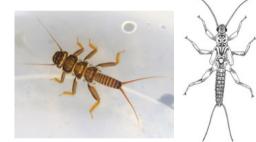
Guide to Aquatic Macroinvertebrates: The Basics





- Small crunchy, comma shaped body, up to 1/2 inch
- 3 pairs of segmented legs
- · Gills and 2 hooks on posterior end

Stonefly



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- Long antennae
- 2 tails
- No gills on abdomen 3 pairs of segmented legs

Dragonfly



- · Oval/round abdomen (may be wider than it is tall)
- Large eyes
- 3 pairs of segment legs

Riffle Beetle Adult



- Oblong beetle shape, long antennae •
- Small, 1/16 1/8 of an inch
- · Walks slowly underwater, doesn't swim on surface

Damselfly



- 3 broad oar-shaped tails
- Long, narrow body with no gills on abdomen
- 3 pairs of spindly segmented legs

Dobsonfly (Hellgrammite)



- 8 pairs of fleshy appendages on abdomen
- Cotton-like gill tufts between appendages
- · Large pinching jaw

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Water Penny



- Flat saucer-shaped body
- 3 tiny pairs of legs on the underside •
- Up to 1/2 inch

Common Net Spinning Caddisfly



- · Head and first three thoraxes are hardened
- 2 fleshy, hairy hooks on the posterior
- 3 pairs of segmented legs
- · Gill tufts on abdomen

Fishfly



- 8 pairs of fleshy appendages on abdomen
- No gill tufts
- Forked posterior with 2 fleshly tails

Mayfly



- · Feather or leaf-like gills on the abdomen

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- Typically has 3 tails (can have 2)
- 3 pairs of segmented legs

Case-making/Free living Caddisfly





- May have a case constructed of sand, gravel, leaves or twigs
- · Hardened head with grub-like soft body
- · 3 pairs of segmented legs with hooks on the posterior

Alderfly





- 7 pairs of fleshy appendages on abdomen, no gill tufts
- · One long thin branched tail

















- Uniformly wide, segmented body
- Distinct head
- · Pair of prolegs behind the head and at the posterior
- Up to 1/4 inch

Crayfish



- Lobster-like body
- Two large claws near the head

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1/2 - 5 inches

Gilled Snail



- Shell opens to the right when holding the shell with the narrow end pointing up and the opening facing you
- Has an operculum (thin plate covering the shell opening)

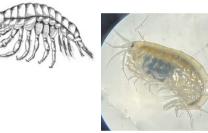
Crane Fly





- Plump, caterpillar-like, segmented body
- 4 fingerlike lobes at the posterior
- 1/2 1 inch

Scud



- Shrimp-like body, no hard covering

Lunged Snail



- Shell opens to the left when holding the shell with the narrow end pointing up and the opening facing you
- No operculum
- Shell might be in a coiled shape



- · Bowling pin shaped body
- Distinct head with one proleg directly underneath
- Up to 1/4 inch

Sowbug



- Oblong body
- 2 pairs of antennae, one longer than the other

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• Armor-like appearance

Aquatic Worm



- No distinct head
- No legs
- 1/4 2 inches

Water Snipe





- · Soft, fleshy body with tapered ends
- Caterpillar-like legs
- · 2 feathery 'horns' at the posterior

Clams & Mussels





 Fleshy body enclosed between two-hinged shells

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1/8 - 5 inches

Leech



· Worm-like segmented body

- Both ends have suckers
- 1/4 2 inches

Flatworm (Planaria)

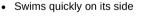




- Soft elongated body
- Triangular shaped head with eyes on top



- Long antennae
- 7 pairs of legs



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