

Chapter 3 - Section 1 -- *How Ecosystems Change*

A. Ecological succession-normal, gradual changes that occur in the types of species that live in an area

1. Primary succession begins in a place without soil.
 - a. Starts with pioneer species such as lichens, that can grow on rock
 - b. New soil forms as weather and erosion break down rock.
 - c. Decaying plants add organic material to new soil.



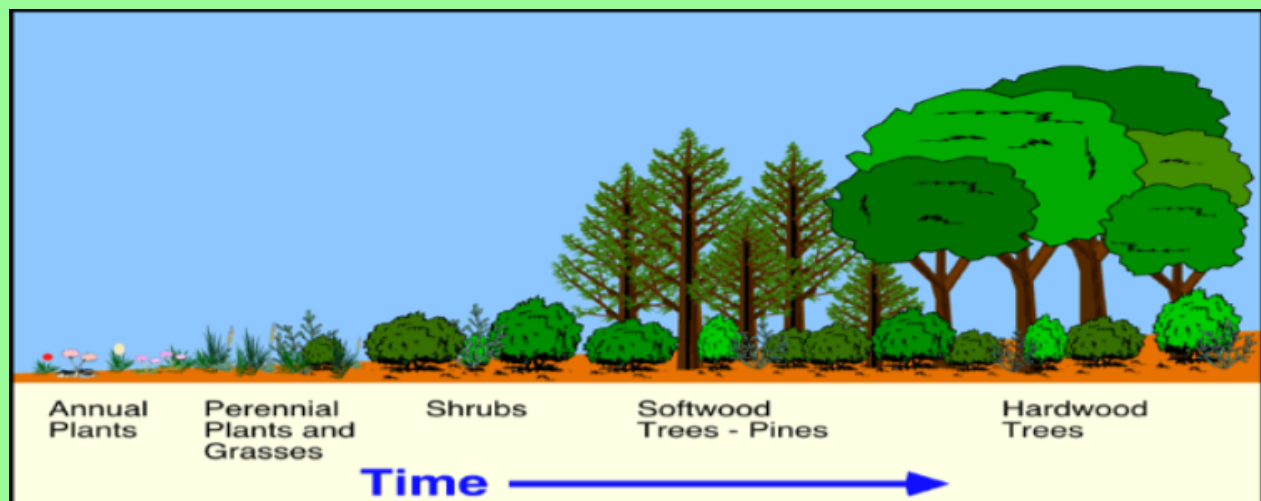
Lichens growing on the trunk of a tree are an example of a pioneer species.

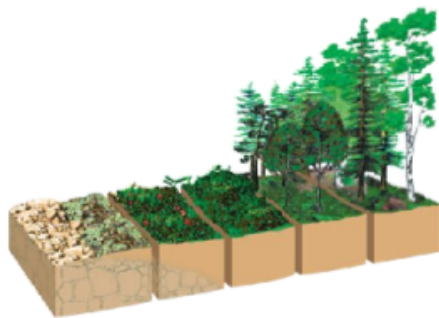
2. Secondary succession begins in a place that has soil and once had living things.

a. Occurs faster and has different pioneer species than primary succession

b. Example: after a fire or removal of buildings

B. Climax community-stable stage of ecological diversity and balance





primary succession

Pause Animation



secondary succession

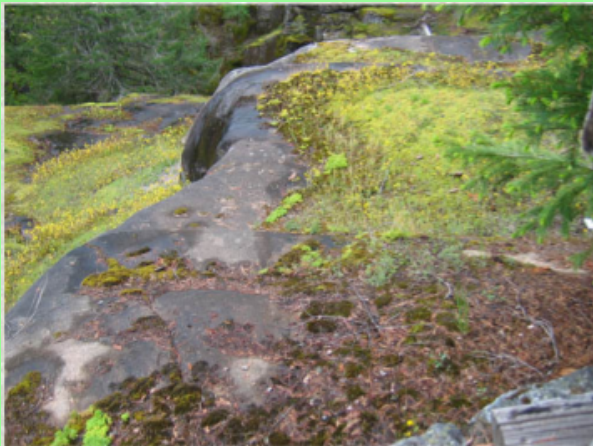
Reset Animation

Two types of ecological succession. **Click** the buttons for an example of each.

Name that succession!!!!!! Better yet, tell why.....



Secondary succession



Primary succession



Secondary succession

DISCUSSION QUESTION:

Why does primary succession take longer than secondary succession?

New soil has to form from rock and organic material.

Test your knowledge of section 1 with the self check quiz!

Life Science: Ecology, Book E
Section 1: How Ecosystems Change
Self-Check Quiz-Eng.

