

THREATS AFFECTING FISH AND WILDLIFE IN CALIFORNIA



Forest and Rangeland Assessment Steering Committee Meeting
October 4, 2012



THREATS

- **Population growth:** sprawl, development, need for lumber, roads and highways, light pollution
- **Climate change:** wildfire, drought, loss of snowpack, invasive species/pests/pathogens, flooding, no-analogue ecological shifts
- **Illegal activity:** pollution, poaching, trespassing, non-native introductions
- **Adverse modification of habitats**

ECOLOGICAL IMPACT

- Loss or degradation of habitat
- Less water and warmer water temperatures
- Loss of resiliency in habitats
- Loss of resiliency in fish and wildlife populations
- Invasive species, competition, predation
- Increased undesirable human-wildlife encounters
- Loss of esthetic and recreational values
- Fish and wildlife borne pathogens and disease
- Loss of commercial opportunities
- Loss of night light

SWAP 2015 UPDATE

- Completed in 2005, required updates every 10 years
- Integrate new information, form new partnerships
- Articulate strategy for conservation of priority species and habitats
- Identify data gaps, research and monitoring needs
- Assess threats and stressors at multiple scales



VISION FOR SWAP 2015 UPDATE

Through the California State Wildlife Action Plan, the Department of Fish and Game seeks to conserve the resources in the nation's most biologically diverse state. We seek to create a flexible but scientific process to respond to changing challenges, including population growth, the need for renewable energy, and global climate change. The Department seeks to make best use of limited resources while developing lasting partnerships and increasing public participation in the conservation and management of California's valued natural resources.

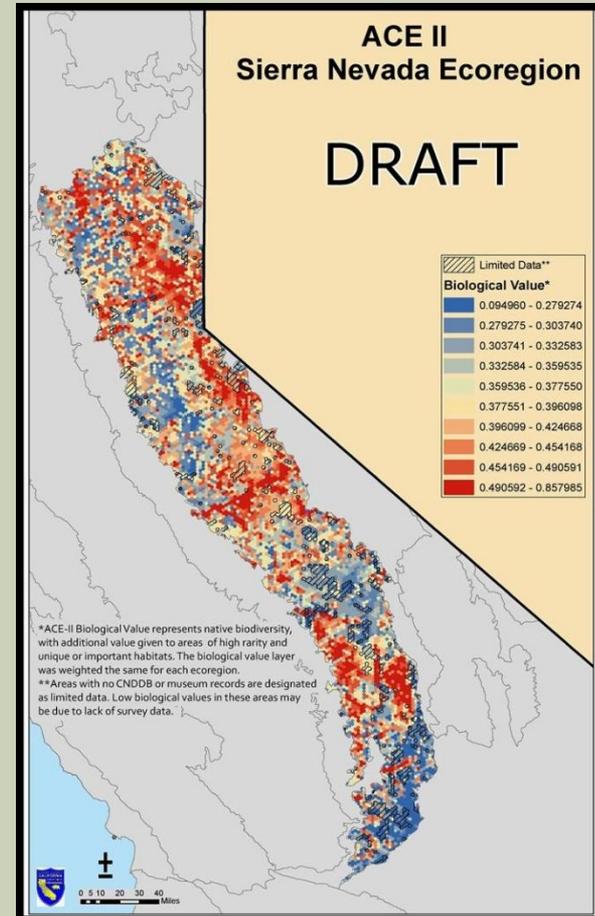
OBJECTIVES

- The update will use an ecosystem approach
- The update will identify initiatives needed to conserve species and habitats on an ecoregional and watershed basis
- Establish the priority of enhancing partnerships and increasing public awareness
- Incorporate strategies for climate change adaptation



COMPANION PLANS

- Forests and Rangelands
- Water Use and Management
- Land Use Planning
- Transportation Planning
- Agriculture
- Tribal Lands
- Consumptive User
- Energy Development



SHARED PURPOSE

- Maintaining habitat attributes (snags, dwd, nest trees)
- Creating watercourse buffers
- Compatible surveys methods and monitoring, sharing data
- Reduce edge effects-habitat fragmentation
- Minimize cumulative effects
- Understand and apply seasonal restrictions
- Improve or maintain corridors
- Control invasive species
- Reduce depredation and nuisance wildlife
- Minimize erosion and pollution
- Reduce risk of wildfires
- Minimize monoculture, loss of diverse age structure

TIMELINE

Task Name	Start Date	End Date	2012				2013				2014				2015				2016				
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Grants	01/02/12	12/31/15	Grants																Grants				
Contracts	01/02/12	02/27/15	Contracts																				
Training	03/01/12	01/31/13	Training																				
Data Development	01/02/12	12/31/12	Data Development																				
Ecoregional Team Development	03/01/12	10/15/12	Ecoregional Team Development																				
Target Criteria	05/01/12	11/01/12	Target Criteria																				
Threats and Stressors	04/29/12	01/01/13	Threats and Stressors																				
Ecoregional Workshops	09/24/12	04/05/13	Ecoregional Workshops																				
Data Compilation	12/03/12	04/30/13	Data Compilation																				
Statewide Strategies	04/15/13	07/31/13	Statewide Strategies																				
Conservation Strategies	04/15/13	06/30/14	Conservation Strategies																				
Public Scoping I	05/20/13	07/19/13	Public Scoping I																				
Public Review I	08/18/14	08/27/14	Public Review I																				
Public Review II	07/01/15	07/30/15	Public Review II																				
Plan Development	07/01/13	07/01/15	Plan Development																				
Public Outreach	08/01/12	07/30/15	Public Outreach																				
Companion Plans	07/01/14	07/01/15	Companion Plans																				
Oversight	01/01/12	07/31/15	Oversight																				
Stakeholder Committee Meetings (Schedule quarterly or as needed)	07/01/13	08/02/13	Stakeholder Committee Meetings (Schedule quarterly or as needed)																				

