

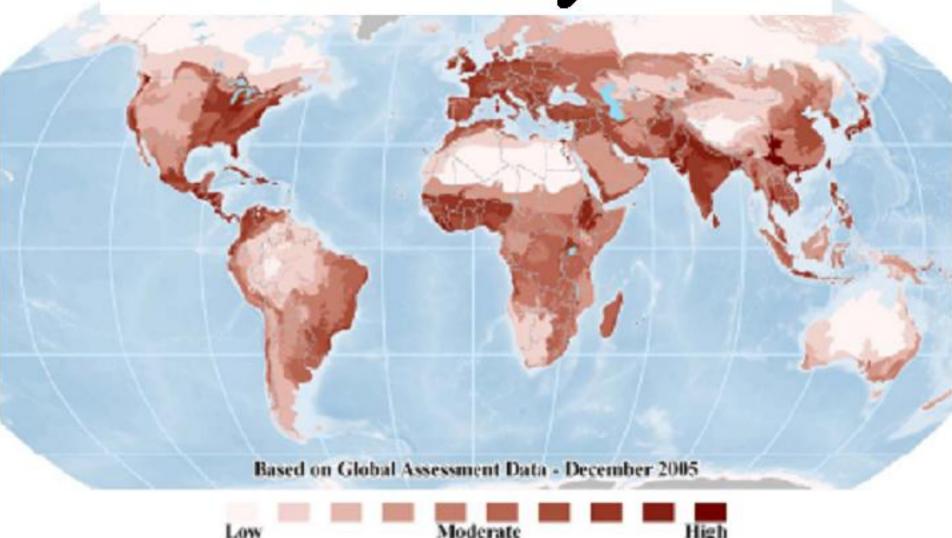




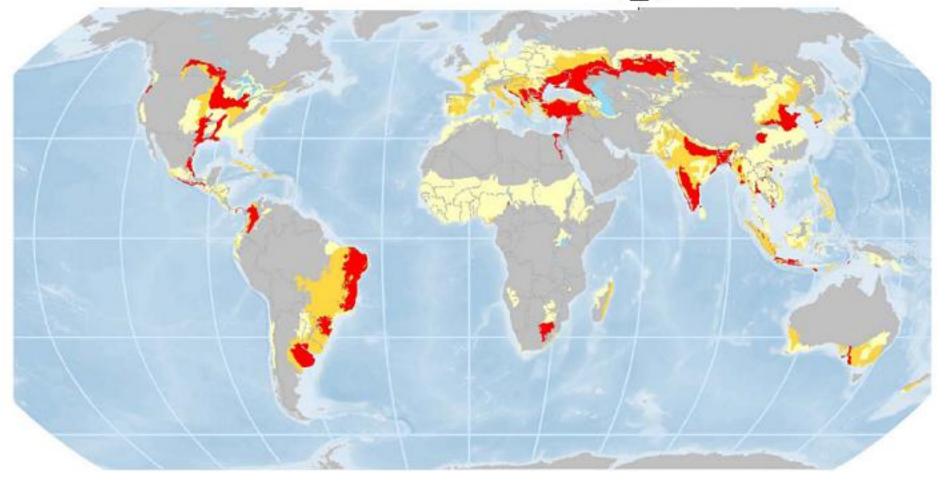
# Objectives

- Overview of the status of biodiversity
- Review the scientific foundation and approaches used in regional planning
- Importance of being strategic in your land protection decisions

