



Landscape Conservation Cooperatives

A Collaborative Approach to Meet the Challenge of Environmental Change

**Richard F. Kearney
Pacific Southwest Region
U.S. Fish and Wildlife Service**

Agenda

Landscape Conservation Cooperatives

- LCC Purpose and Functions
- Potential Outcomes and Products

LCCs in the Southwest

- Overview
- Status

The Potential Role of DMG in LCCs

The Challenge of Climate Change

Effects of projected changes include:

- **Rising Sea Levels**
 - Wetlands Loss in SF Bay and Delta
 - Increased Coastal Flooding



**Areas Vulnerable to Sea Level Rise
Projected by 2100**

The Challenge of Climate Change

Effects of projected changes include:

➤ Longer, More Frequent Droughts

- Increase in Number and Intensity of Wildfires
- Reduced Water Availability in Central Valley

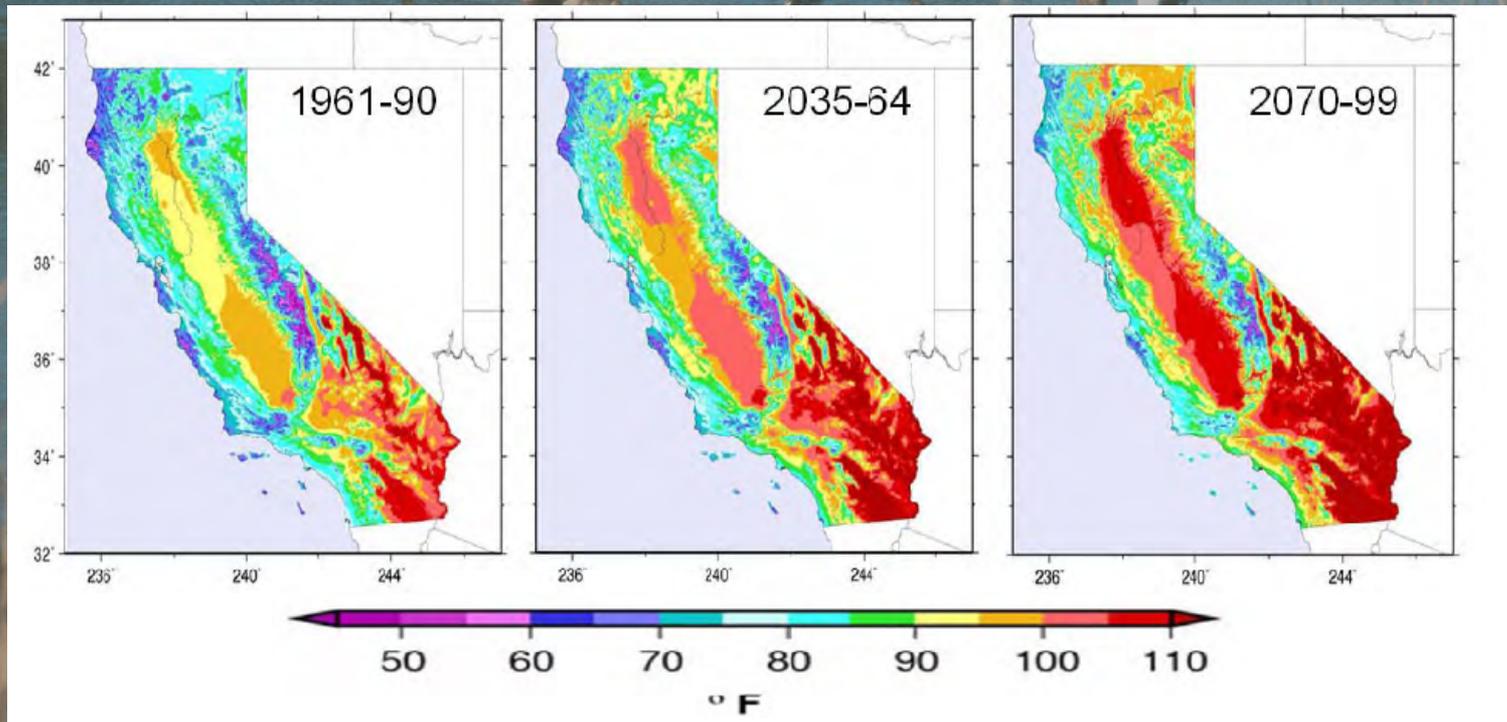


The Challenge of Climate Change

Effects of projected changes include:

➤ **Hotter Summer, Earlier Growing Season**

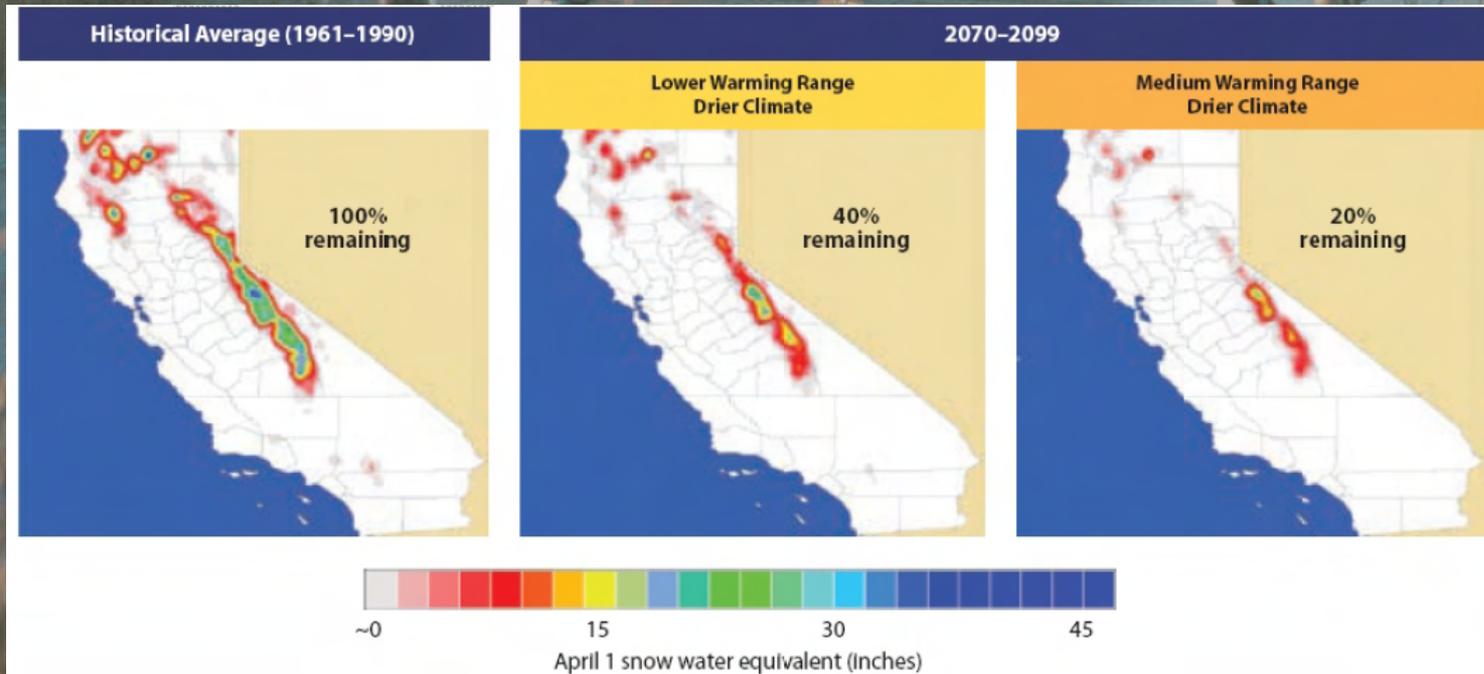
California Historical and Projected July Temperatures 1961-2099



The Challenge of Climate Change

Effects of projected changes include:

- **Reduced Snow Pack in Sierra Nevada**
 - Earlier Peak Flows in Klamath, Sacramento, and San Joaquin Rivers

