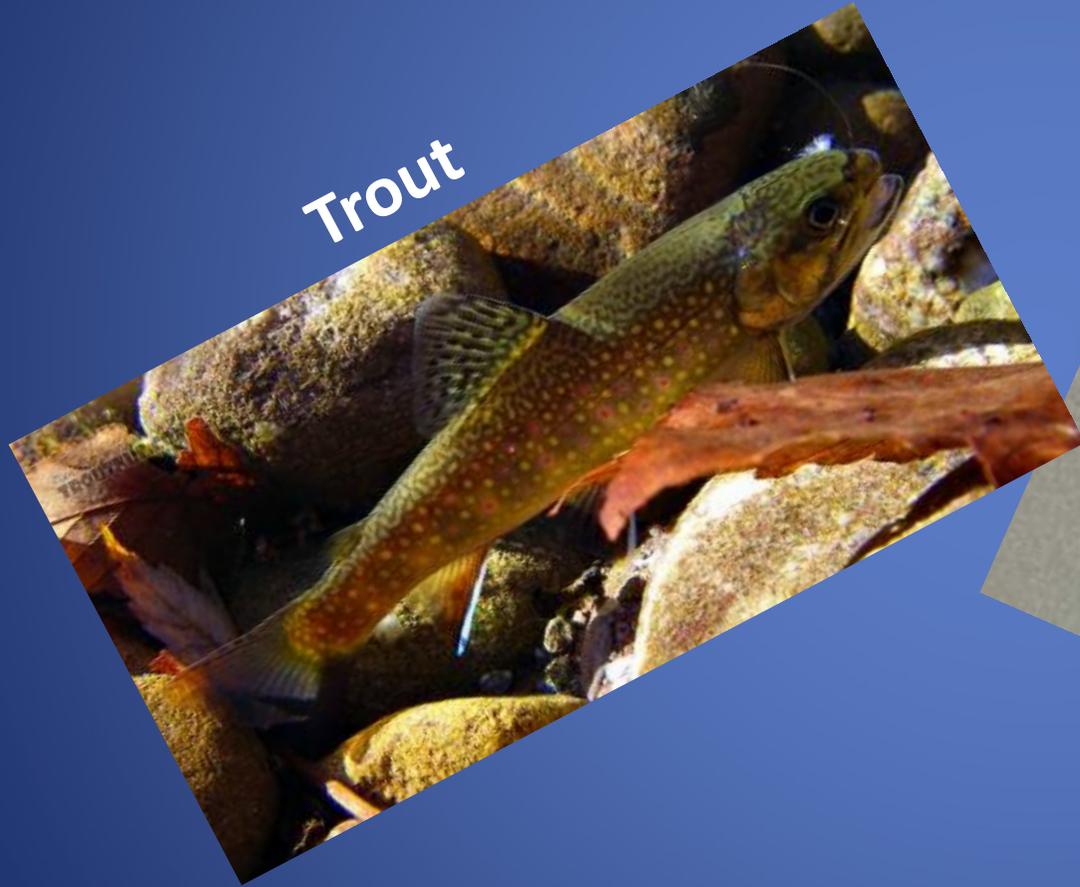


There and Back Again: A Fish's Tale



Some Animals Can Live Where Others Can't

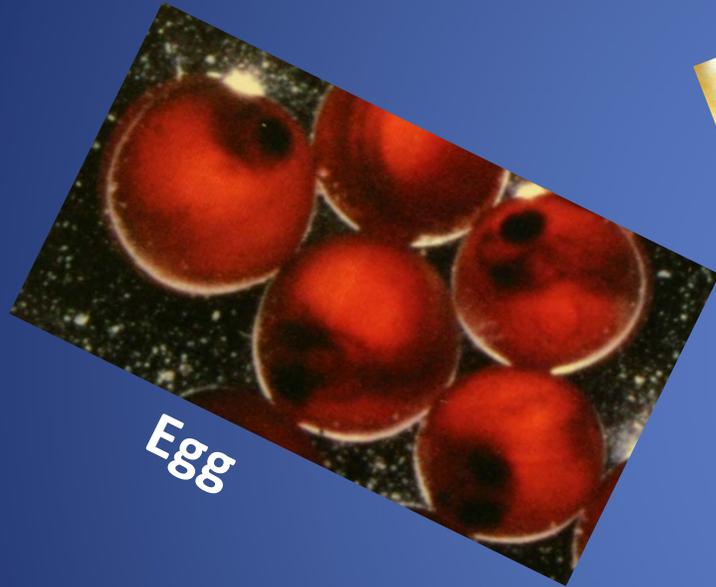


Trout

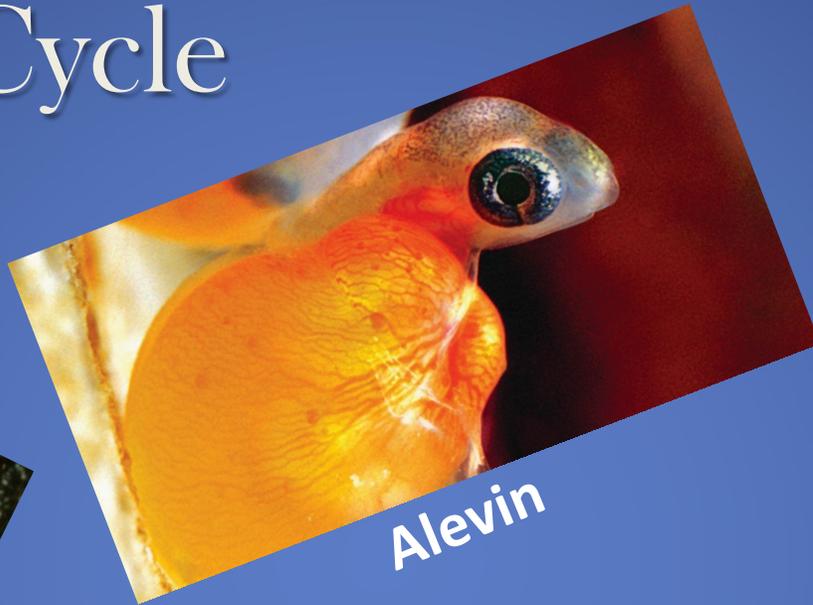