# Biodiversity Risk



# Crisis Ecoregions



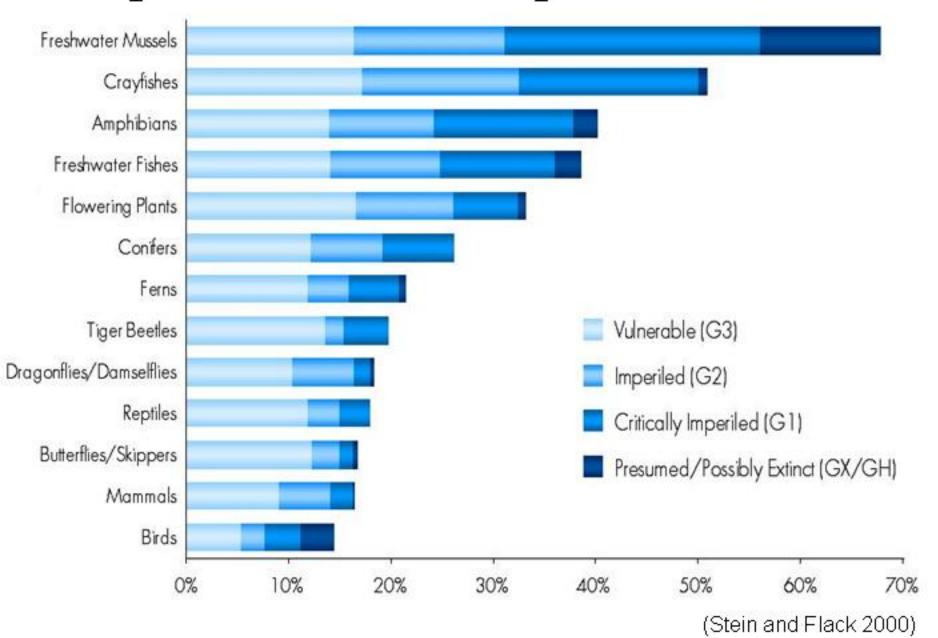




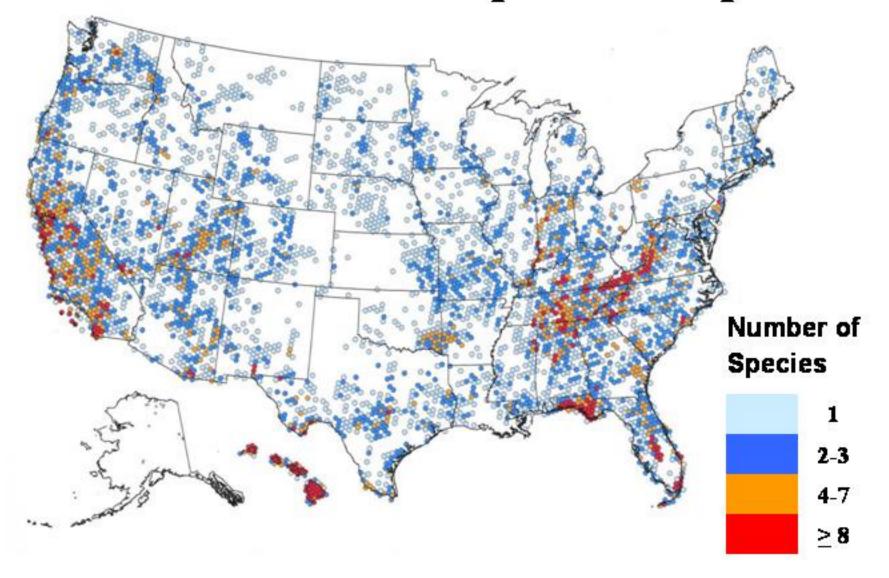


Vulnerable

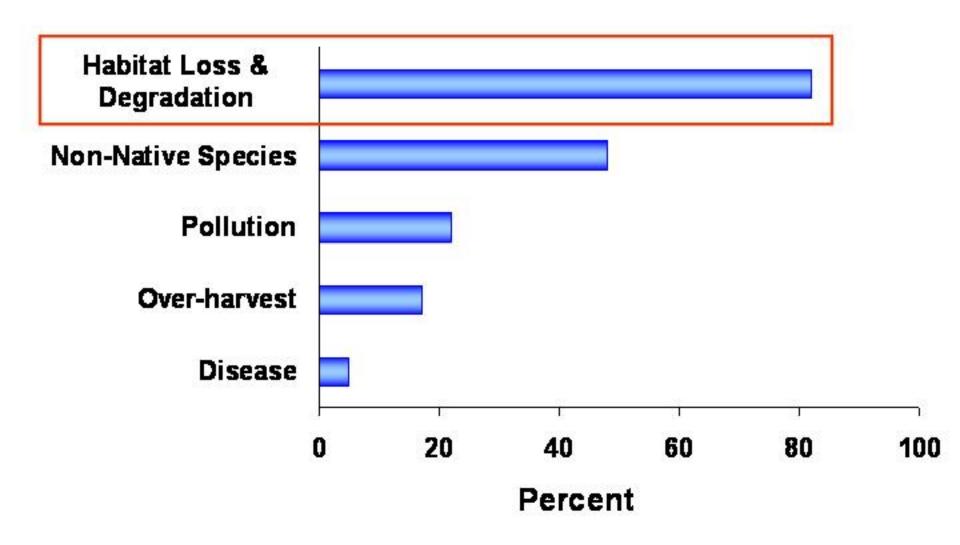
#### Proportion of US Species At-Risk



#### Distribution of Imperiled Species



#### Major Threats to Biodiversity

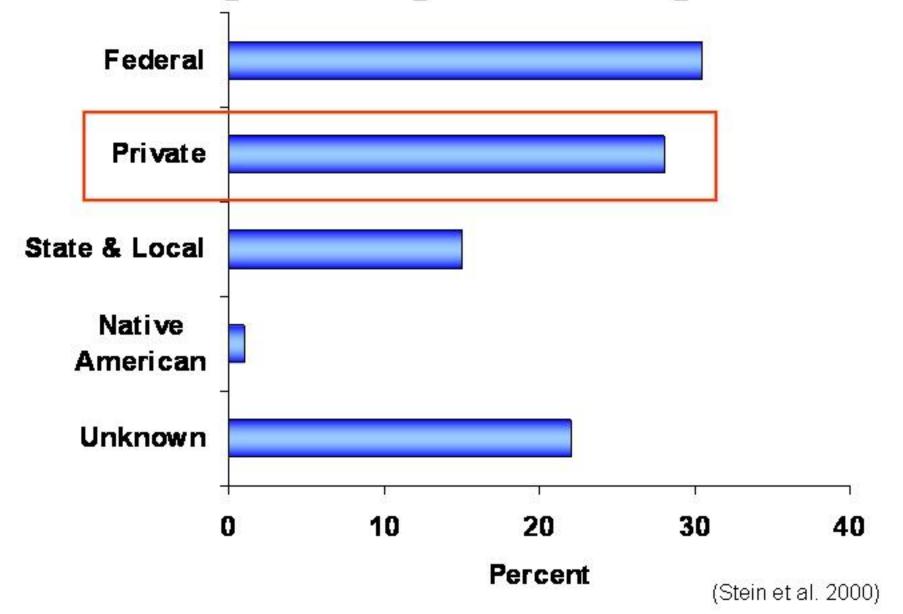




#### Operating Assumption

- Actively managed network of lands dedicated to conservation