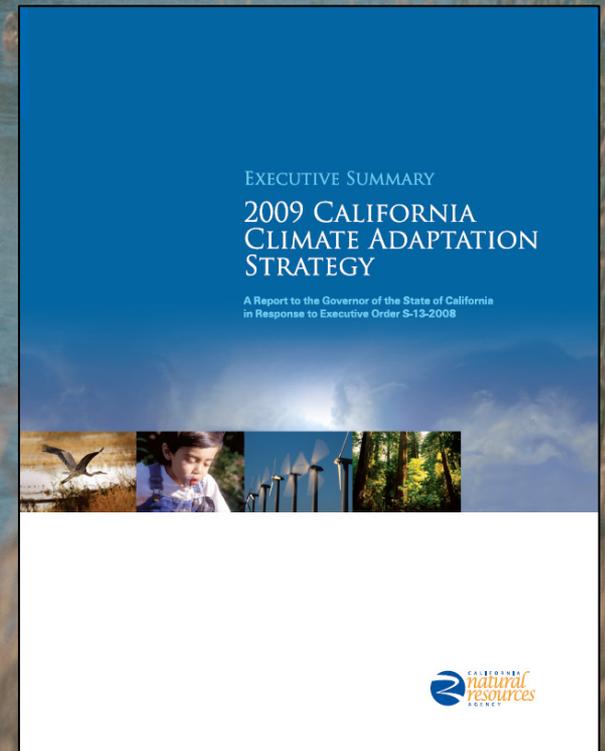


Organizational Challenge

Existing regional climate efforts:

- **State of California Climate Adaptation Program**
 - Comprehensive Interagency Effort
- **West Coast Governors**
- **Western Governors Assoc**
- **Western Climate Initiative**

- **Individual agency and local climate adaptation programs**



Regional Climate Science

- *California Climate Science Center (Cal Energy)*
- *Univ of California, Univ of Nevada Systems*
- *Desert Research Institute*
- *NOAA California Applications Program*
- *National Climate Change and Wildlife Science Center*
- *U.S. Geological Survey Science Centers*
- *USDA-Forest Service Research Centers*
- *California/Nevada Cooperative Ecosystem Studies Units*

Data Rich, Information Poor

What's Needed?

Downscaled Climate Models

Synthesis of Existing Data

Vulnerability Analyses

Decision Support Tools/Systems

- **An organizational framework for applying the above in a coordinated manner**

Landscape Conservation Cooperative



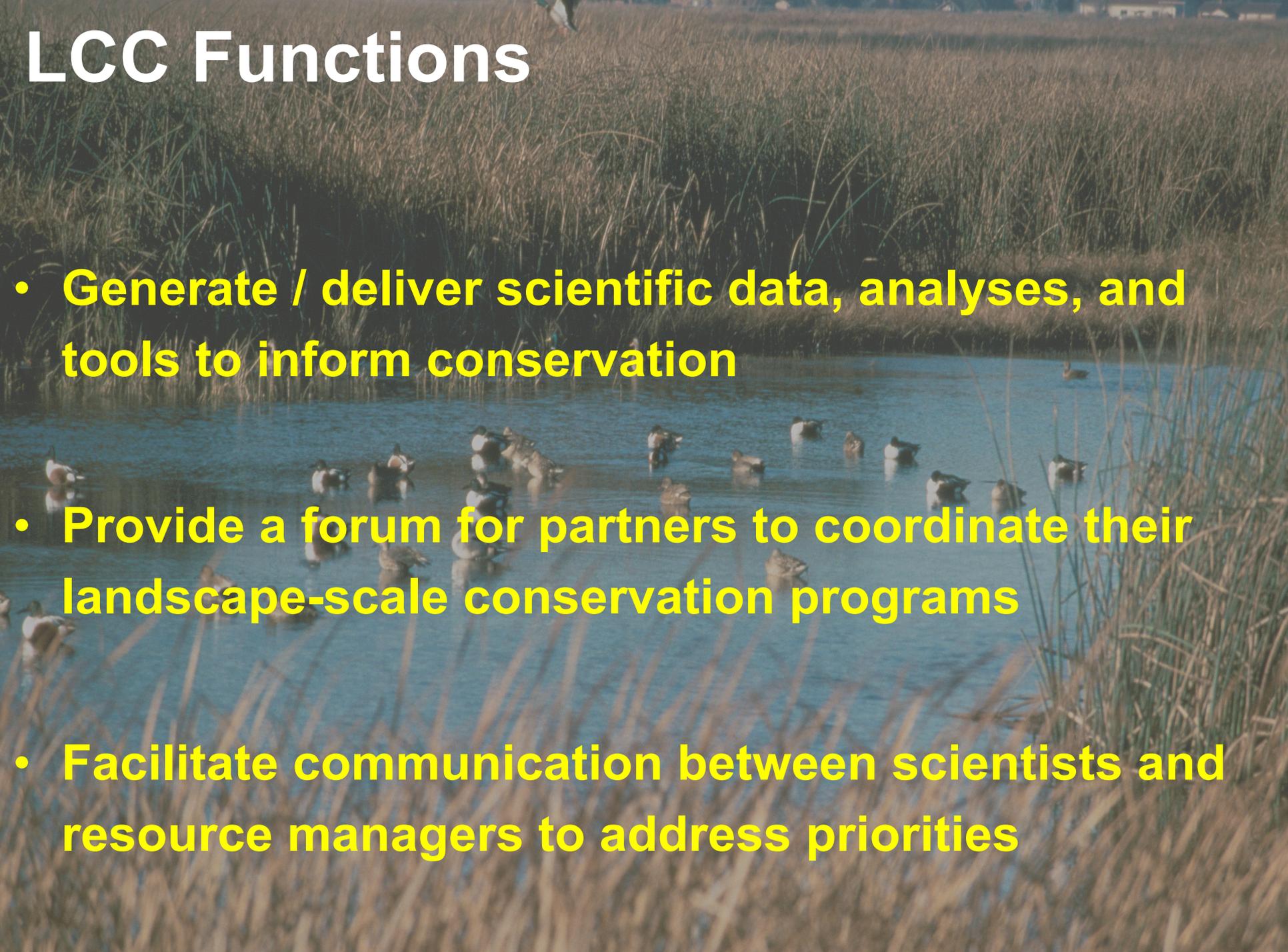
- **Public-private science partnership for addressing landscape-scale stresses on natural resources**
- **Alliance of willing partners who have complementary conservation goals and agree to work together on shared priorities**
- **LCC resources provide science and technical support to partners in a geographic area**

