of impairment



Common Netspinners: Family Hydropsychidae
Up to $\frac{3}{4}$ ", 6 hooked legs on upper 1/3 of body, 2 hooks at back end, underside of abdomen with white tufts of gills, somewhat tolerant of impairment



Most Caddisfly: Order Trichoptera
Up to 1", 6 hooked legs on upper 1/3 of body, may be in stick, rock or leaf case, no gill tufts on abdomen, intolerant of impairment

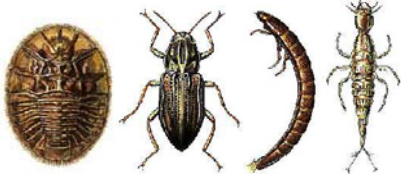
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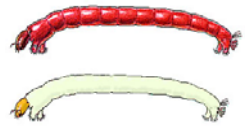


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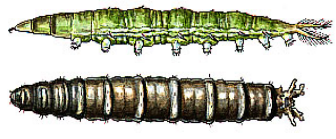
Beetles: Order Coleoptera
 $\frac{1}{4}$ " - 1", disk-like oval body with 6 small legs and gill tufts on underside OR small black beetle crawling on streambed OR comma-like brown "crunchy" body with 6 legs on upper 1/3 and possibly gill tuft on back end, OR (miscellaneous body form - rare), somewhat tolerant of impairment




Midges: Family Chironomidae
 Up to $\frac{1}{4}$ ", distinct head, worm-like segmented body, 2 leg-like projections on each side, often whitish to clear, occasionally bright red, tolerant of impairment




Black Fly: Family Simuliidae
 Up to $\frac{1}{4}$ ", end of body wider (like bowling pin), distinctive head, sucker on end, tolerant of impairment



Most True Flies: Order Diptera
 $\frac{1}{4}$ " - 2", bodies plump and maggot-like, may have caterpillar like "legs" along body, may have lobes or conical tails on end, tolerant of impairment



Gilled Snails: Class Gastropoda
 Up to $\frac{3}{4}$ ", shell opening covered by a thin plate called an operculum, with helix pointed up shell opens to the right, intolerant of impairment

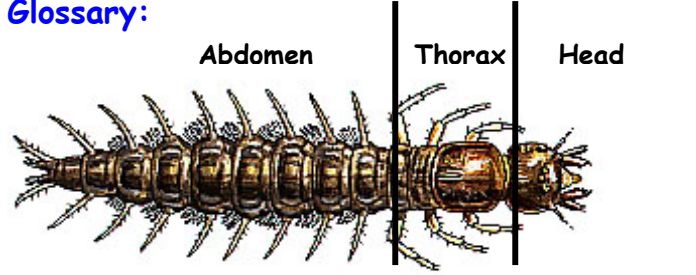


Lunged Snails: Class Gastropoda
 Up to $\frac{3}{4}$ ", no operculum, with helix pointed up shell opens to the left, tolerant of impairment




Clams: Class Bivalvia
 Up to $\frac{3}{4}$ ", fleshy body enclosed between two clamped together shells (if clam is alive, shells cannot be pried apart without harming clam), somewhat tolerant of impairment

Glossary:



Tails: There are many different kinds of macroinvertebrate tails. The thin thread-like tails found on stoneflies and mayflies are called cerci. The oar-shaped tails found on a damselfly are not really tails - they are actually gills called caudal lamellae!



VA Save Our Streams Program
 VA Division of the Izaak Walton League of America
 P.O. Box 8297
 Richmond, VA 23226
 (804) 615-5036 www.vasos.org

These sheets are modified from the National Izaak Walton League of America SOS Program Stream Insects & Crustaceans ID Card.
<http://www.iwla.org/SOS/index.html>

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