- Surrounded by semi-natural matrix lands, managed compatibly with conservation goals, and
- Supported by practices and regulations that keep overall conditions relatively healthy

#### Ownership of Imperiled Populations





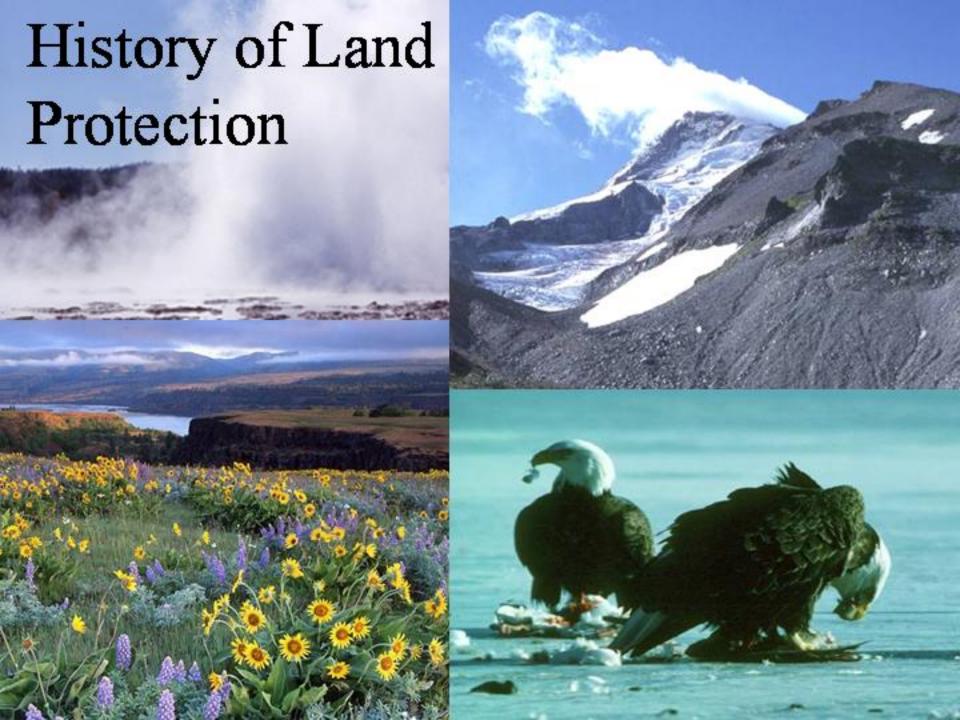
## Essential Questions

- Where should we work?
- What should we do when we get there?

