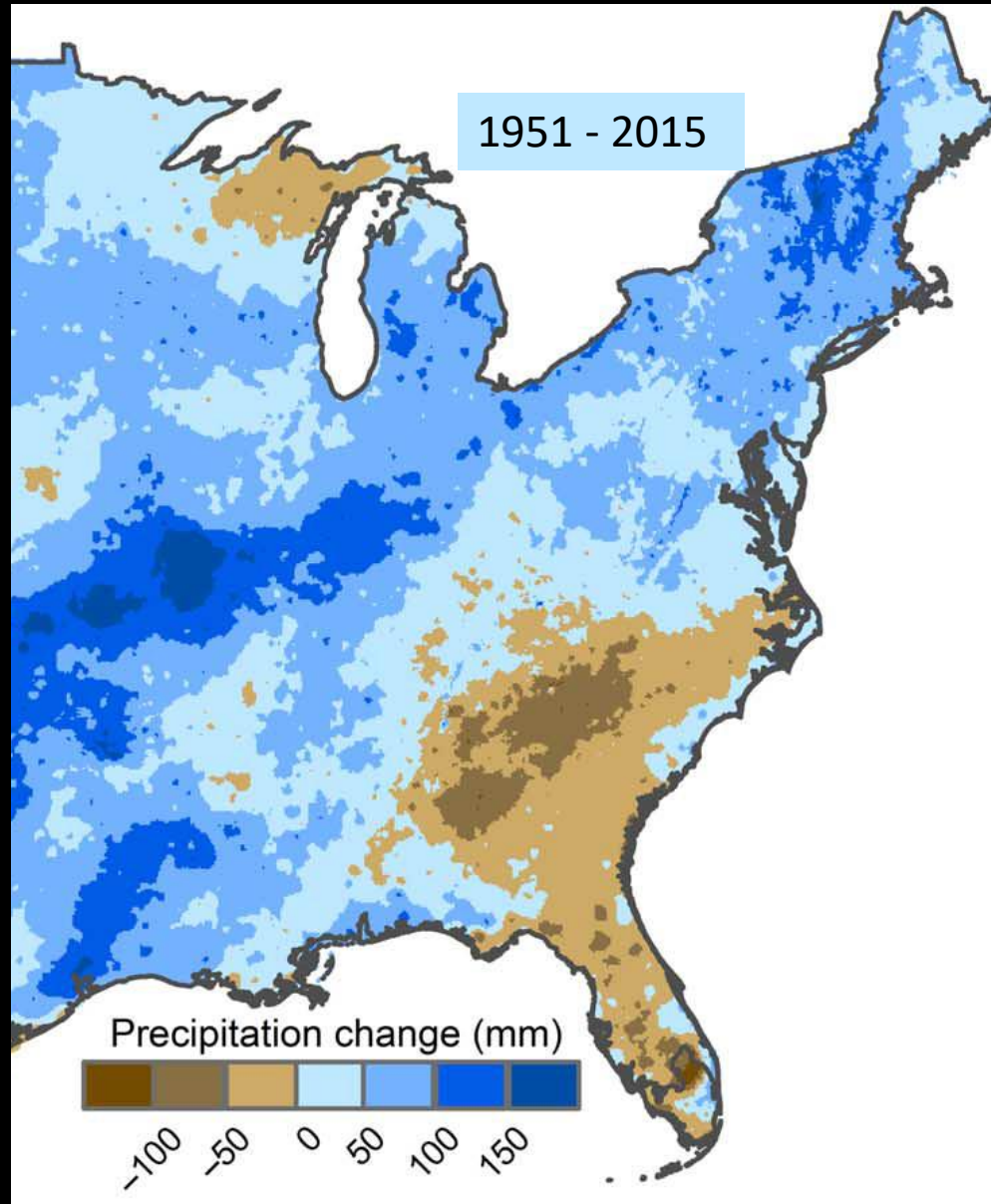


# Resilient and Connected Network





# Moisture change



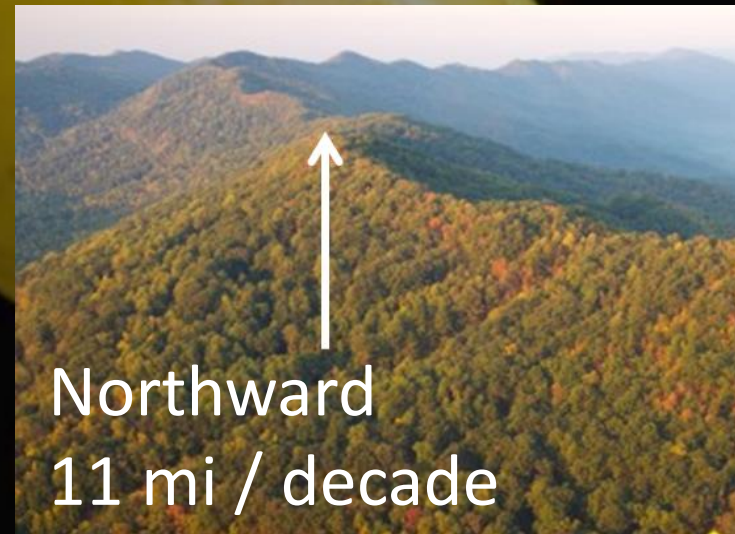
# How nature responds

Population goes extinct  
Stay, adapt, evolve  