Fur Seal

Salmon Life Cycle



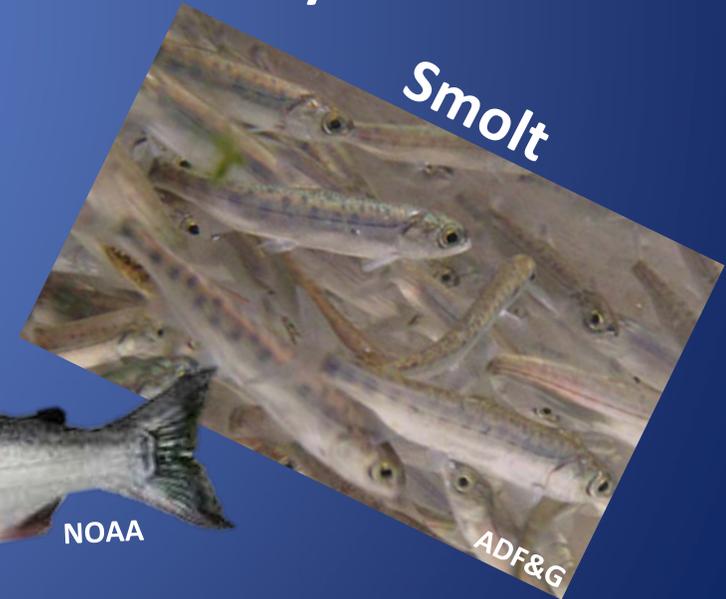
Egg



Alevin



Fry

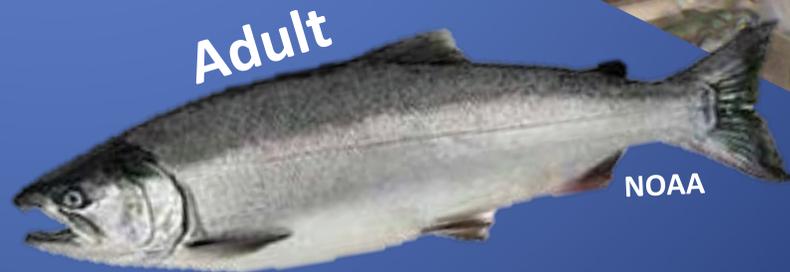


Smolt



ADF&G

Spawning Adult



Adult

NOAA

ADF&G

In freshwater, salmon need...

