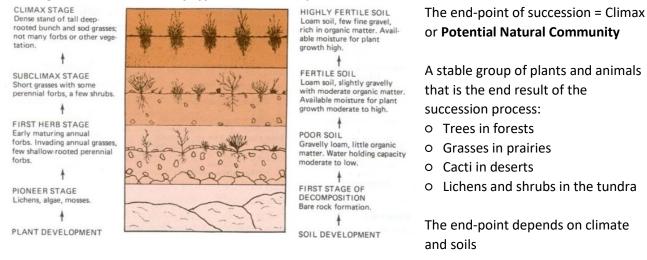
Rangeland Succession

Rangeland Principles (REM 151) - Note guide





Seral Stage: distinct community type within the sequence of succession.



Would the following events on rangeland lead to primary or secondary succession?

- A prescribed fire to reduce juniper trees: ______
- 2. An erosion event that removes all the soil and leaves bedrock: _____
- 3. Overgrazing by elk and cattle on canyon grasslands: ______
- 4. A restoration practice where the land managers sprayed cheatgrass with herbicide and reseeded with perennial grasses: ______

Basic Ideas of Succession:

- The simple plants die, adding more organic matter.
- The soil layer thickens, and grasses, wildflowers, and other plants begin to grow.
- These plants die, and they add more nutrients to the soil.
- Shrubs and trees can then survive.
- Insects, small birds, and mammals begin to inhabit.

Forces of Ecosystem Change

- Immigration and establishment of plants.
- Competition between plants.
- Site Modifications (add organic matter, change available moisture and nutrients)
- Stabilization (reduce yearly variation in kind and amount of plants and animals).

Important Concepts of Succession

- Ecological Sites
 - The product of all the environmental factors that influence the development of soils and vegetation, including disturbance
- Community Resilience
 - o The ability of a plant community to return to prior composition and structure after a disturbance
 - Community Resistance
 - o The plant community's ability to avoid being changed following disturbance