Move – locally or shift range

Upslope  
36 ft / decade



Northward  
11 mi / decade



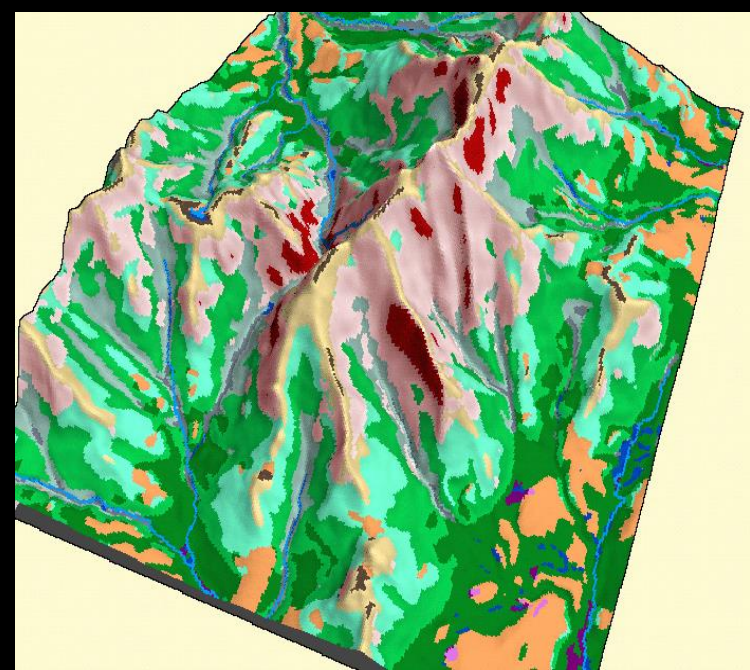
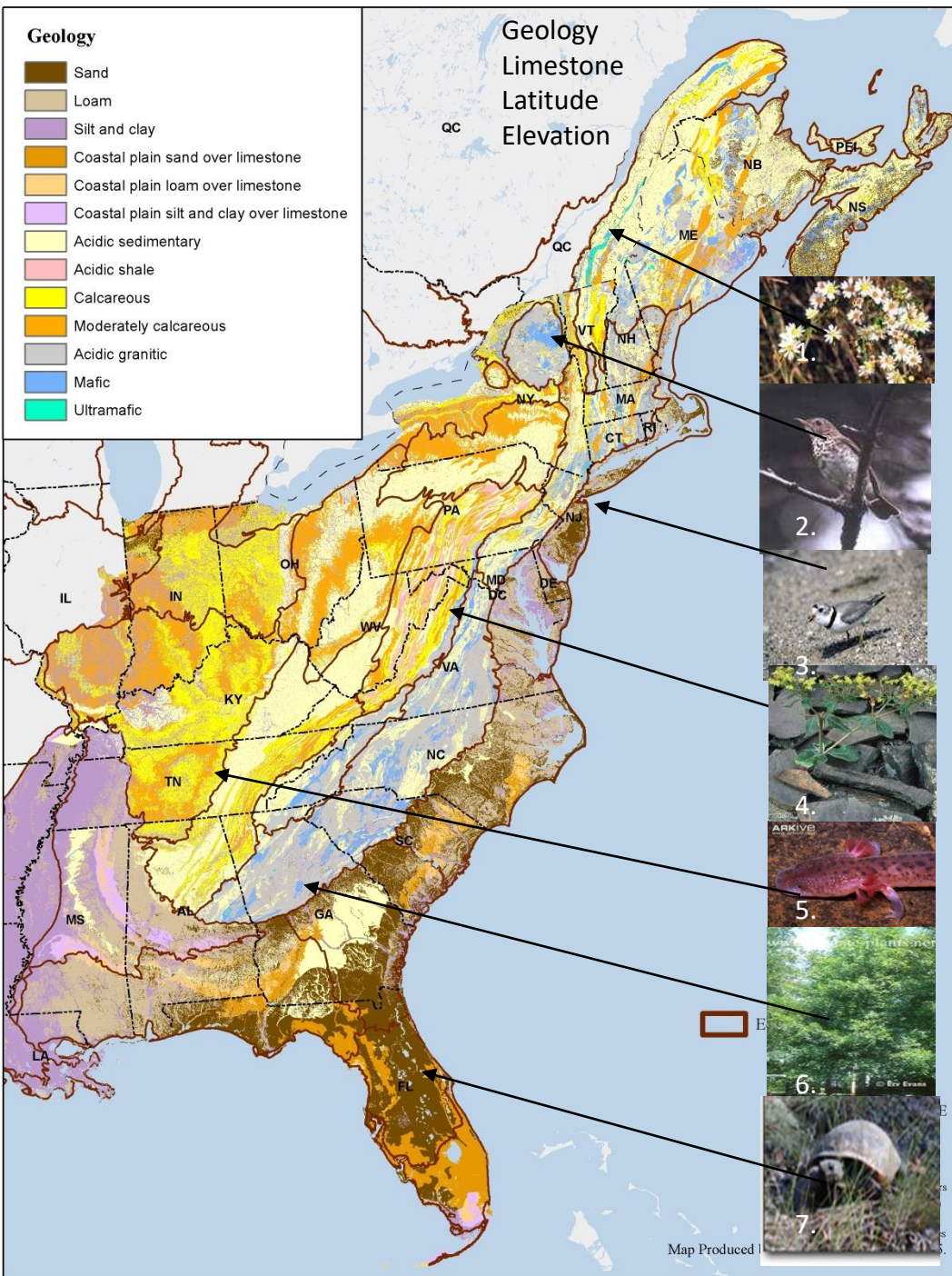
# Resilient Landscapes

