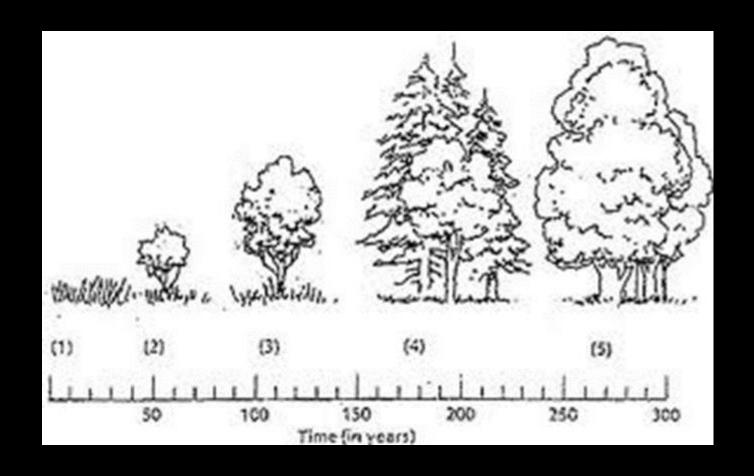


# Ecological Succession

- Ecosystems are constantly changing.
  - A forest hundreds of years old may have been a shallow lake a thousand years ago.
- Ecological succession is a gradual process of change and replacement of some or all of the species in a community.

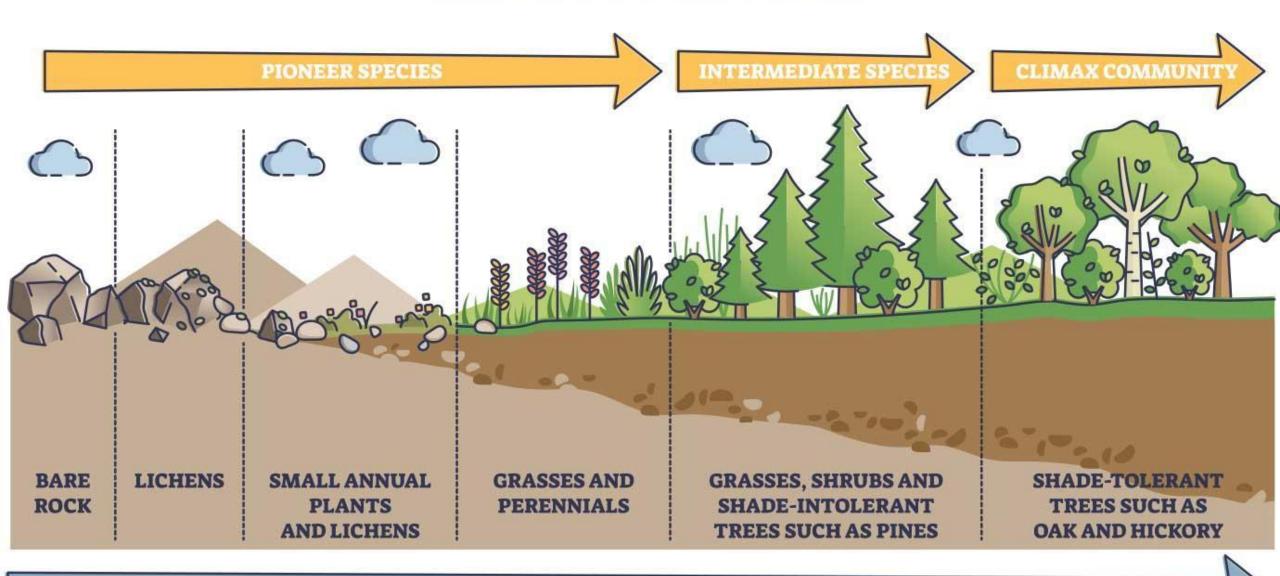


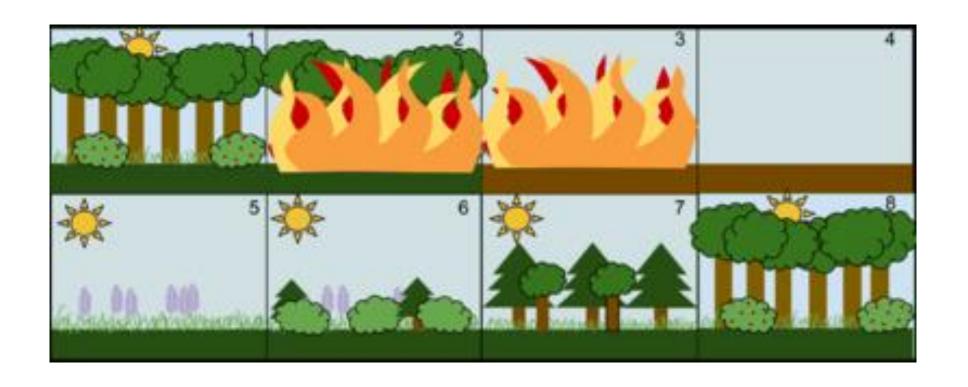


# Primary Succession

- It begins in an area that previously did not support life.
  - Primary succession can occur on new islands created by volcanic eruptions, in areas exposed when a glacier retreats, or any other surface that has not previously supported life.
- Pioneer Species
  - A species that colonizes an uninhabited area first.
  - Most likely bacteria and lichens

### **PRIMARY SUCCESSION**





## Secondary Succession

- Process by which one community replaces another community that has been partially or totally destroyed.
  - Destroyed by humans, animals, or natural process such as storms, floods, earthquakes, or volcanic eruptions.
- Primary succession is much slower than secondary succession. Why?

#### Mount Saint Helens 1983-2004

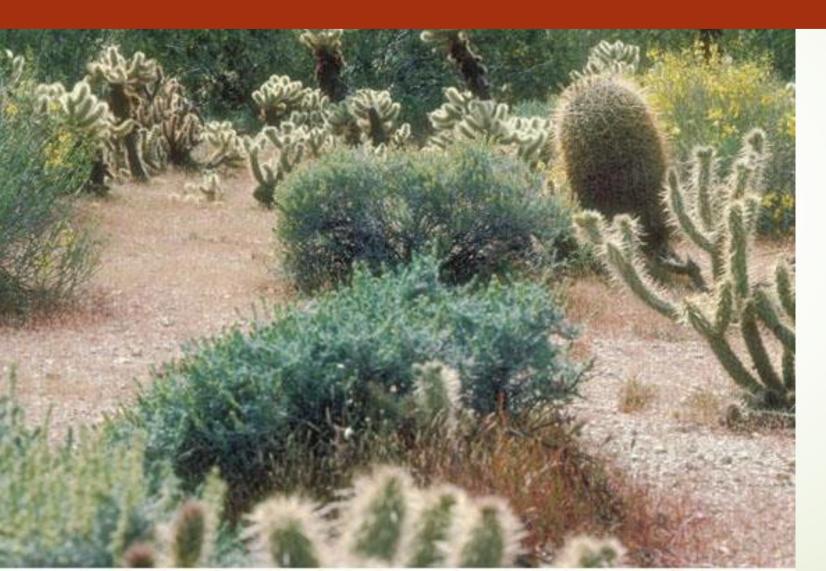








## Climax Community



- The climax community is the final and stable community
- Even though a climax community may change in small ways, this type of community may remain the same through time if it is not disturbed