- Cool, clean water
- Gravel bottoms to make their redds
- Riffles to mix in oxygen
- Hiding places (logs, roots, banks)
- Shade under trees
- Plenty of food (for young)



Stream Macroinvertebrates



Aquatic Mite



Aquatic Worm



Black fly



Caddisfly



Caddisfly



Clam



Crane fly



Planarian



Mayfly



Midge



Scud



Pouch Snail

USEPA



Gilled Snail

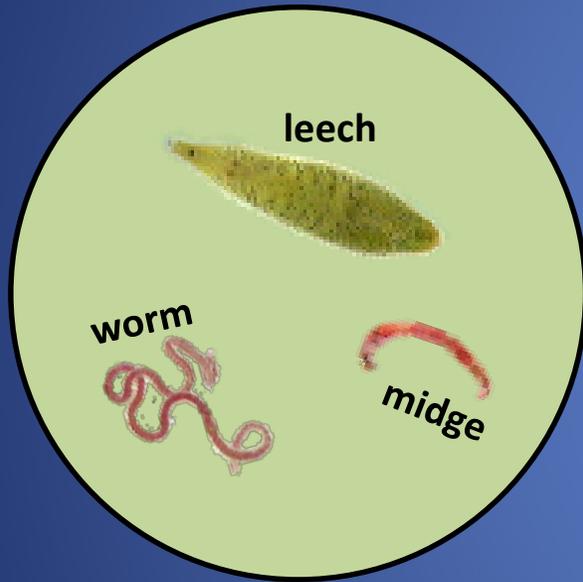


Stonefly

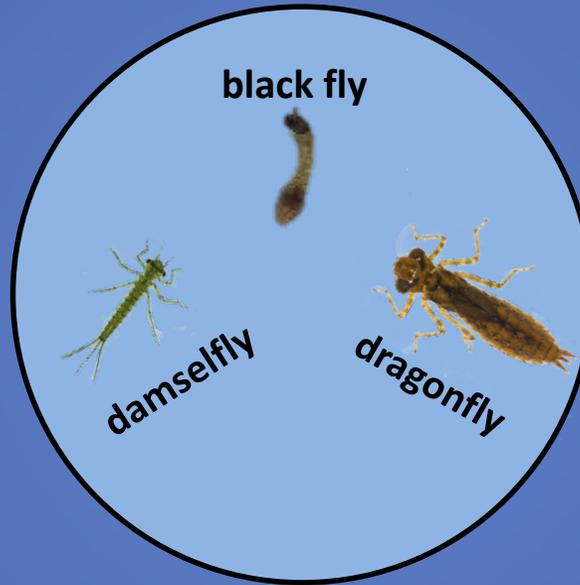
Stage 1 - Downstream Migration



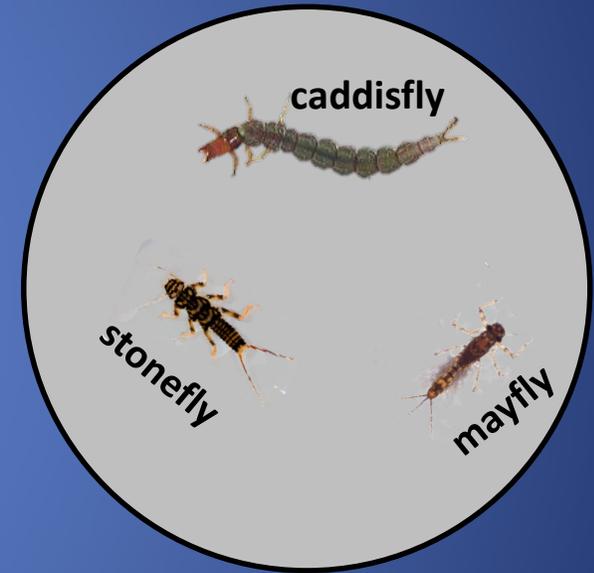
Not all macroinvertebrates are equal!