Sustain North  
America's natural  
diversity

3 Ingredients



# 1. Landscape Complexity



## 2. Connectivity

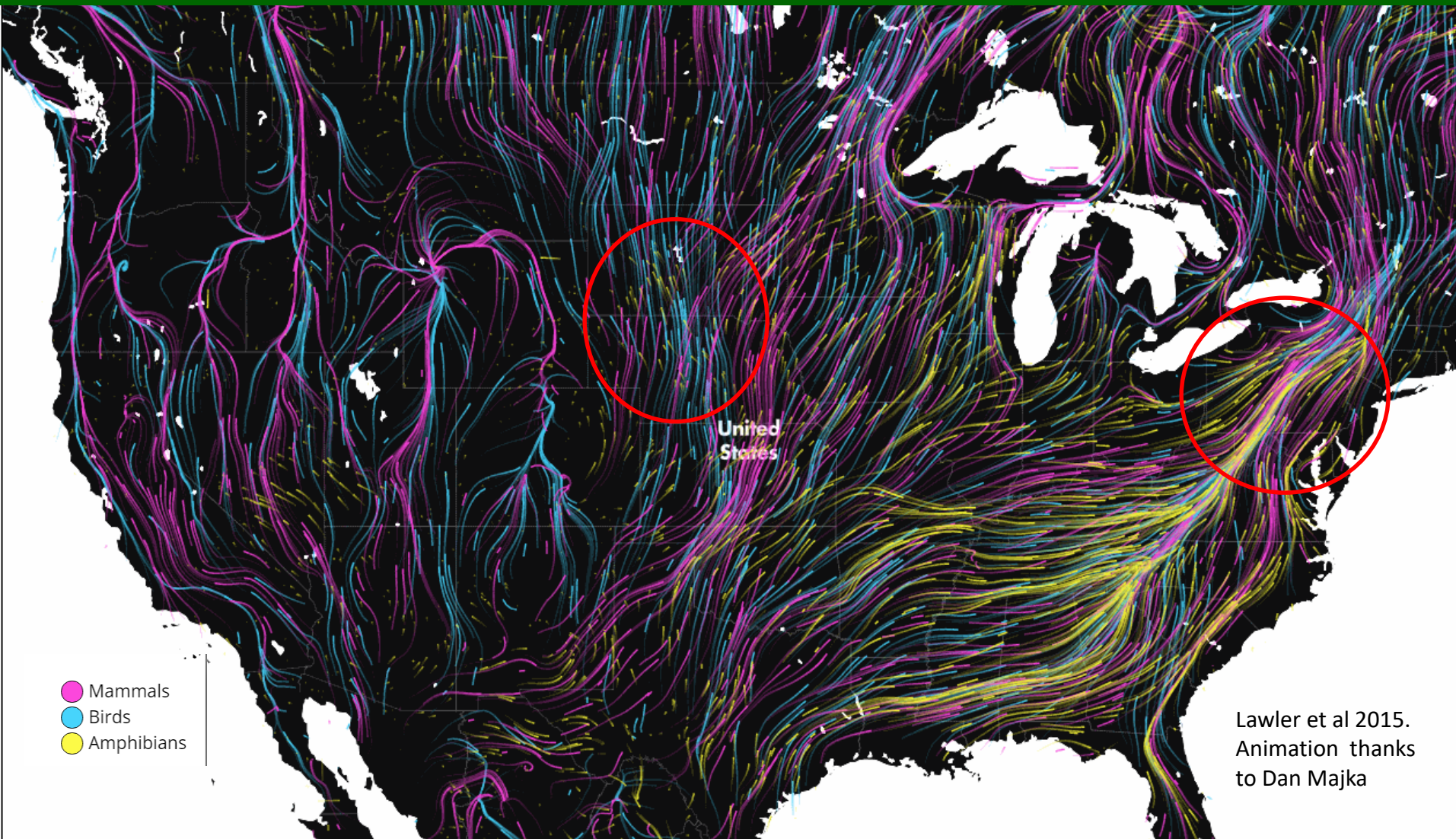


# Climate Flow: Model

**Current Rates per decade:** 11 miles north, 36 feet upslope



# Climate Flow: Model

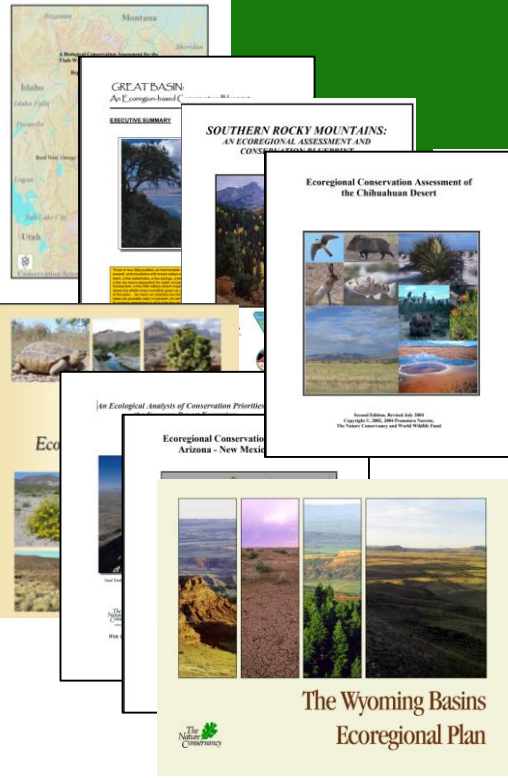


