



The Macroinvertebrate World

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Research Question

How does the velocity affect macroinvertebrates in still pool areas versus fast pool areas?

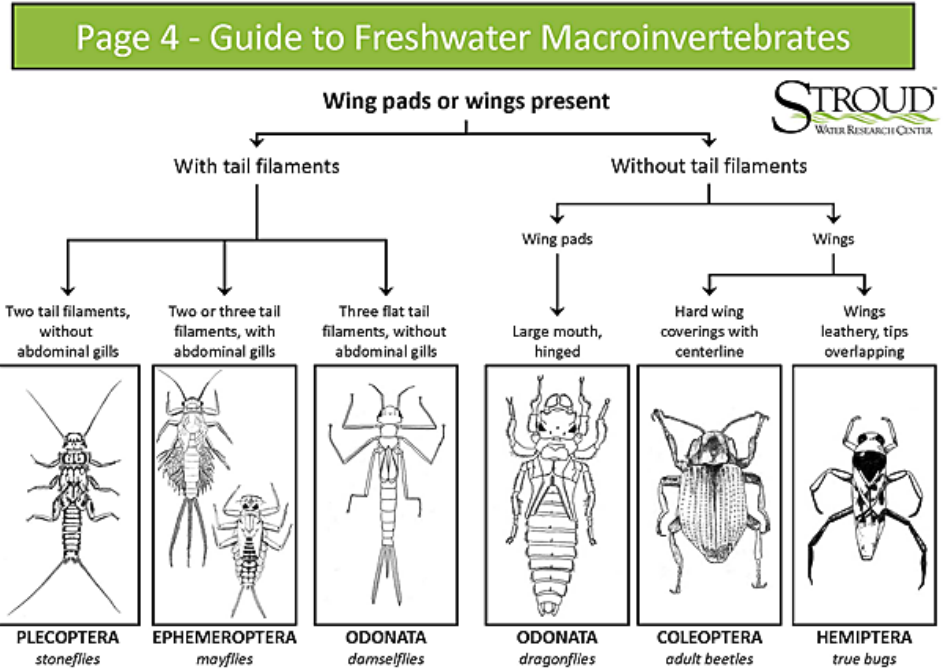
Hypothesis

H_0 - There will be no difference between fast and slow currents in macroinvertebrate composition.

H_A - There will be no difference between fast and slow currents in macroinvertebrates.

Background for topic

- What is a macroinvertebrate:
Organisms without backbones
- Studied macroinvertebrates in riparian areas
- Identification based on wings, tail filaments, gills, legs, & shell



Methods

Materials

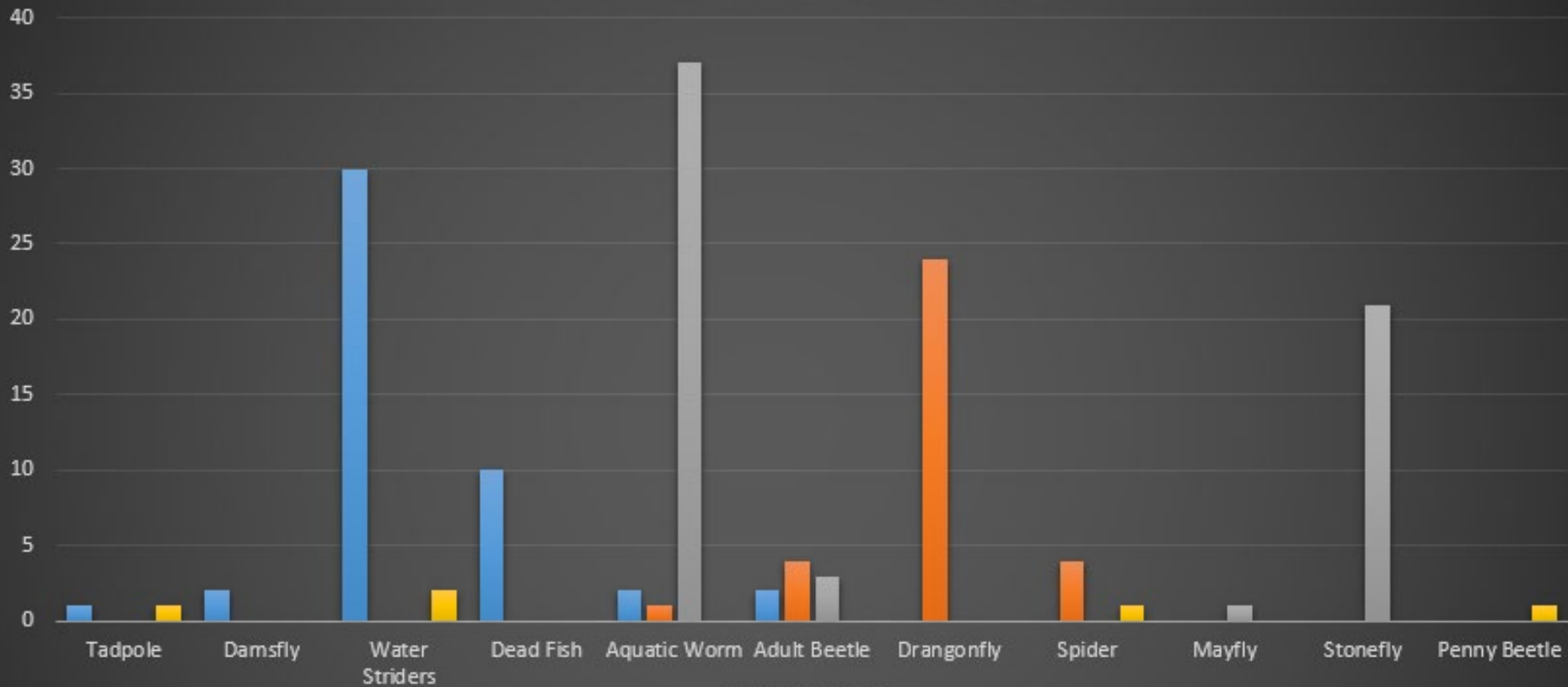
- Dip nets
- Species identification keys
- Thermometer
- Magnifying glass
- Tape measure
- Orange
- Walking stick