Landscape Conservation Cooperatives

What Are They Not?

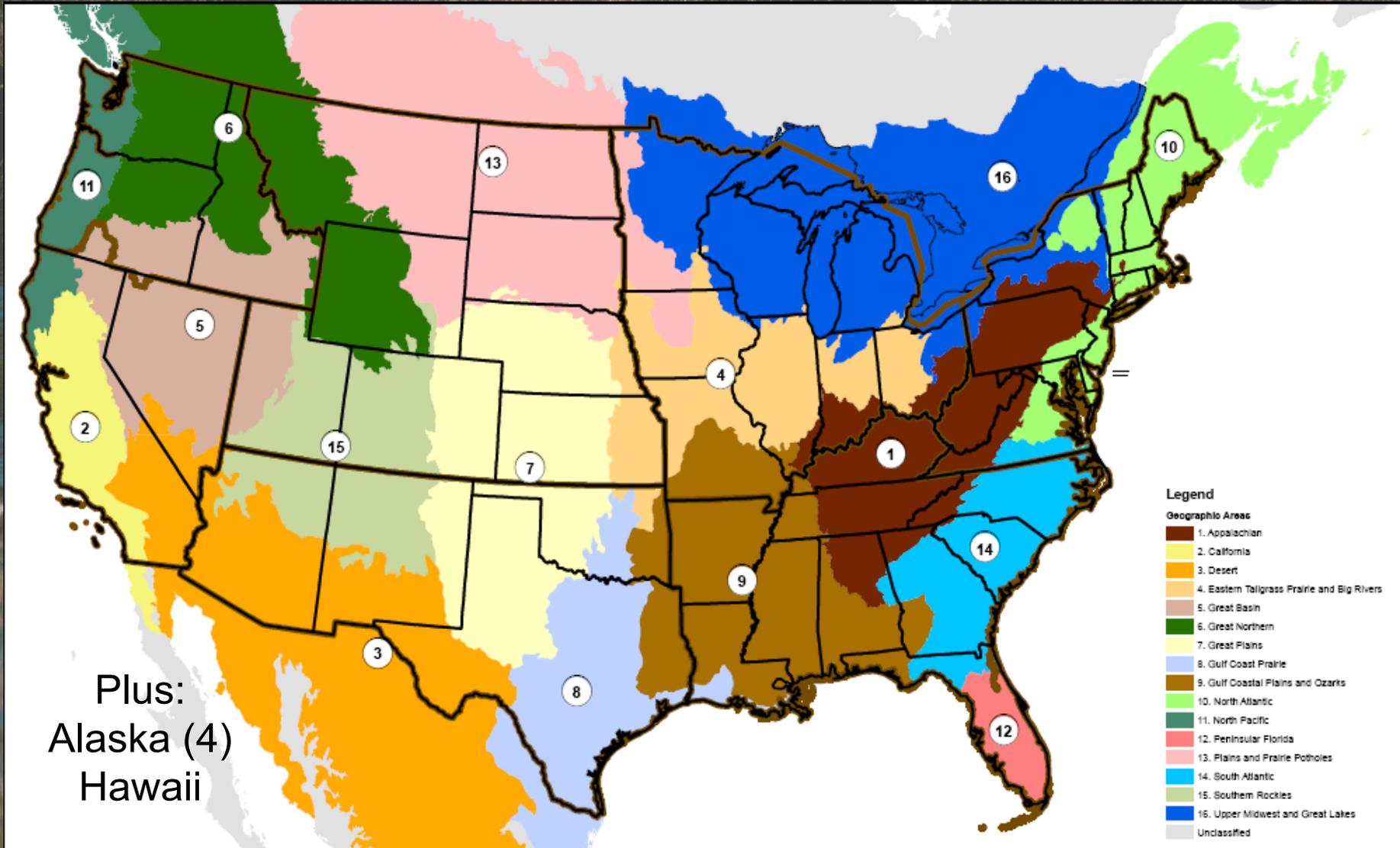
- Conservation delivery organizations
- Replacements for existing organizations, cooperatives, or partnerships
- Focused solely on climate change
- Regulatory in nature

