

Algae-Brine Shrimp Ecosystem: Hypothesis, Predictions, and Experiment

Group members:

_____The dynamics of an ecosystem are shaped by the size of the producer and consumer populations through either top-down or bottom-up effects that can have a number of effects on populations, communities, and the abiotic environment. Using the basic procedure described in "Food Chain Dynamics In A Simple Ecosystem" design an experiment to study trophic dynamics in this system. **In two or three sentences explain the question you are going to investigate.**

Our hypothesis is that if we manipulate:

then we should expect to observe:

because:

For our experiment, our control will be:

and our treatment manipulation(s) will be:

The following conditions will be held constant across all treatment jars:

We will collect the following data and analyze it by:

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Algae vol.: _____

Algae conc.: _____

Brine Shrimp: _____

Sea water vol.: _____

#

Algae vol.: _____

Algae conc.: _____

Brine Shrimp: _____

Sea water vol.: _____

#

Algae vol.: _____

Algae conc.: _____

Brine Shrimp: _____

Sea water vol.: _____

#

Algae vol.: _____

Algae conc.: _____

Brine Shrimp: _____

Sea water vol.: _____

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Algae vol.: _____

Algae conc.: _____

Brine Shrimp: _____

Sea water vol.: _____

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Algae vol.: _____

Algae conc.: _____

Brine Shrimp: _____

Sea water vol.: _____