Procedure

1. Go to each site
2. Take physical measurements (velocity, pebble size, depth, stream width)
3. Kick rocks for 10 seconds
4. Collect macroinvertebrates
5. Identify macroinvertebrates
6. Record & Analyze data

MacroInvertebrates

NUMBER OF INDIVIDUALS

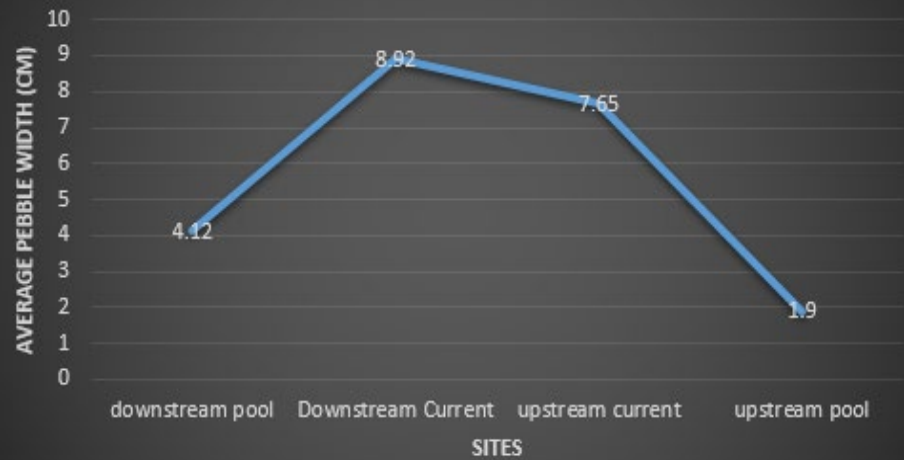


SPECIES

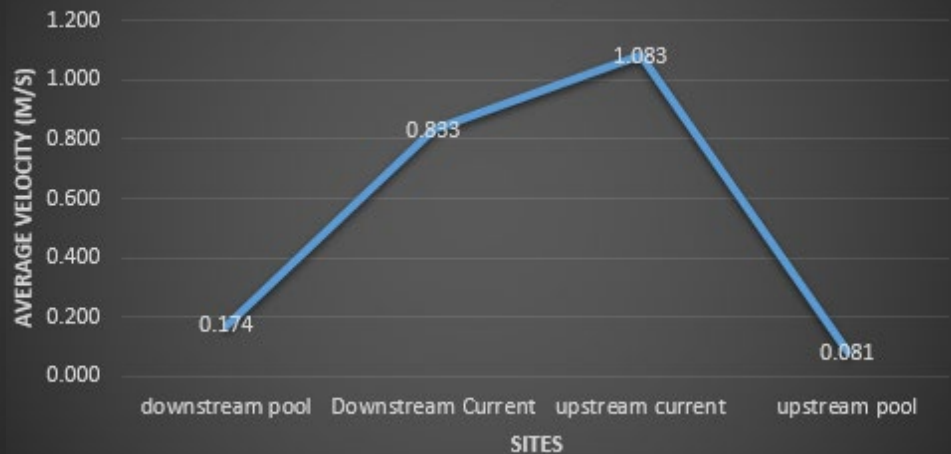
■ Downstream still pool
■ Upstream fast current

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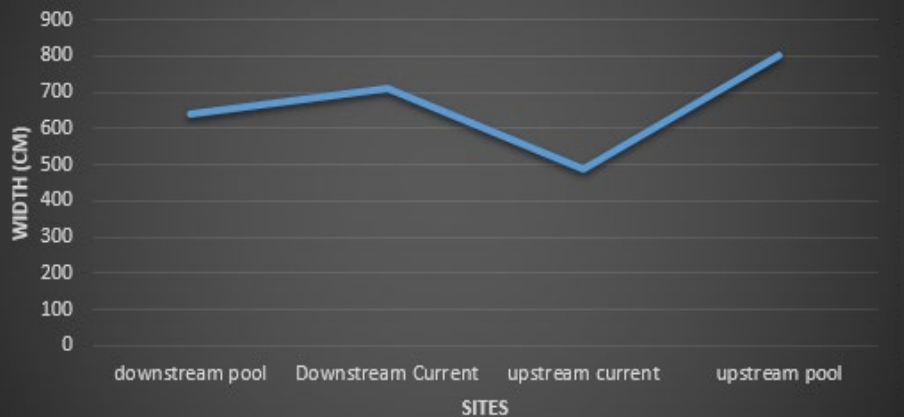
Pebble Width



Velocity



Stream Width



Depth



Conclusion

To conclude our project we found more macroinvertebrates near the river bank on the surface of the water. This means the velocity of the water flow allows the macroinvertebrates to live there.