LCC Functions



- **Generate / deliver scientific data, analyses, and tools to inform conservation**
- **Provide a forum for partners to coordinate their landscape-scale conservation programs**
- **Facilitate communication between scientists and resource managers to address priorities**

LCC Geographic Areas



Potential LCC Partners



- **Federal, State, Regional Government Agencies**
- **Tribal Fish & Wildlife Authorities**
- **Migratory Bird Joint Ventures**
- **Fish Habitat Partnerships**
- **Nongovernmental Organizations**
- **Colleges / Universities**
- **Other Public and Private Conservation Interests**

LCC Governance / Infrastructure

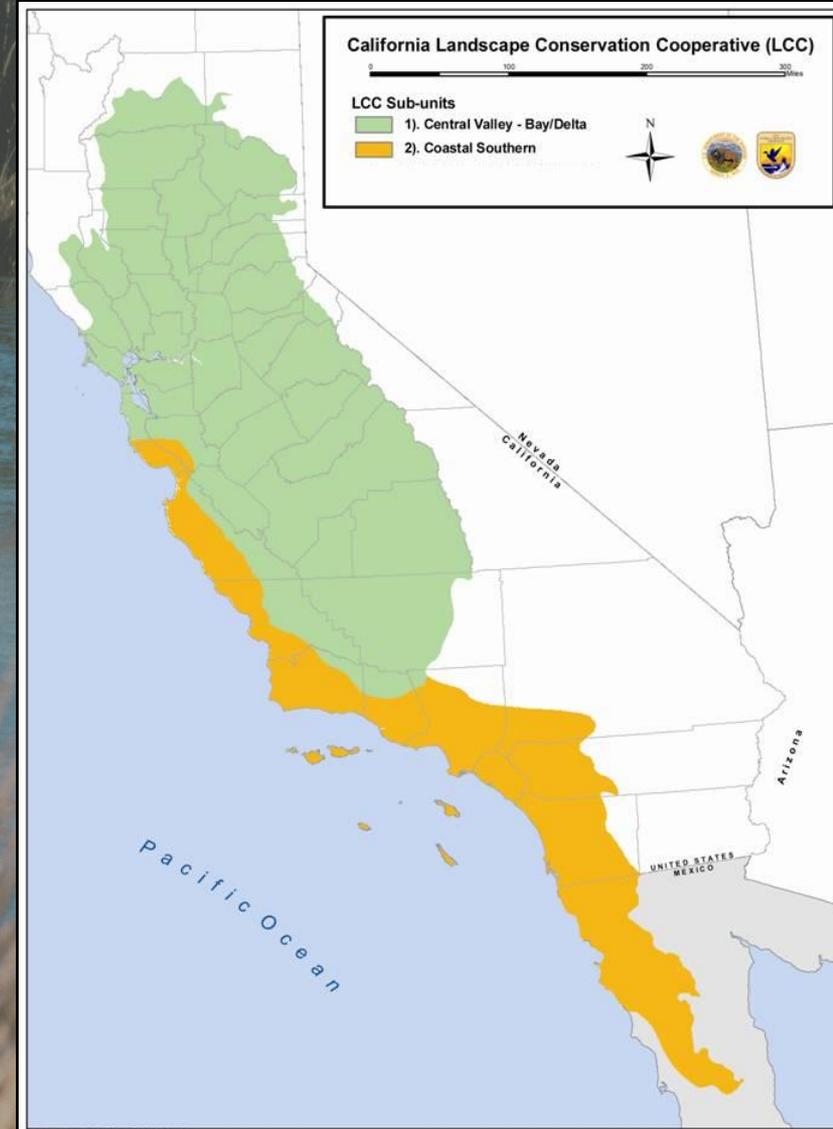
- **Steering Committee**
- **LCC Coordinator**
- **Support Staff (USFWS and others, as needed)**
- **Committees (as determined by partners)**
 - **Based on shared interests, geographic subunits**