+1 point



+2 points



+3 points



Stage 2 - Smolting in the Estuary

Stage 3 - Ocean Survival



Stage 4 - Returning Home



Stage 5 - Spawning



Spawning Scenario

1



Spawning Scenario

2



NPS

Spawning Scenario

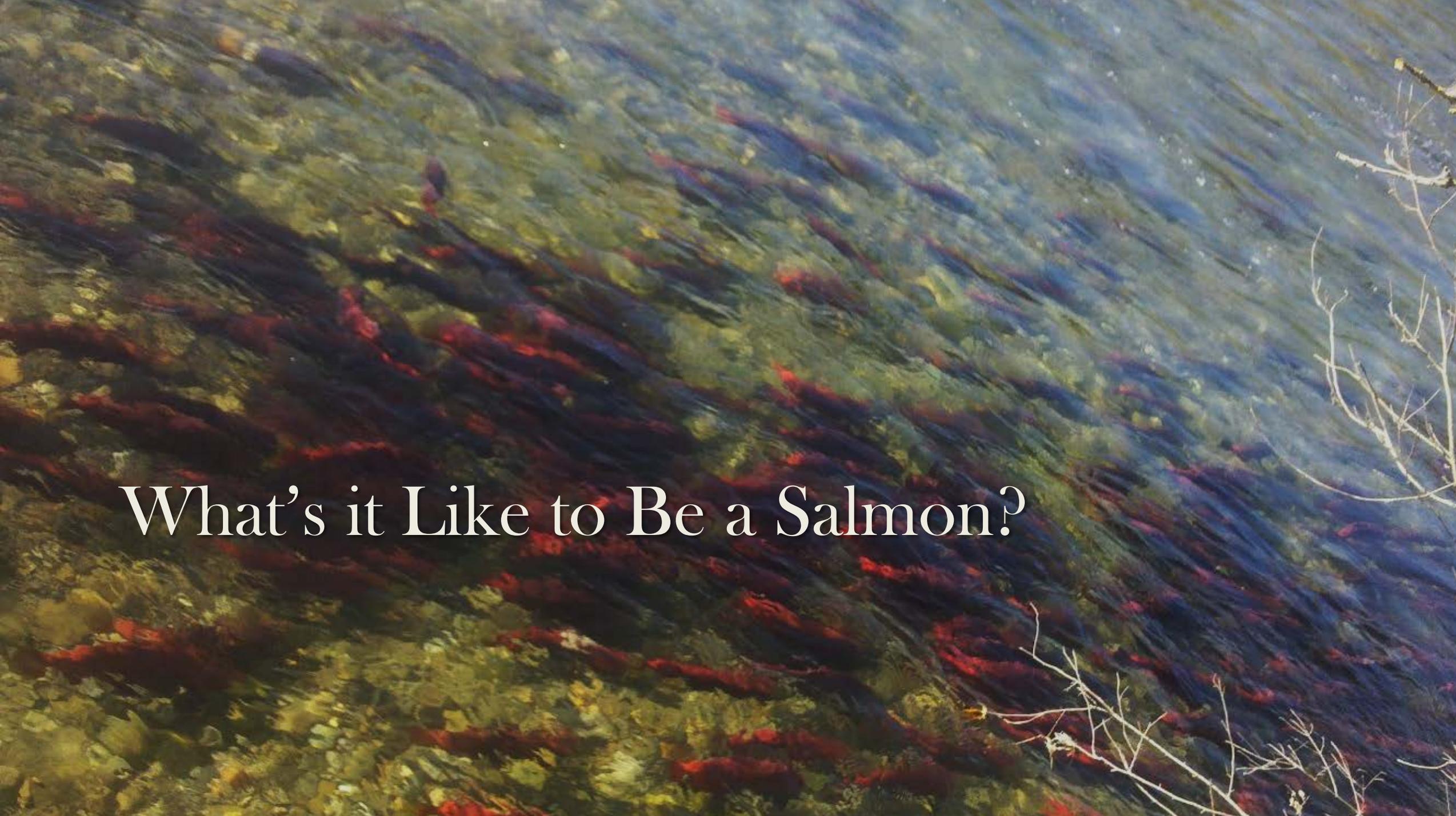
3



US DOT

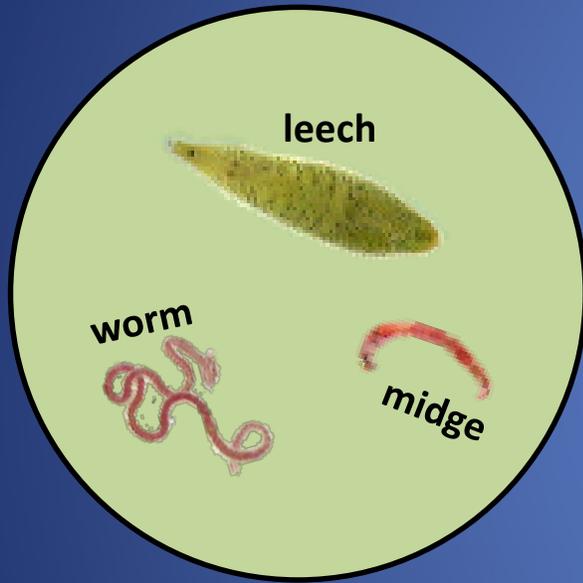
Stream restoration at work!



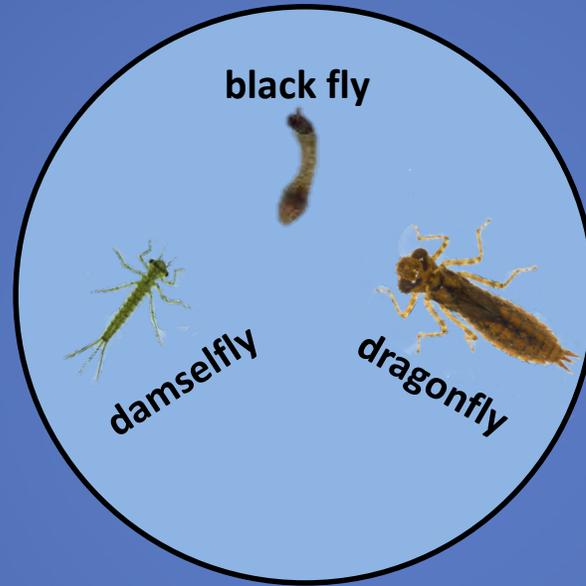