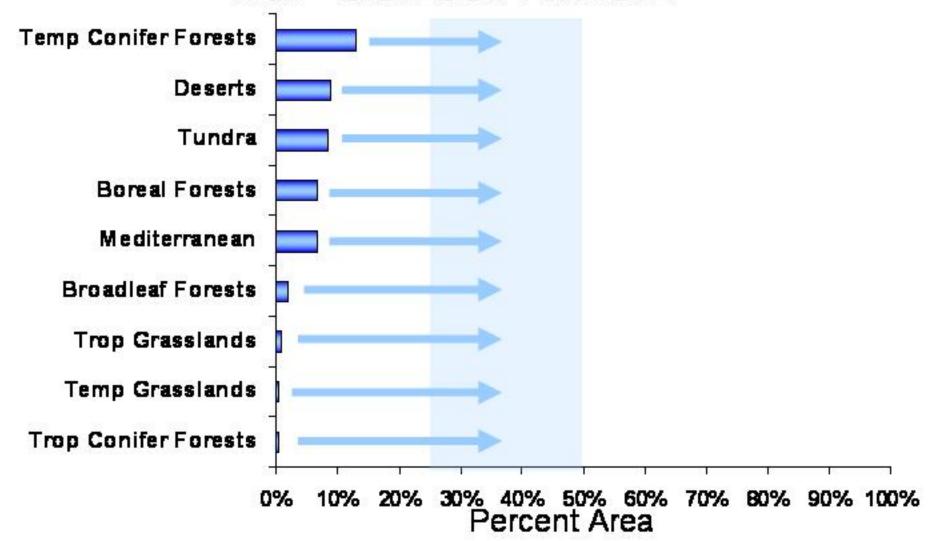


## Essential Questions

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# Percentage of Habitat Designated for Conservation



(The Nature Conservancy 2006)

### Systematic Multi-Species Planning

- Driven by wildlife biologists
- Informed by research in landscape ecology and conservation biology
- Aided by new technologies

## Key Background Work

- Margulus and Uscher (1981)
- Pressey (1993)
- Noss and Cooperrider (1994)
- Margulus and Pressey (2000)
- Groves (2003)

### Regional Conservation Plans

- Clearly identification of planning targets
- Set explicit goals
- Strive for efficiency
- Use simple, explicit methods
- Identify priorities
- Address long-term conservation needs

### Regional Planning Process

- Identify biodiversity
- Assemble data
- Assess existing conservation network
- Set Goals
- Evaluate the viability of the occurrences
- Analyze data to select a network of conservation areas
- Assess threats and set priorities

# Important Characteristics of Regional Conservation Networks

- Representative
- Resilient
- Redundant
- Restorative

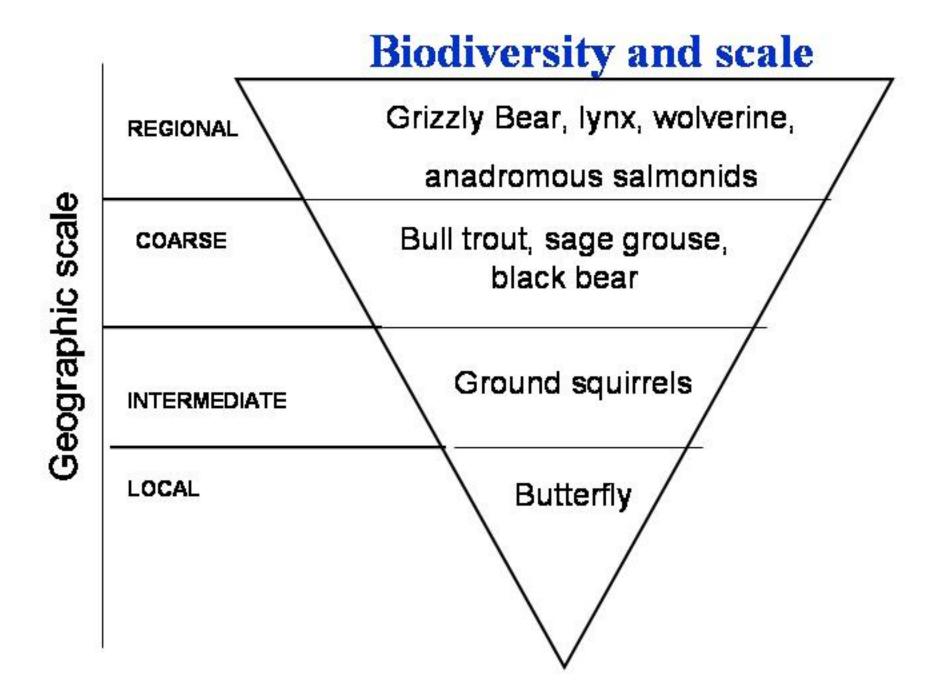
# Important Characteristics of Regional Conservation Networks