**Current Rates per decade:** 11 miles north, 36 feet upslope

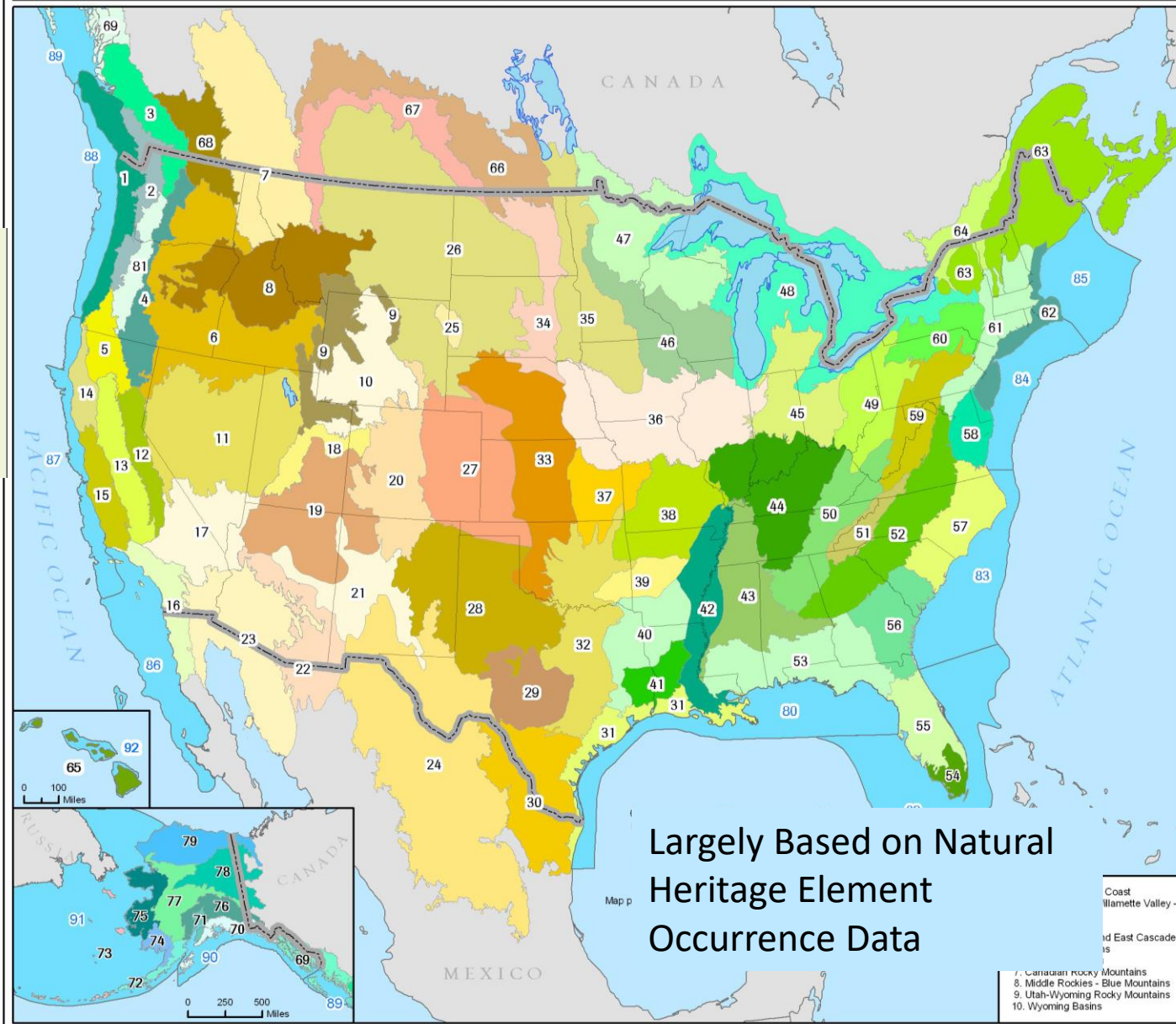
# 3. Biological Diversity



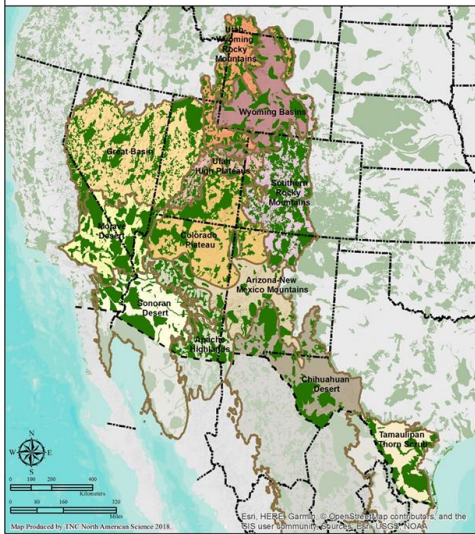
# Biodiversity Assessments



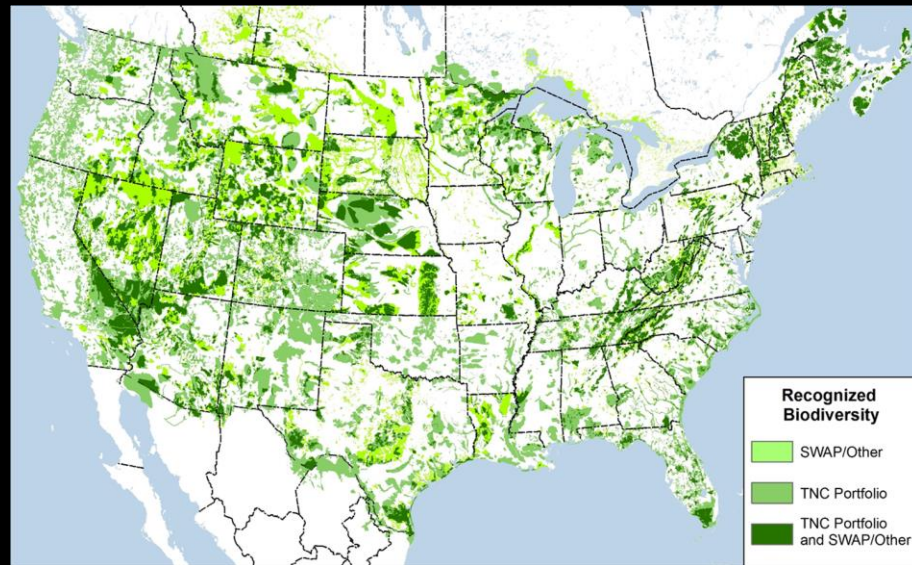
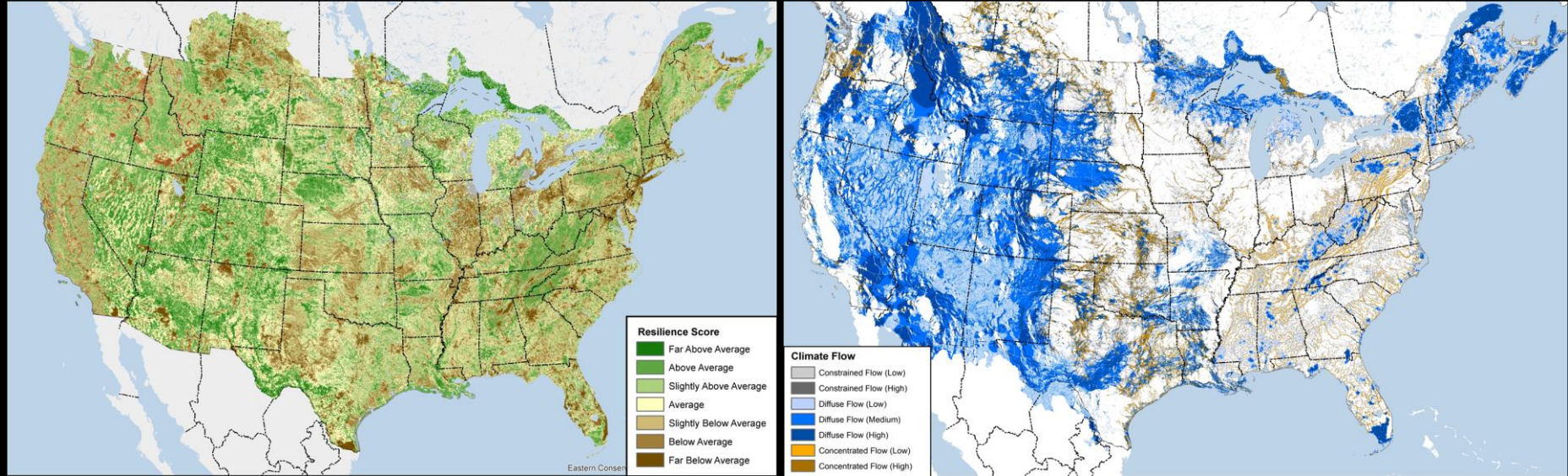
## Terrestrial and Marine Ecoregions of the United States



