



California State and California Department of Fish and Game Climate Adaptation Strategy (CAS)

*November 3, 2010
National Conservation
Training center,
Shepherdstown, WV*

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Climate Change: California State Government



California CAS

- **Goals**
 - **Establish consistent climate adaptation risk and assessment standards**
 - **Develop policy guidance for implementing agencies**
 - **Align implementation priorities**
- **“Bottom-up” approach to development**
 - **Dependent upon implementing entities for completion**
 - **Utilizes broad stakeholder approach**
- **Framework for Implementation**
 - **Guides creation of specific objectives**

California CAS Elements

- **Policy and basis for adaptation strategy**
- **Description of expected impacts**
 - **State – specific = *Department Adaptation Strategy***
 - **Sector – specific = *Wildlife and natural lanscapes***
- **Near-term Adaptation Approach**
 - **1 – 3 year action horizon**
- **Longer-term Adaptation Approach**
 - **Beyond 3 years**

Benefits of California CAS

- **Improved Coordination**
 - Increased awareness
 - Platform for planning and funding
 - State and local government program alignment
- **Support sustainable communities actions**
 - Recent sustainable communities legislation
 - Linking and elevating local government adaptation actions
- **Framework for state and federal investments**
 - \$20-\$278 billion by 2050
 - Estimated \$7.3-\$46.6 billion annually without action

Some CAS Actions...

- **Water**
 - Expend water storage and conjunctive management of surface and groundwater resources
- **Oceans**
 - Complete a Statewide Sea Level Rise Vulnerability Assessment and update every five years
- **Infrastructure**
 - Develop a detailed climate variability assessment and adaptation plan for CA's transportation infrastructure
- **Public Health**
 - Improve public health preparedness and emergency response
- **Working Landscapes**
 - Develop technical assistance, BMP's for agrobiodiversity and bio-energy
- **Wildlife and Natural Landscapes**
 - Create a large-scale well connected, sustainable system of conservation areas across the State