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# Representative

Capture the diversity of the planning area

- Imperiled, declining and endemic species
- Ecological systems
- Individual plant communities
- Important aggregation sites



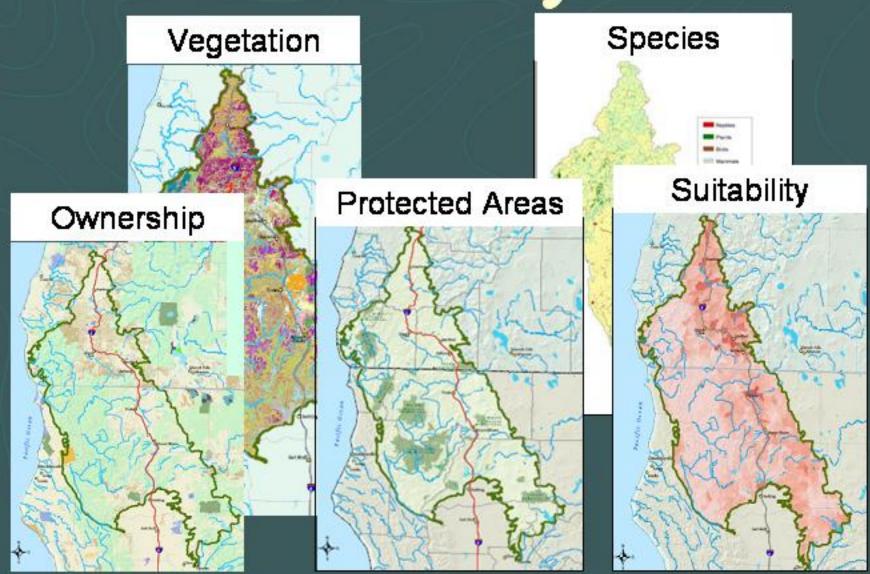
## Redundancy

- Populations/occurrences
- Distribution of occurrences
- Habitat area

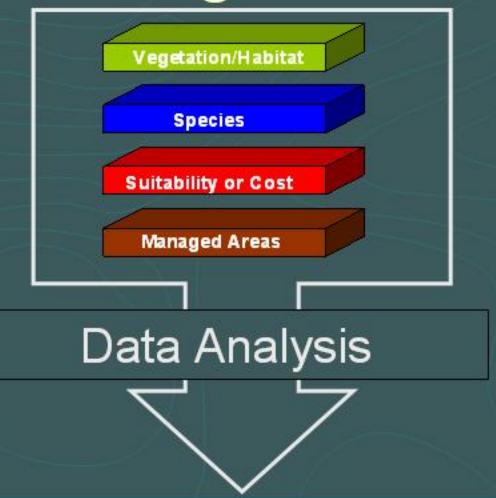
## Efficiency

- Existing conservation network
- How to best build on that network
  - Cost of conservation
  - Threats