California LCC

**Initial Focus - Bay, Delta,
Central Valley, Foothills**

**Future - Expand focus to
central / southern
coast, Mexico**

**Initial Partners: DOI Bureaus,
USDA-FS, NOAA, CDFG,
Tribes, SFBJV, CVJV,
NGOs, Others**



Status of California LCC Planning

- **Ongoing discussions with LCC partners to define roles, contributions, governance**
- **LCC Coordinator & Science Manager being hired**
- **USFWS is hosting a workshop on March 18 to:**
 - **develop a common vision for the LCC**
 - **review and approve LCC functions / form**
 - **outline a process for defining goals / priorities**
 - **lay out next steps**

Great Basin LCC

Status – Scheduled for 2011

– Preliminary discussions with partners underway

– Science/manager workshop scheduled April 21-23 at UNLV

Initial Partners: DOI Bureaus, USDA-FS, States, Tribes, IWJV, NGOs, Others

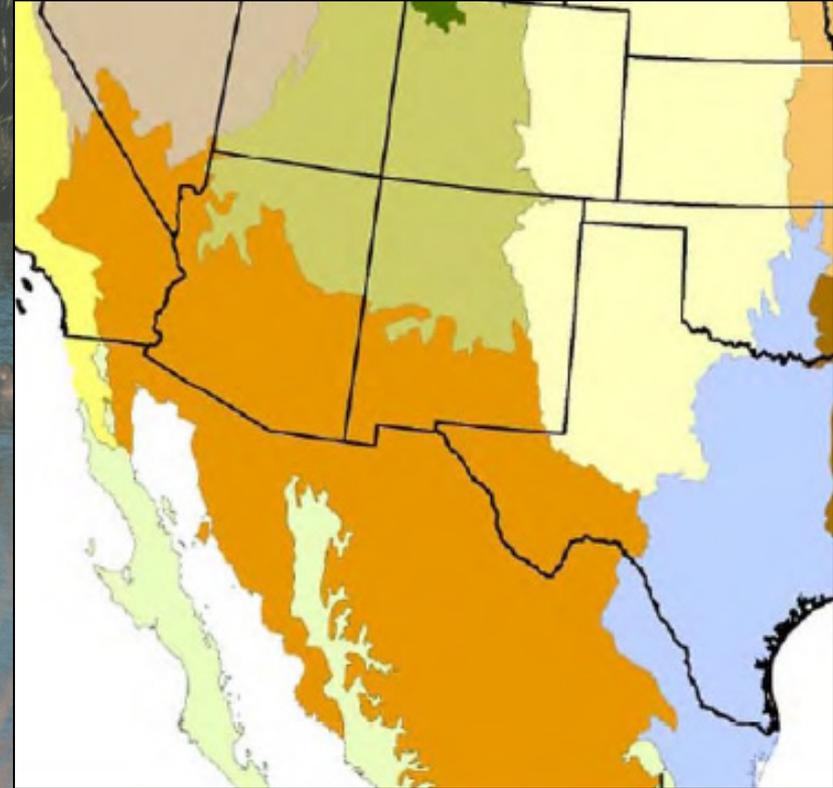


Desert LCC

Status – Scheduled for 2011

**– Regional meetings
with partners to be
scheduled**

**Initial Partners: DOI Bureaus,
DOD, States, Tribes,
Sonoran JV, NGOs,
Others**



What is the Potential Role of DMG?

- **Learn more, help shape the future**
 - Participate in LCC Planning Efforts
- **Reap the benefits of LCCs**
 - Take advantage of LCC science assets
 - Learn what other partners are doing
- **Work with others on landscape-scale issues**

Questions / Comments?

For more information:

Rick Kearney

U.S. Fish and Wildlife Service

(916) 978-6160

Richard_Kearney@fws.gov