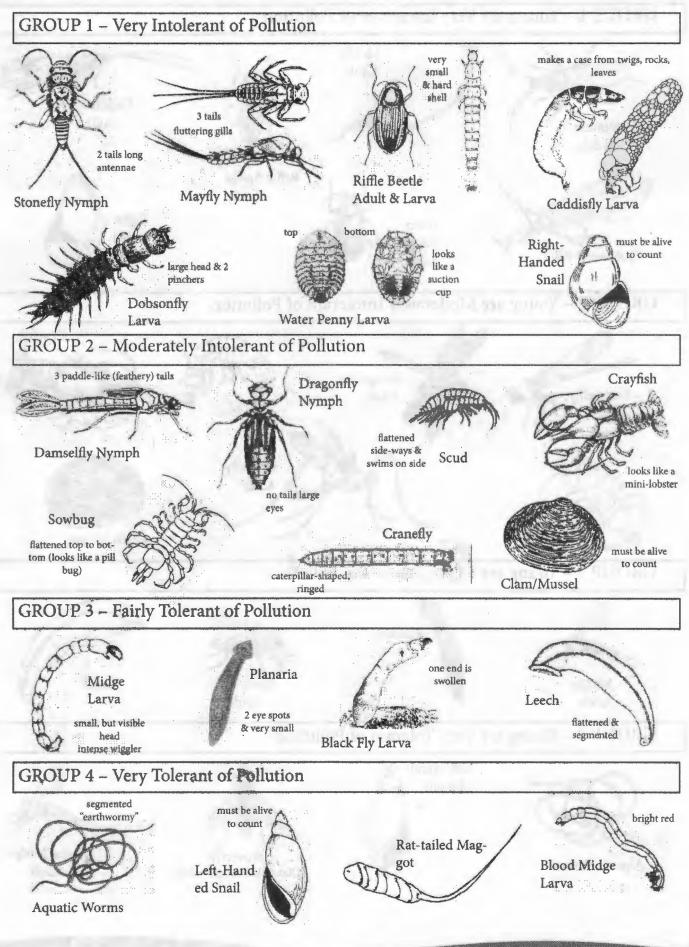
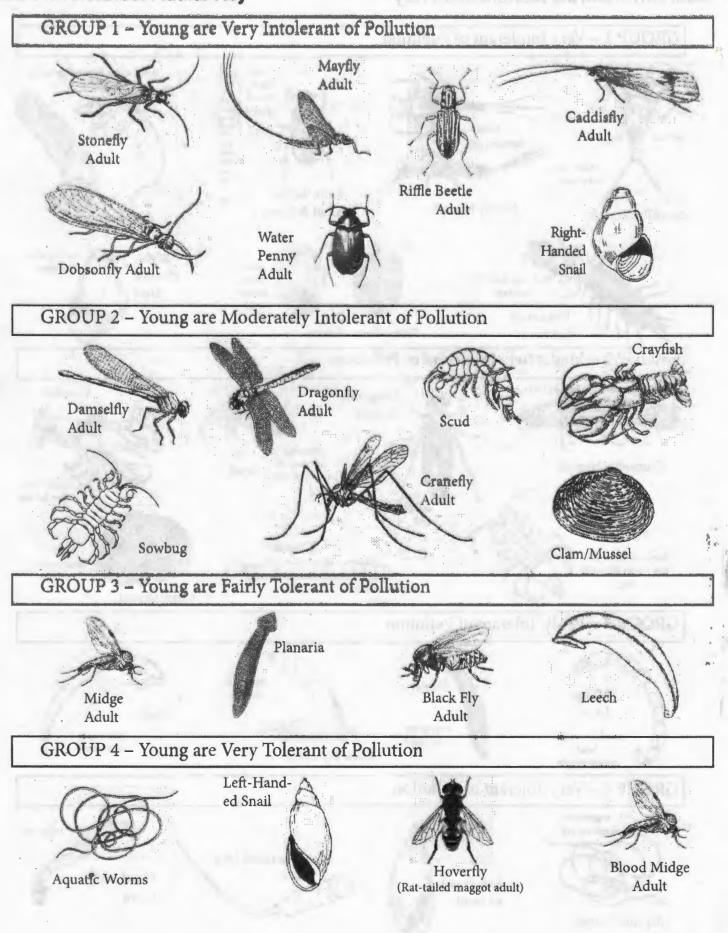
Macroinvertebrate Identification Key