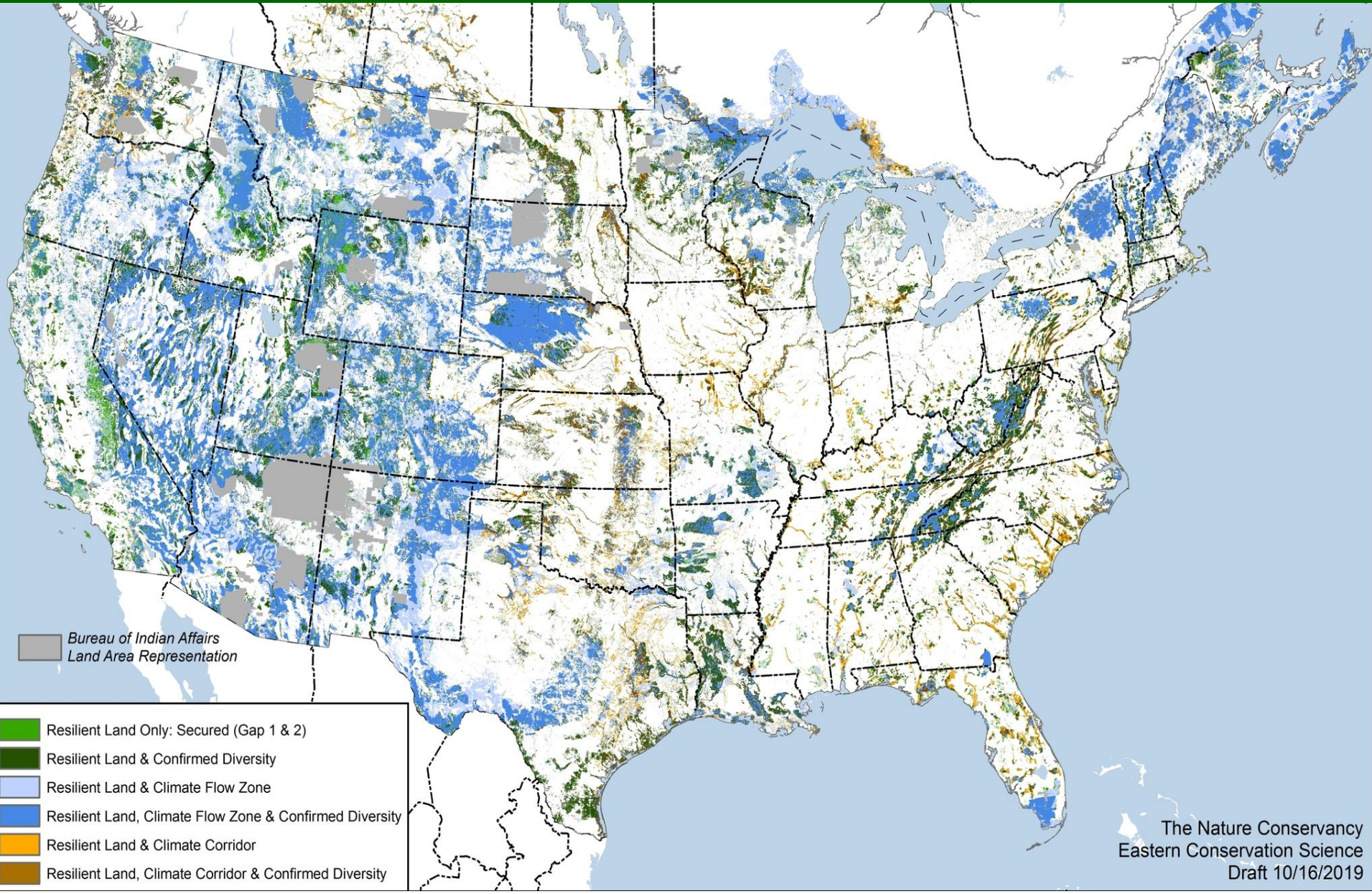
### TNC Portfolio Areas



# Resilient Sites + Flow + Biodiversity =

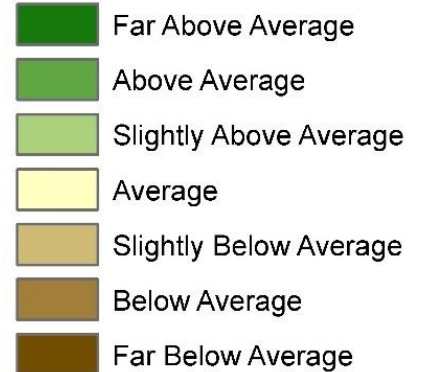


# Resilient and Connected Network



## *Landscape Diversity + Connectivity*

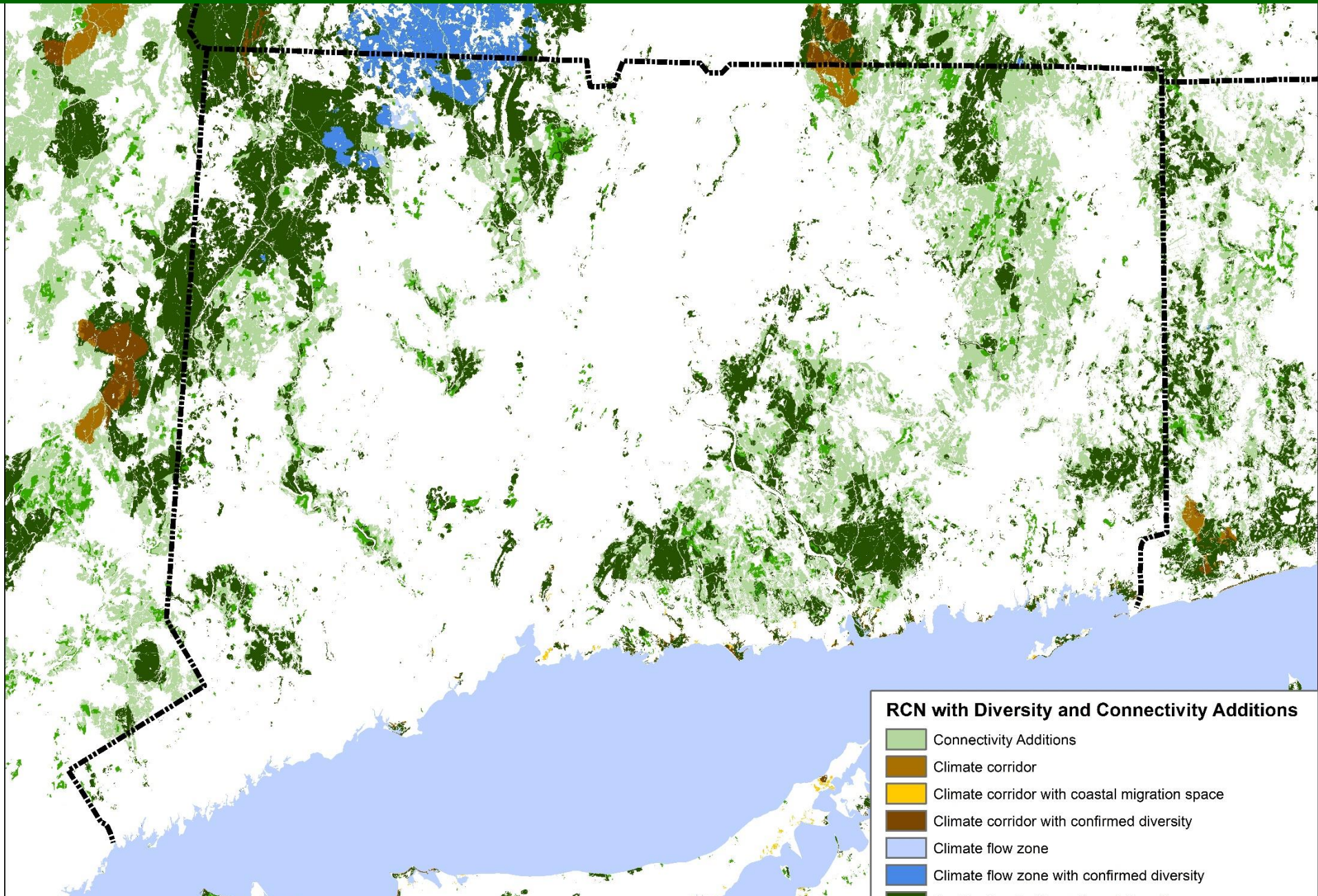
