

Term 3, Lesson 6

Data Comparison & Interpretation

Learning Objectives:

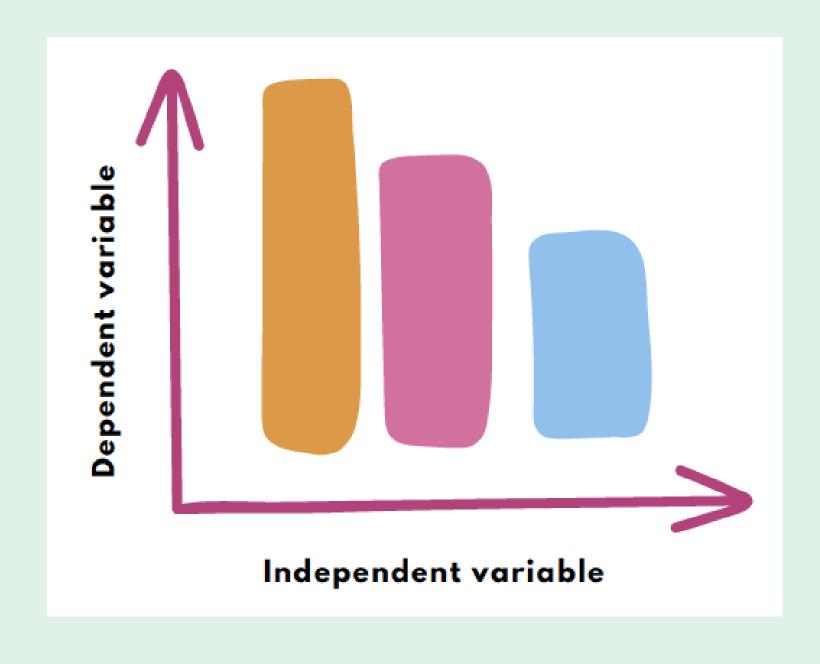
- 1. Compare data collected from water quality and water bug sampling;
- 2. Graph dependent and independent variables and interpret findings in relation to wetland health;
- 3. Interpret results of eDNA sampling (if sampled).



Independent & Dependent Variables

Independent variable - a variable that is unchanged by other variables being measured. Belongs on the x-axis.

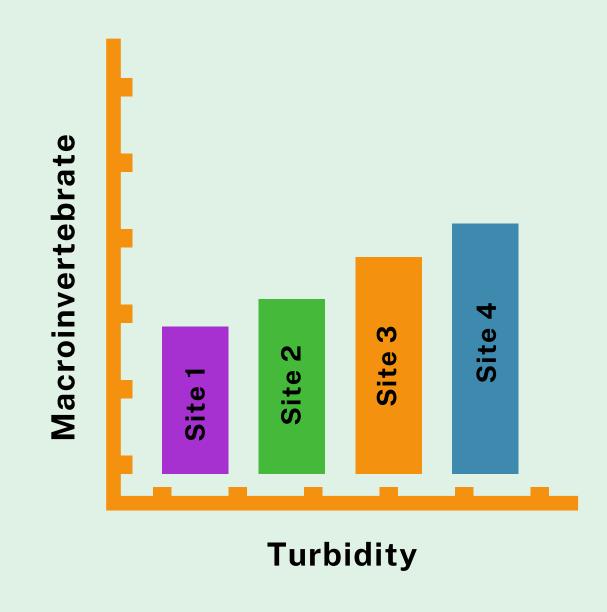
Dependent variable - the variable that changes as a result of the independent variable. Belongs on the y-axis.



Classroom Activities

Activity 1 -

- Identify the independent and dependent variables from the water quality testing and macroinvertebrate survey.
- Graph how the abundance of macroinvertebrates is impacted by water quality parameters.
- Discuss as a class how water quality impacts macroinvertebrate populations.



Classroom Activities

Activity 2 -

Interpret the results of the eDNA sample.

 Compare your findings with literature on species distributions.



 Identify the species you expected to detect in the wetland and any which were unexpected.

Classroom Activities

Activity 3 - Class Discussion

Q: What do the SIGNAL scores tell us about the health of the wetland?

Q: What do the water quality results tell us about the health of our wetland?

Q: How might the results impact freshwater turtles at the wetland?