A large school of salmon swimming in clear water over a rocky riverbed. The water is shallow and clear, revealing the dark, wet rocks and some green algae. The salmon are densely packed, moving in a coordinated fashion. The text "What's it Like to Be a Salmon?" is overlaid in white serif font on the lower left side of the image.

What's it Like to Be a Salmon?

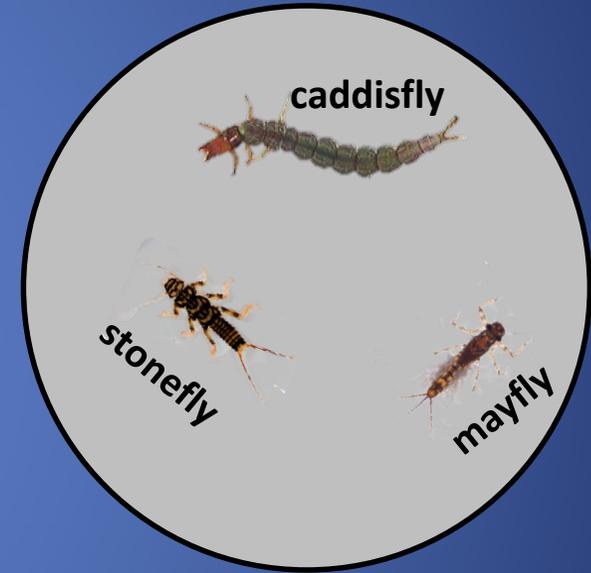
Remember the macroinvertebrates?



Tolerant



Sensitive



Very Sensitive