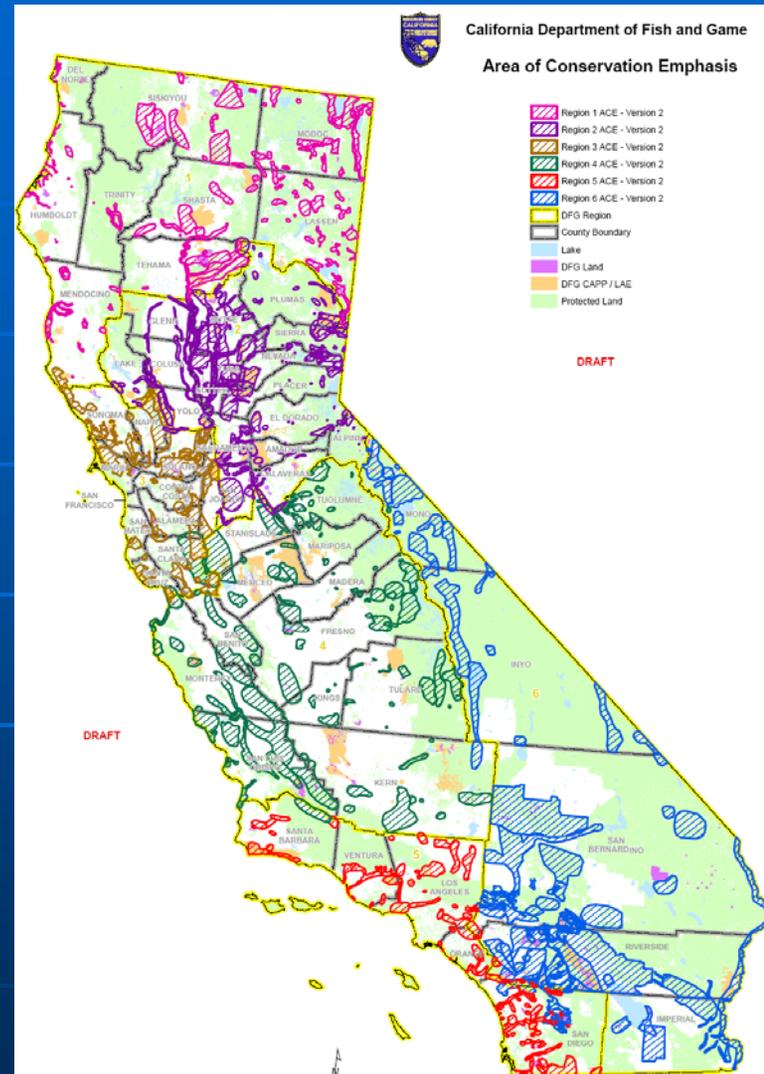
CDFG Climate Change Adaptation Strategy

- Uses California CAS as a framework
- Internal climate change task force
- Mitigation and Adaptation
- Integration with other Department functions
- Significant Stakeholder involvement
- Policy, process, and management actions