### Resilience Score



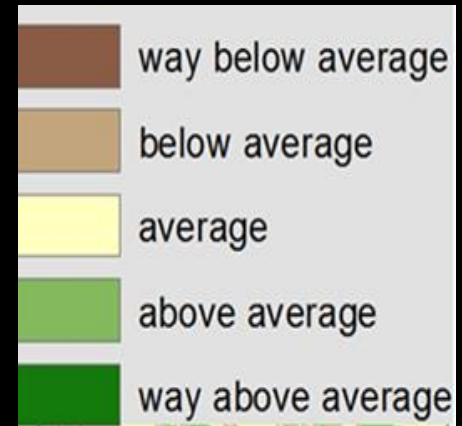
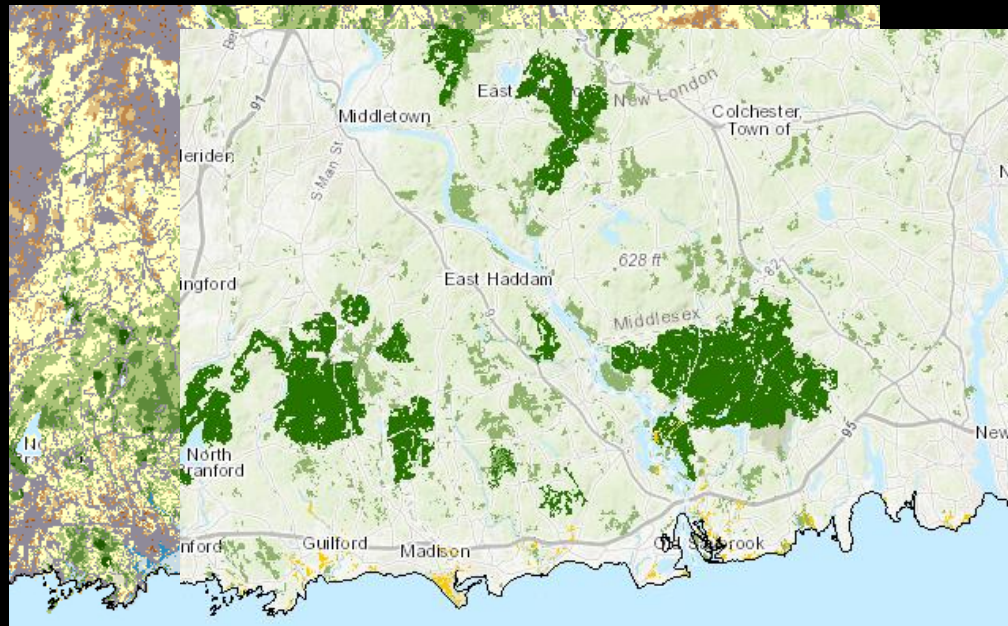
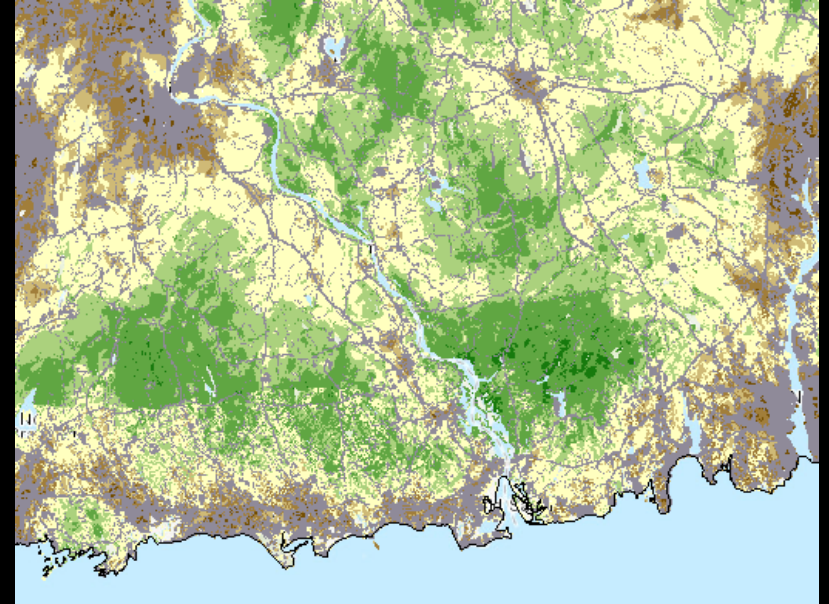
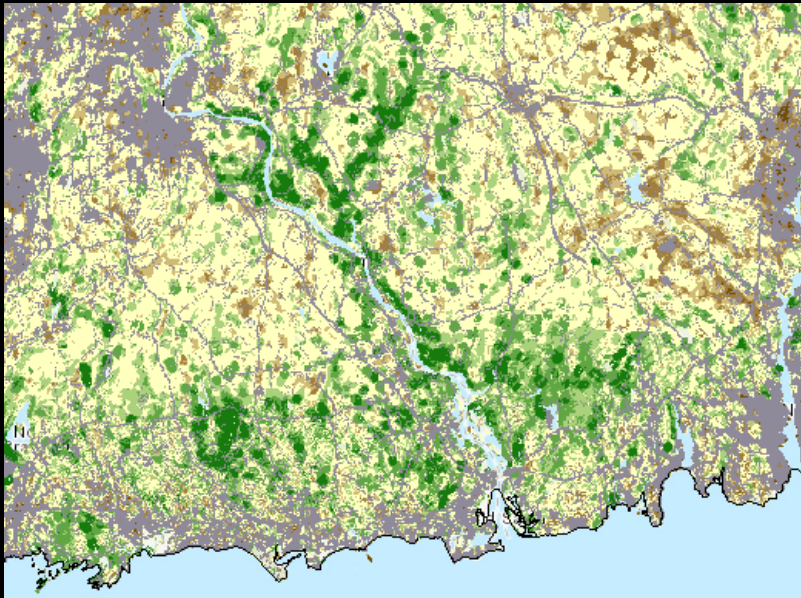
**Above avg. resilience = 750,000 acres = 24% of CT**

