

Vegetation perspective

- Correlation between animals and vegetation
- Animal – plant interactions
- Floristics vs. Vegetative structure

Correlation between animals and vegetation

- 'Life zone' concepts (C.H. Merriam 1898)
- A.S. Leopold's classification of animals and successional stages

Number of wildlife species associated with successional stages – mixed conifer

Animal – plant interactions

(niche partitioning)

Correlation between animals and vegetation

- FHD-BSD (MacArthur 1961)
 - Key concepts =

Animal – plant interactions

(interdependency)

Animal – plant interactions

(nutrient example)

Floristics and vegetative structure

- Hierarchical nature of habitat selection
- Johnson's 4 Orders of selection =
 - 1
 - 2
 - 3
 - 4

Floristics and vegetative structure

- Floristics is ?
- Biologists measure size & shape of plants (things like percent cover, dbh, height) because ? _____?

Floristics and vegetative structure

- Initial conclusions were that vegetative structure and configuration
 - size shape and distribution of vegetation in an area
 - Determines habitat occupancy by animals
- Why is plant community composition important? _____??

Floristics and vegetative structure

- Why do biologists focus on structure?

- What have we missed, by neglecting species composition?

Habitat Management is often manipulation of succession (examples)

- Timber harvest management to create desired stand structure
- Burning rangeland to manipulate grassland structure, productivity, or composition
- Tilling or seeding to retard or enhance desired species growth
- Grazing at specific stocking rates, frequencies, or durations to achieve a desired habitat goal

Vegetation perspective - Summary

- Succession continued
 - 'Individualistic' models
 - non-equilibrium
- Correlation between animals and vegetation
 - Animals and successional stage
 - FHD-BSD
- Animal – plant interactions
 - Complex interactions
- Floristics vs. structure
 - Hierarchical nature of habitat selection
 - Relation to structure easier than ID all those plants
- Habitat management is often manipulating succession