CDFG Climate Adaptation Strategy: Key Elements

Highly Connected
System of Reserves

- Connectivity
- Conservation Investments
- Ecosystem Services



CDFG Climate Adaptation Strategy: Key Elements

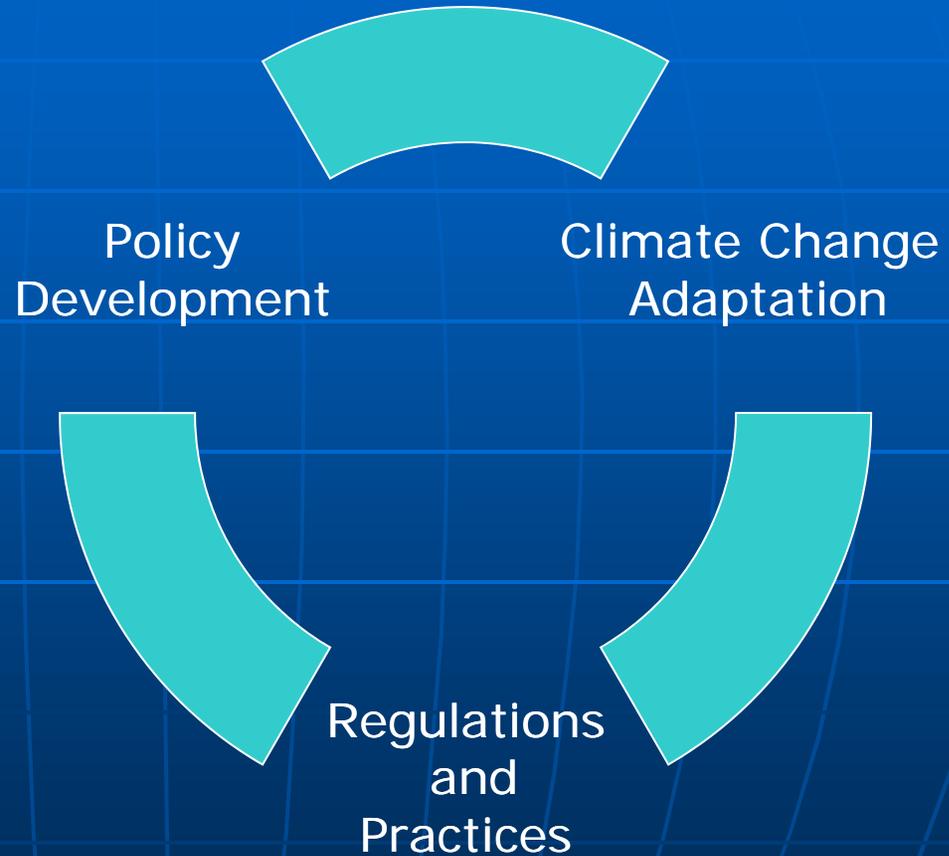
Habitat Management and Restoration

- Grant Programs
- DFG Lands
- Partnerships



CDFG Climate Adaptation Strategy: Key Elements

Integrate
Climate Change
Adaptation into
Policy and
Regulation:
Example NCCP



CDFG Climate Adaptation Strategy: Key Elements

Science and
Research
Support



Vulnerability
Assessment



Essential
Connectivity

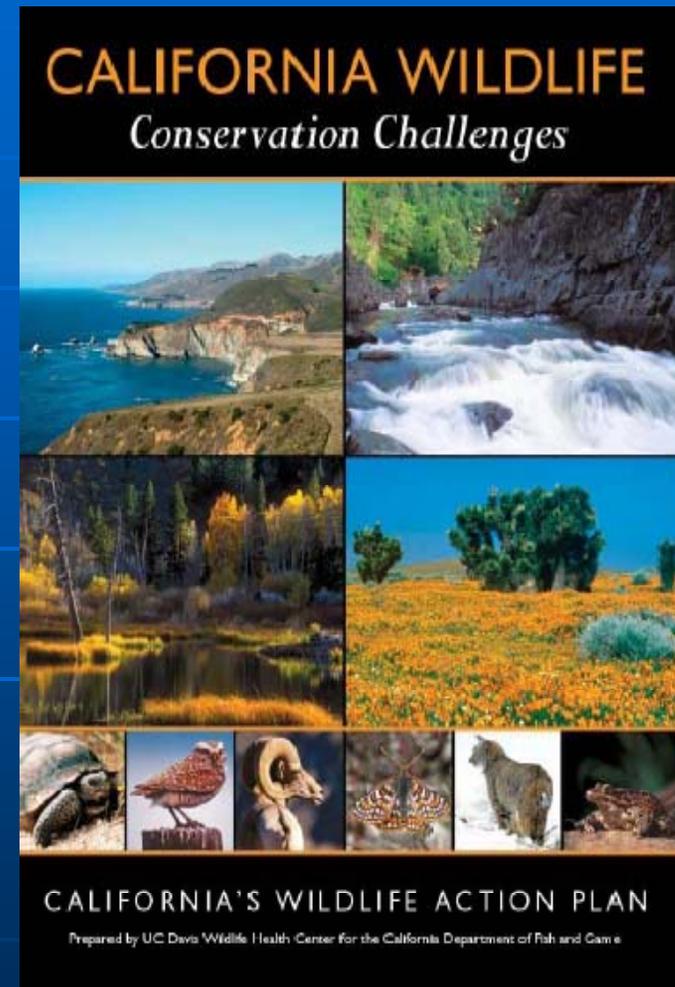


Multi-Sector
Research Efforts

CDFG Climate Adaptation Strategy: Key Elements

Manage Declining
and Vulnerable
Species and
Landscapes for
Change

- Nexus between
species and
landscapes



Supporting Synthesis

- **State Water Plan and Adaptation Strategy**
 - Completed mid-2010
- **Fire and Rangeland Assessment Update**
 - Completed early 2010
- **California Wildlife Action Plan**
 - Revision began mid-2010
- **Statewide Essential Connectivity Assessment**
 - Completed mid-2010
- **Ocean Protection Council**
 - Sea level rise assessment

Thank You

- **California Governors Climate Change Initiatives**
 - www.climatechange.ca.gov/adaptation
- **State Climate Change Adaptation Strategy**
 - <http://www.climatechange.ca.gov/adaptation>
- **Biodiversity (Fish and Game) Adaptation Strategy**
 - <http://www.dfg.ca.gov/climatechange/activities.html>
- **Water Resources Plan and White Paper**
 - <http://www.waterplan.water.ca.gov/climate/index.cfm>
- **Ocean Protection Council – Sea Level Rise**
 - <http://www.opc.ca.gov/2010/07/coastal-and-ocean-climate-action-team-co-cat/>