**Average resilience = 960,000 acres = 30% of CT**

# Resilient and Connected Network



# Snapshot: Lower Connecticut River





# Resilient Land Tool



**Conservation Gateway**  
The Nature Conservancy

Shared methods. Smarter conservation.

Conservation Planning | Conservation Practices | Conservation By Geography

Conservation By Geography

**Resilient and Connected Landscapes**

Connected Landscapes  
See how the world's most resilient landscapes are being conserved. Find out how large-scale climate change.

Resilient Land | Connected Landscapes | Conservation Strategies | Reports and Data

**Resilient and Connected Landscapes**  
for Terrestrial Conservation

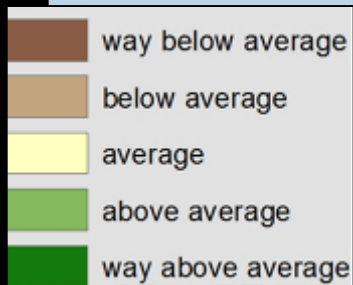
The Nature Conservancy

NO-NR-15-011 | APR 15 | CONNECTED LANDSCAPES | 02-2014-01-01 | APR 15 | 2014

**Resilient Sites for Terrestrial Conservation in Eastern North America**  
2016 Edition

The Nature Conservancy, Eastern Division

Mark G. Anderson, Annie Burnett, Melissa Clark, Charles Terres, Arlene Olvera Sheldon, and John Prince



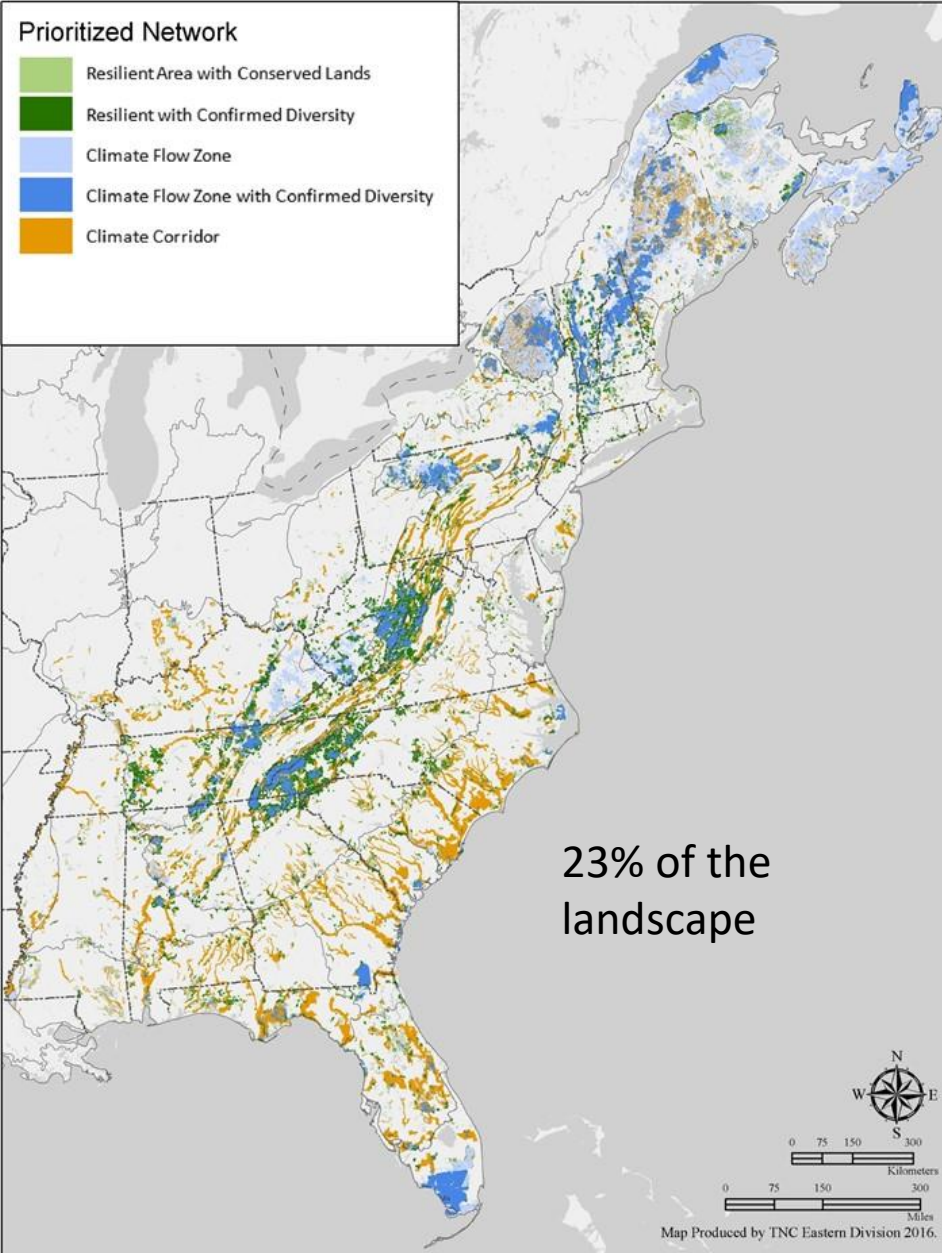
<http://nature.ly/TNCResilience>  
<http://maps.tnc.org/resilientland>



# Multiple Benefits

## Prioritized Network

- Resilient Area with Conserved Lands
- Resilient with Confirmed Diversity
- Climate Flow Zone
- Climate Flow Zone with Confirmed Diversity
- Climate Corridor



23% of the landscape

0 75 150 300  
Kilometers  
0 75 150 300  
Miles  
Map Produced by TNC Eastern Division 2016.



