

Species Interactions Ecology Worksheet  
Labs #5 & 6

Answer/address all of the following questions on your own paper. **Include all data tables.** Answers should include any and all supporting material (graphs, spreadsheets, and text).

1. a. State a hypothesis to compare ant abundance at the different habitats.  
b. State a hypothesis to compare ant abundance with different baits types.
  
2. a. Calculate the mean time to discovery for all three habitats and bait types.  
b. Present these results graphically.  
c. Choose one of your above hypotheses and carry out the appropriate statistical test to test the hypothesis.  
d. Discuss your findings for the ant feeding and activity lab.
  
3. a. State a hypothesis to compare the number prey captured (# of beans) at the different habitat types.  
b. State a hypothesis to compare the quality of prey captured (highest amount of energy) with different beak types.
  
4. a. Calculate the means and standard deviations for all three beak types in both habitat types (combine data for both experienced and inexperienced predators together).  
b. Present the data graphically.  
b. Choose one of your above hypotheses and carry out the appropriate statistical test to test the hypothesis.  
c. Discuss your findings for the optimal foraging by birds experiment.
  
5. Pick one of the other 3 experiments from lab 5 & 6 that we did not do in class, create a hypothesis for this experiment.