

Virtual Lab: Population Biology

Week 14 Lab Worksheet

How to get there: (http://glencoe.mcgraw-hill.com/sites/dl/free/0078757134/383928/BL_04.html) click on the link to [Virtual Lab - Population Biology](#).

Instructions: This lab has instructions on the left hand side. Enter your data in the tables below and then when done answer the questions..

Data Table				
	<i>P. aurelia</i> grown alone, cells/mL	<i>P. caudatum</i> grown alone, cells/mL	<i>P. aurelia</i> grown in mixed culture, cells/mL	<i>P. caudatum</i> grown in mixed culture, cells/mL
Day 0	2	2	2	2
Day 2	10	10	12	8
Day 4	30	54	20	32
Day 6	52	88	18	64
Day 8	58	96	12	78
Day 10	60	96	10	92
Day 12	58	96	6	96
Day 14	58	100	0	96
Day 16	60	98	0	96

Journal
1. What are the objectives for this experiment? (you can summarize)
2. Make a hypothesis about how you think the two species of <i>Paramecium</i> will grow alone and how they will grow when they are grown together. I think they both will grow more rapidly than together. Together they will overload the carrying capacity.
3. Explain how you tested your hypothesis. I ran three samples, each separate and then together, and test the growth rate every two days.
4. On what day did the <i>Paramecium caudatum</i> population reach the carrying capacity of the environment when it was grown alone? How do you know?

Population Biology Lab Answers

Patrick Vollmar



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