

Populations Lab Report

Instructions: The Virtual Populations Lab is on the lesson assessment page. Gather data to evaluate Sebastian's Snorkel Spot's claim that a new factory is polluting the coral reef. Follow the instructions as you move through the lab and record your data and observations in the lab report.

Title: sebastian snorkel spot

Objective(s): to see if the the run off and pollution from the new factory is is causing the reef and fish to die.

Hypothesis: if the pollution levels will keep increasing ,then the health of the reef will decrease

Variables: independent variable- additional pollution and runoff from the factory.
dependent variable-the health of the reef measured by water clarity, dissolved oxygen, live coral coverage, and stoplight parrotfish population.

Procedure

During the research phase, you found that the factory is not using nutrient-removal treatment on the water it releases. Excess nutrients in the water encourage algae growth, which can smother coral. To monitor the water quality and health of the coral reef, you will collect data on five factors: water clarity, dissolved oxygen levels, percentage of live coral coverage, number of juvenile parrot fish observed, and number of mature parrotfish observed.

Data:

Record your data from the virtual lab in the data table.

Week	Water Clarity (m)	Dissolved Oxygen Level (mg/L)	Percentage of Live Coral Coverage (%)	Number of Juvenile Parrotfish	Number of Mature Parrotfish
0	6 meters	14	35%	8	12
1	4 meters	12	30%	7	12
2	3 meters	10	25%	7	11
3	3 meters	9	25%	5	11
4	2 meters	9	20%	4	8

Biology Population Lab

Deborah T. Goldberg



Biology Population Lab:

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979 INTRODUCTION to ORGANISMAL & POPULATION BIOLOGY LAB MANUAL (Fall 2024) , 2024-10 AP Biology Deborah T. Goldberg, 2020-03-03 Barron's AP Biology With Two Practice Tests is revised to reflect all upcoming changes to the AP Biology course and the May 2020 exam You'll get the in depth content review and practice tests you need to fully prepare for the exam This edition features Two full length practice exams in the book that follow the content and style of the revised AP Biology exam with detailed answer explanations for all questions A fully revised introduction that covers the new exam format including the exam sections the question types the number of questions per section and the amount of time allotted per section Helpful test taking tips and strategies throughout the book plus icons that designate sections with particularly helpful background information to know 19 comprehensive review chapters that cover all of the major topic areas that will be tested on the exam including the Cell Cycle Photosynthesis Heredity and much more End of chapter practice questions that reinforce the concepts reviewed in each chapter Appendices with key measurements that you should be familiar with as well as a glossary of key terms and definitions *Stability in Model Populations* Laurence D. Mueller, Amitabh Joshi, 2020-03-31 Throughout the twentieth century biologists investigated the mechanisms that stabilize biological populations populations which if unchecked by such agencies as competition and predation should grow geometrically How is order in nature maintained in the face of the seemingly disorderly struggle for existence In this book Laurence Mueller and Amitabh Joshi examine current theories of population stability and show how recent laboratory research on model populations particularly blowflies *Tribolium* and *Drosophila* contributes to our understanding of population dynamics and the evolution of stability The authors review the general theory of population stability and critically analyze techniques for inferring whether a given population is in balance or not They then show how rigorous empirical research can reveal both the proximal causes of stability how populations are regulated and maintained at an equilibrium including the relative roles of biotic and abiotic factors and its ultimate mostly evolutionary causes In the process they describe experimental studies on model systems that address the effects of age structure inbreeding resource levels and population structure on the stability and persistence of populations The discussion incorporates the authors own findings on the evolution of population stability in *Drosophila* They go on to relate laboratory work to studies of animals in the wild and to develop a general framework for relating the life history and ecology of a species to its population dynamics This accessible finely written illustration of how carefully designed experiments can improve theory will have tremendous value for all ecologists and evolutionary biologists Directory of Federal Laboratory and Technology Resources , 1994 Describes the individual capabilities of each of 1 900 unique resources in the federal laboratory system and provides the name and phone number of each contact Includes government laboratories research centers testing facilities and special technology

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