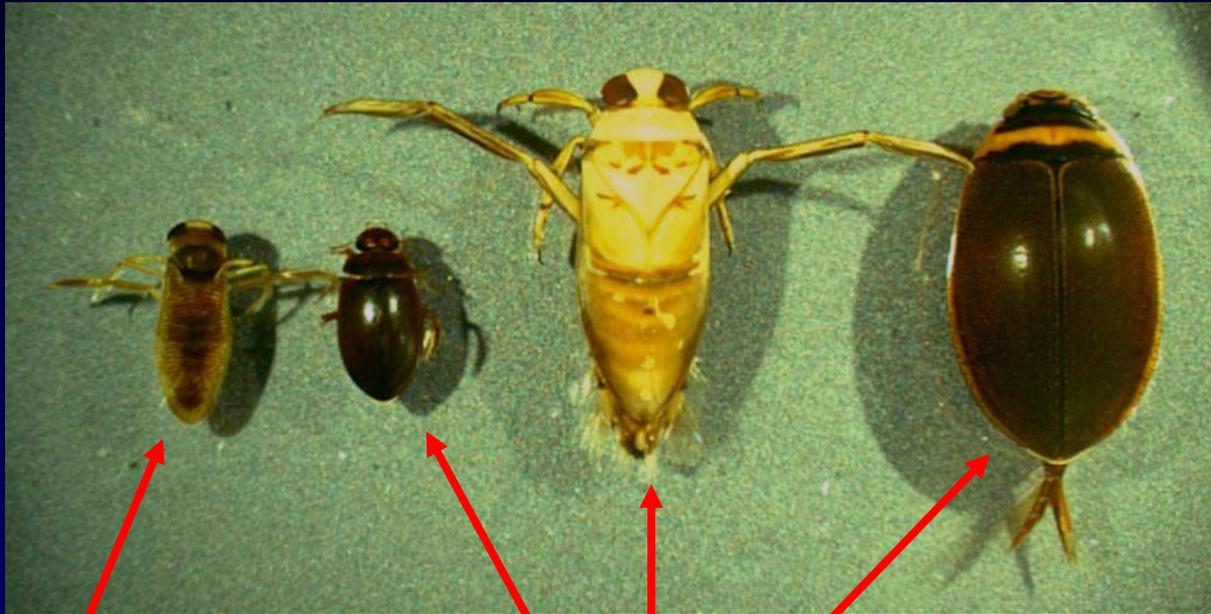


# Beetles and Bugs

## Coleoptera and Hemiptera



# Corixidae Proportion Metric



Corixid

Non-Corixid Beetles and Bugs

For the metric scoring you only need to distinguish corixids from all other non-corixids in each sample

# Corixidae

Dorsal View



Ventral View



# Adult vs. Immature



Adult: Wing pads  
cover abdomen

Immature: Abdomen  
exposed

# Distinguishing Corixidae from other bugs

The bug most commonly confused with corixids are the backswimmers (Notonectidae)



Four primary distinguishing features are: Mouthparts, Legs, Wing Shape and Pattern, and Eyes

# Corixidae vs Notonectidae

## Mouthparts



Wide beak for rasping



Sharp beak for piercing

Note: all other aquatic bugs  
have piercing mouthparts

# Corixidae

vs

# Notonectidae

## Legs



Front legs

Swimming leg



Corixidae also have swimming legs, but the front legs are proportionately much shorter.

Notonectid swimming legs are elongated for faster swimming while hunting. Their front legs are long and thin.

# Corixidae vs Notonectidae

## Wing Shape and Pattern



Wing Pads Brown or  
Patterned, lying flat on  
abdomen



Wing Pads Whitish/Tan or  
Semi-transparent, tucked  
tightly around abdomen

Corixidae

vs

Notonectidae

Eye Size



Eye

The eyes of the Notonectide take up a proportionately greater area of the head, and are proportionately wider, than those of Corixidae.

# Locate all Beetles and Bugs



Many of the beetles and bugs are very small and are often missed when sorting your sample

Beetle larvae

vs

Dragonfly and  
Damselfly larvae

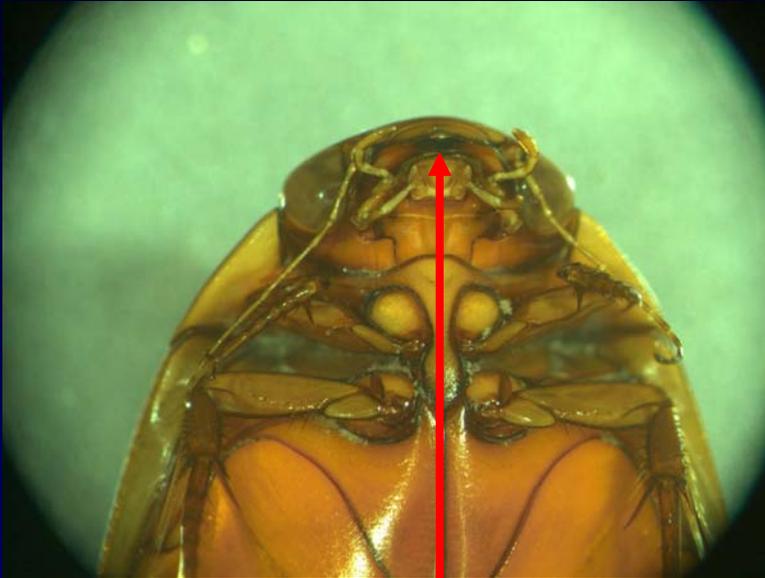


# Beetles

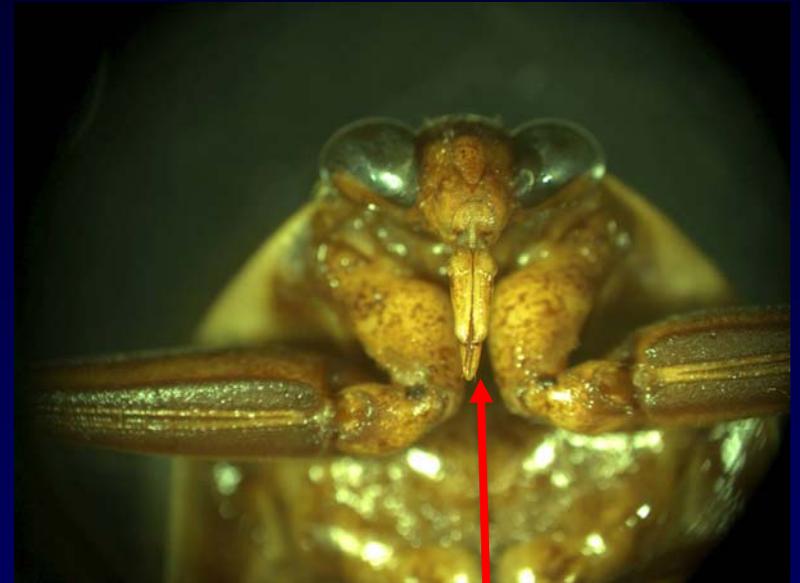
vs.

# Bugs

(non-corixids)



Chewing Mouthparts



Piercing Mouthparts

Beetles

vs.

Bugs



Wings are hard, shiny



Wings are leathery, dull