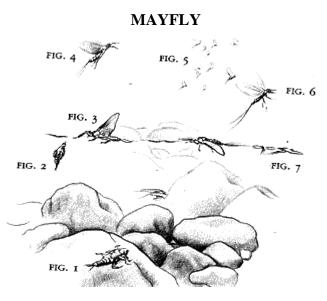
(77)

Macroinvertebrate Adults Key



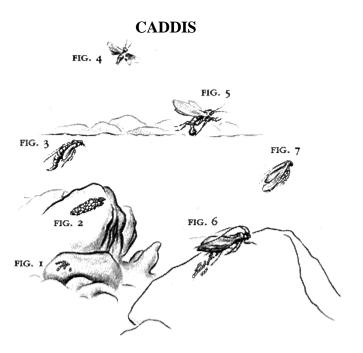
Mayfly & Caddis Life Cycle

Looking at the caddis and mayfly life cycle in detail.



After spending most of its life under water as a nymph (**fig. 1**), a mayfly swims to the surface to hatch. During the swim-up (emerger) stage (**fig.2**). The emerger hatches into a dun (**fig.3**) which, while on the surface is a primary food source for trout. The dun then flies off the water (**fig.4**) to nearby foliage where it undergoes another transformation. When it becomes a spinner (**fig.5**), it will join others and be seen swarming over the surface in mating flights. Some spinner will drop their fertilized eggs, others will touch down on the surface to deposit them (**fig.6**).

Finally the act of renewing the species complete, the spinners fall to the surface (**fig.7**) to be eaten in great numbers by the trout.



Like the mayfly, the caddis fly begins its life in an egg (**fig.1**). After the egg stage the caddis spends most of its life as a larva, encased in a protective shell it manufactures either of small sticks or pieces of gravel (**fig.2**).

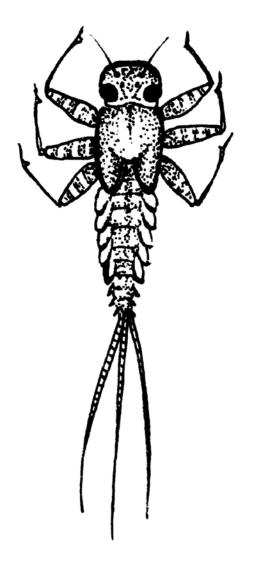
When its ready to hatch the caddis swims up as a pupa (**fig.3**) and rides on the flow where it may be taken by a trout if it doesn't escape to a nearby shore as an adult (**fig.4**).

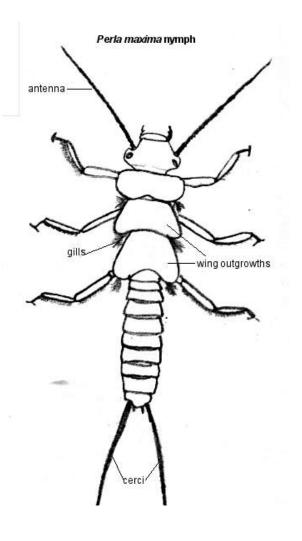
When adults have mated, some deposit their eggs on the surface of the river (**fig.5**), while others swim to the bottom (**fig.6**), deposit them and then swim up again (**fig.7**).

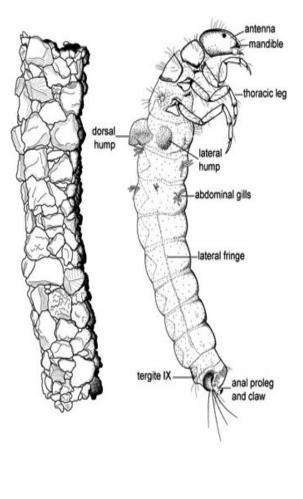
It is these diving ovipositors that anglers frequently confuse with hatching caddis, because both are usually spotted after swimming up from the bottom.

http://hipwader.com/2003/mayfly-caddis-life-cycle

INSECT LARVAE







CADDISFLY

MAYFLY

STONEFLY