# Data Assembly



### Assembling the Portfolio

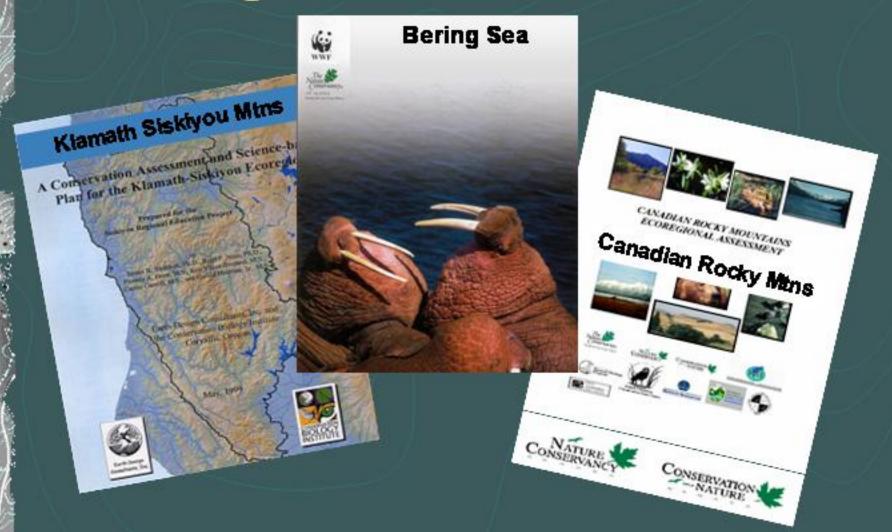


Conservation Network

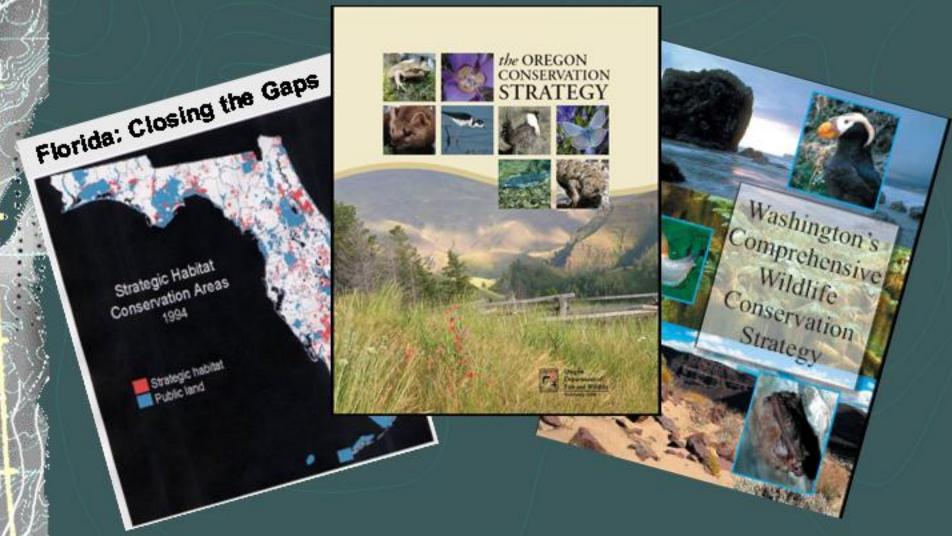
#### Final Portfolio



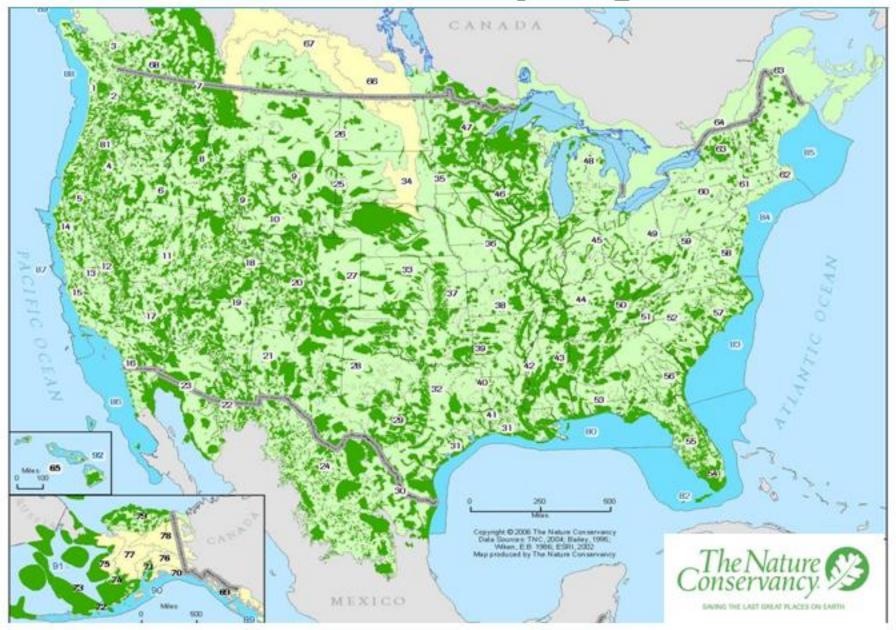
## Ecoregional Plans



#### State Conservation Strategies



#### Areas of Biodiversity Significance



#### Development Stages of a Land Trust

Stage	Activity	Approach	Scale
Forming	Need easement to prove concept	Opportunistic	Local
Progress	Criteria to accept easements	Opportunistic/ Proactive	Service Area
Mature	Accept and Seek Easements	Proactive	Service Area +
Advanced	Use diverse tools	Strategic	Regional

