Name Date

## Stonefly Nymph Fact Sheet

Order: Plecoptera

Families:

• Perlidae—Common

• Perlodidae—Perlodid

Leuctridae—Rolledwinged

Number of species in North America: 500

**Size:** 5-35 mm

Similar to: Mayfly Nymph

• Stoneflies have 2 tails, mayflies have 3.

• Stoneflies have 2 claws, mayflies have 1.

 Stoneflies do not have abdominal gills, mayflies do.

 Stoneflies have long antenna, mayflies have short antenna.

 Stoneflies have a double set of wings, mayflies have one set. **Diet:** Small aquatic plants (periphyton) and animals; organic debris; fungi and bacteria from decomposing leaves.

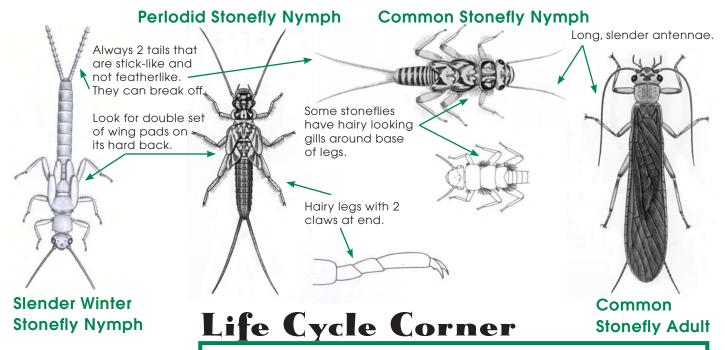
**Food for:** Fish (especially trout), predaceous water insects, crayfish.

**Habitat:** Bottom dweller, on/under rocks, flowing waters (streams and rivers), rarely ponds or lakes

**Movement:** Crawling on the bottom, some drift.

**Breathing:** Gills, which are sometimes visible around base of legs; will do "push-ups" to elevate oxygen flow over body.

**Water Quality Indicator:** Group I—generally sensitive to pollution; a large number indicates *good* water quality.



Images: McCafferty, W. Patrick. Aquatic



## **Incomplete Metamorphisis**

Eggs deposited in water; a sticky coating keeps them on the bottom. Larva crawl out of water and then transform into adult. (Larva or nymph stage is long (months-year). Molts up to 22 times.



Entomology, 1981.