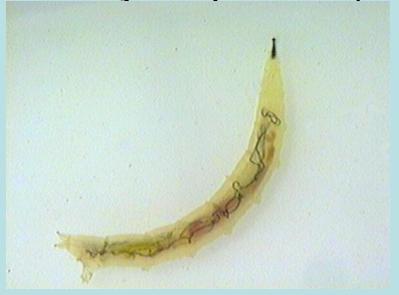
Macroinvertebrates!



True flies! (order Diptera)

 Often headless or "headreduced"

 No "true" legs ("prolegs" may be present)





Dragonflies! (order Odonata)

- Large, wide head
- Lower lip extends like a "scoop"
- Large body size; wing buds; reduced tails





Caddisflies! (order Trichoptera)

Generally build "houses" of stones, sticks,

mud

No tails



Snails! (Genus Juga)

· Shells ...

Mayflies! (order Ephemeroptera)

- Usually have three tails
- Abdominal gills

Indistinct chewing mouthparts





Stoneflies! (order Plecoptera)

Legs end in two claws

Usually two tails

Mouthparts not "well-





Why Study MI's?

 Aquatic macroinvertebrates play an important role in aquatic ecosystems

Recyclers / decomposers

 Different anatomy -> different feeding styles

Different feeding styles -> \
different ecological function

Aquatic MI's are Indicators

- "Inidicator species" are organisms that tell us specific information about their environment through their presence or absence
- Aquatic MI's are very useful indicators of water quality – in particular, temperature, pH, DO, and chemical pollutants

