

BIOL 1150 Ecology Lab 1

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Estimated time to complete this lab activity: 2 hours

You will need internet access the whole time, including the ability to stream videos.

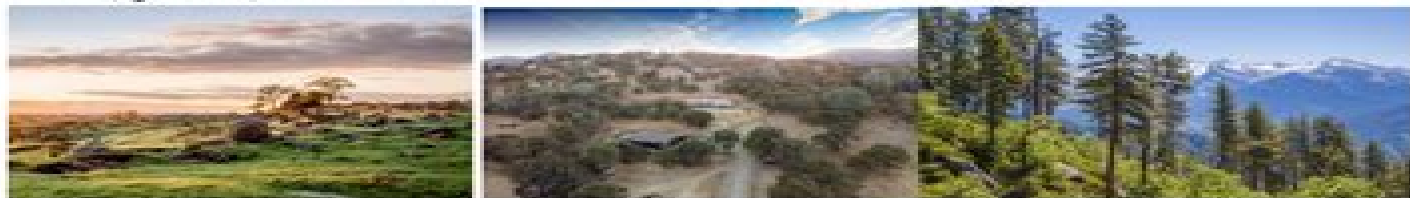
To turn in: save a .docx or .pdf copy of this file when you are done. Make sure you have answered questions 1, 2, 3, and 4, and completely filled out the data table.

This is the first of three lab activities on ecology. Over the next three weeks, you will examine the climate and vegetation of three biomes in California, use iNaturalist to compare animal communities in your three locations, and present your findings to the rest of the class.

In this first activity we consider the biomes of California, select three biomes and locations to investigate, and compare climate and vegetation in those regions.

Why Biomes?

As you travel east from the San Joaquin Valley, you pass through several different **biomes (i.e., general habitat types with characteristic plants and animals)**. As you leave the cities and farms of the valley, you enter rolling grasslands with scattered oak trees. As you climb higher in elevation, you see chaparral (shrubland) and areas with denser forests of deciduous trees like oaks and madrone as well as conifers like pine and cedar. As you climb higher, the forest is dominated by fir trees and other conifers. Finally, at the highest elevations of the Sierra Nevada mountains, the trees become sparse and you enter the sub-alpine zone, with low-growing shrubs, grasses, and flowers.



What factors cause these different biomes? Review:

- Campbell Biology in Focus Chapter 40.1, OR [OpenStax Biology 3e Chapter 40.3](#).
- For California-specific information: [this video lecture](#) (30 minutes) by Dr. Matt Cover.

Question 1: At the global scale, what factors and processes explain the distribution of biomes?

On a global scale, temperature and precipitation can explain the distribution of biomes. Rain-shadow effects, Hadley cells, solar energy distribution, elevation, and vegetation help to define biomes all over the world.

Question 2: In California, what factors and processes explain the distribution of biomes?

Lab 59 Biomes Distribution Of Life Answers

Christian Drosten



Lab 59 Biomes Distribution Of Life Answers:

General Science Activity Book Brockway,1988-10 **Selected Water Resources Abstracts** ,1974 Biomes of Earth
Susan L. Woodward,2003-12-30 This handy one volume resource explores all of Earth s major biomes both natural and human created and their characteristic plants and animals *Life: The Science of Biology* David E. Sadava,H. Craig Heller,Gordon H. Orians,William K. Purves,David M. Hillis,2012-12-10 From its first edition Life has set the standard for experiment based introductory biology texts There is no stronger textbook for helping students understand not just what we know scientific facts but how we know it the experimental process that leads to their discovery The new edition of Life builds upon this tradition teaching fundamental concepts and showcasing significant research while responding to changes in biology education **Index to Scientific Reviews** ,1987 *Environment Abstracts Annual* ,1992 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters

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