**Carbon storage**



**Water supply**



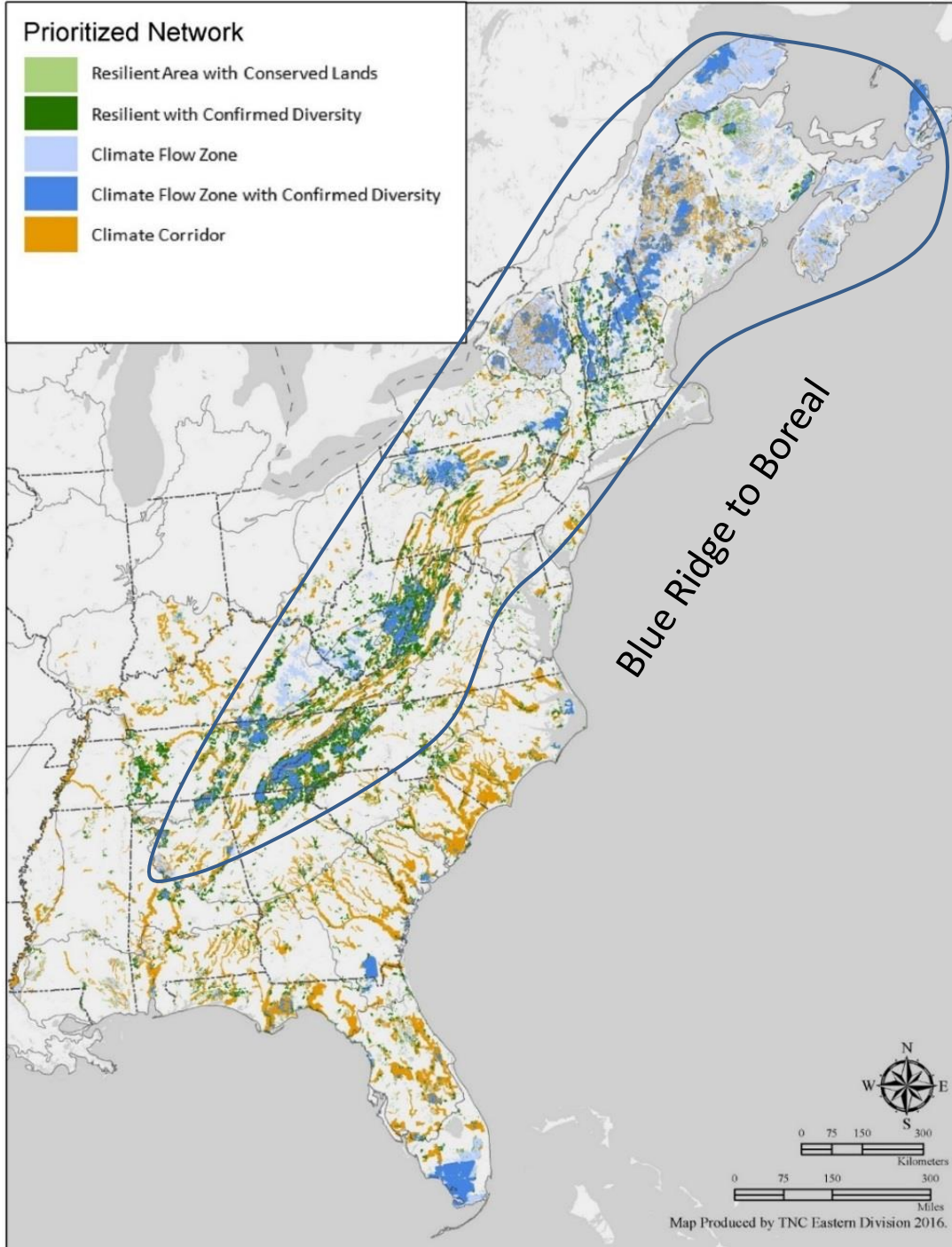
**Air quality**



**Recreation**

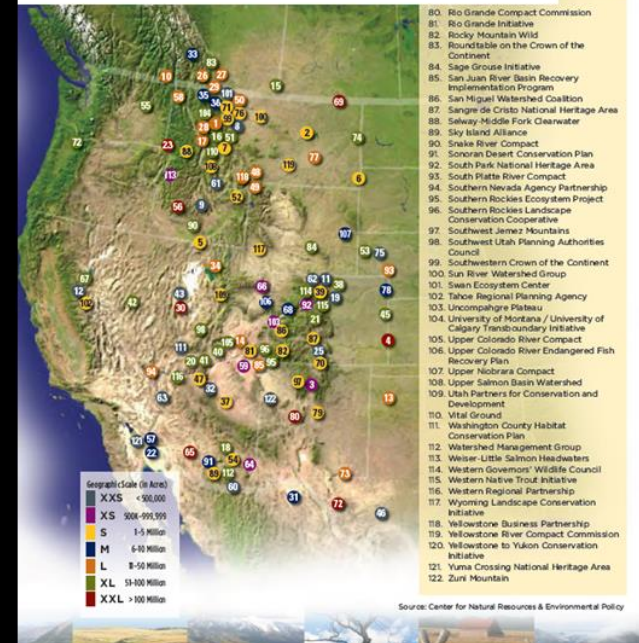
## Prioritized Network

- Resilient Area with Conserved Lands
- Resilient with Confirmed Diversity
- Climate Flow Zone
- Climate Flow Zone with Confirmed Diversity
- Climate Corridor



# Collaboration

## Large Landscape Conservation Initiatives.



# Looking Ahead

