

# Appendix G Climate Adaptation Strategies Cross-Reference Guide

California's climate adaptation strategies, described in Section 2.5, are also consistent with the strategic framework provided in the National Fish, Wildlife, and Plants Climate Adaptation Strategy (National Fish, Wildlife, and Plants Climate Adaptation Partnership 2012). Tables G-1 (Ecoregion Targets) and G-2 (Hydrologic Unit Targets) identify how the SWAP 2015 conservation strategies outlined in Chapters 4 and 5 align with these state and federal strategies and, thus, achieve important climate adaptation co-benefits.

## Reference

National Fish, Wildlife and Plants Climate Adaptation Partnership. 2012. National Fish, Wildlife and Plants Climate Adaptation Strategy. Association of Fish and Wildlife Agencies, Council on Environmental Quality, Great Lakes Indian Fish and Wildlife Commission, National Oceanic and Atmospheric Administration, and U.S. Fish and Wildlife Service. Washington, DC.

Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																										
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C1.2: Implement adaptive management	C2: Enhance biodiversity monitoring	C3.1: Promote nature-based adaptation solutions	C3.2: Prioritization tools for conservation activities	C4.1: Habitat mapping	C4.5: Identify emissions reduction opportunities	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.1: Identify connectivity	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N3.4: Build funding capacity	N4.2: Employ decision-support tools	N5.1: Identify research gaps	N5.2: Conduct research	N6.1: Increase public awareness	N6.3: Coordinate communication	N7.2: Reverse habitat degradation	N7.3: Manage invasive species	
		<b>BAY DELTA AND CENTRAL COAST PROVINCE</b>																										
<b>Central California Coast Ecoregion</b>																												
<b>California Grassland, Vernal Pools, and Flowerfields</b>																												
Acquire, conserve, and manage habitat for SGCN that inhabit grassland habitats by finalizing draft conservation plans and implementing completed NCCPs, HCPs, and Conservation Strategies and other opportunities.	Land Acquisition/ Easement/Lease							X	X							X	X	X						X	X	X		X
Coordinate with fire agencies and local landowners to develop and implement fire management BMPs in grassland habitats.	Partner Engagement																	X								X		
Coordinate with Caltrans and county transportation agencies to use information on high-priority wildlife corridors in the design of wildlife-friendly transportation corridors.	Partner Engagement																	X								X		
Develop statewide strategies on renewable energy development location siting; identify renewable energy development zones and obtain their approval by the Renewable Energy Action Team (REAT).	Land Use Planning				X			X										X							X			

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Identify and conduct research on high-priority study questions for grassland habitat/conservation areas; conduct research to inform coordination with Caltrans and county transportation agencies on wildlife-friendly transportation corridors; implement and fund monitoring and research components of completed and draft NCCPs, HCPs, and Conservation Strategies.	Data Collection and Analysis									X						X						X					
Manage invasive species, with focus on controlling or eradicating them in grassland habitats in the Central California Coast Ecoregion.	Direct Management														X												X
Provide input on project planning and decision making processes; ensure that city and county planning departments consider the conservation of grassland and vernal pool habitat.	Land Use Planning																					X	X				
<b>Coastal Sage Scrub; Northwest Coast Cliff and Outcrop; Coastal Dune and Bluff Scrub; North Coast Deciduous Scrub and Terrace Prairie</b>		X	X	X				X	X	X		X		X	X	X	X	X				X	X	X			X
Collect biological and ecological data to address key information gaps on SGCN, habitats, and pressures.	Data Collection and Analysis			X						X						X						X					

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		Conduct direct resource management.	Direct Management		X																								
Designate conservation areas with emphasis on sites or landscapes that have unique and important value to wildlife.	Land Acquisition/ Easement/Lease												X																
Develop or influence law and policy that addresses vehicle emissions, timber harvest cumulative impacts, critical habitat, and marine species with ranges that overlap jurisdictional boundaries.	Law and Policy																		X										
Develop and implement management plans.	Management Planning		X															X											
Implement environmental review, with focus on the following: non-conservation oriented policies; projects and plans to help ensure impacts to wildlife are minimized and benefits maximized; infrastructure development projects to ensure they are designed and sited to avoid impacts on species and habitat; state highway plans; forest management plans; and plans for transmission corridor siting.	Environmental Review									X								X							X	X			
Establish and engage in partner relationships.	Partner Engagement								X									X											

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Protect priority habitats through fee title acquisition, permanent conservation easement, or other means; purchase land in a corridor connecting two protected areas to provide connectivity of habitat.	Land Acquisition/ Easement/Lease	X												X													
Provide input to land use planning decisions.	Land Use Planning														X												
<b>American Southwest Riparian Forest and Woodland</b>		<b>X</b>			<b>X</b>				<b>X</b>					<b>X</b>	<b>X</b>									<b>X</b>	<b>X</b>		<b>X</b>
Acquire, conserve and manage habitat for SGCN that inhabit riparian forest and woodland habitats by finalizing draft conservation plans and implementing completed NCCPs, HCPs, and Conservation Strategies and other opportunities.	Land Acquisition/ Easement/Lease	X												X													
Develop grazing BMPs.	Direct Management				X										X										X		
Develop riparian buffers along major rivers and streams.	Direct Management			X	X																						
Implement education and outreach to the public and local agencies regarding the value of riparian habitat, development of riparian buffers along major rivers and streams, and reducing encroachment of crops into riparian buffers.	Outreach and Education								X														X				

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		Improve road maintenance on county and state roads to reduce sediment impacts to stream habitats.	Direct Management															X											
Manage dams and other barriers to allow for fish passage.	Direct Management	X													X														
Manage invasive species.	Direct Management																											X	
<b>Central California Coast Ranges Ecoregion</b>																													
<b>California Grassland, Vernal Pools, and Flowerfields</b>																													
Acquire, conserve, and manage habitat for SGCN that inhabit grassland habitats by finalizing draft conservation plans and implementing completed NCCPs, HCPs, and Conservation Strategies and other opportunities.	Land Acquisition/ Easement/Lease				X						X					X	X	X							X		X	X	
Coordinate with fire agencies and local landowners to develop and implement fire management BMPs in grassland habitats.	Partner Engagement															X										X			
Coordinate with Caltrans and county transportation agencies to use information on high-priority wildlife corridors in the design of wildlife-friendly transportation corridors.	Partner Engagement																	X								X			

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Develop statewide strategies on renewable energy development location siting; identify renewable energy development zones and obtain their approval by the Renewable Energy Action Team (REAT).	Land Use Planning				X			X									X								X	
Identify and conduct research on high-priority study questions for grassland habitat/conservation areas; conduct research to inform coordination with Caltrans and county transportation agencies on wildlife-friendly transportation corridors; implement and fund monitoring and research components of completed and draft NCCPs, HCPs, and Conservation Strategies.	Data Collection and Analysis									X						X						X				
Manage invasive species, with focus on controlling or eradicating them in grassland habitats in the Central California Coast Ranges Ecoregion.	Direct Management														X											X
Provide input on project planning and decision making processes; ensure that city and county planning departments consider the conservation of grassland and vernal pool habitat.	Land Use Planning																					X	X			

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<b>American Southwest Riparian Forest and Woodland</b>		X			X				X					X	X								X				X	
Acquire, conserve and manage habitat for SGCN that inhabit riparian forest and woodland habitats by finalizing draft conservation plans and implementing completed NCCPs, HCPs, and Conservation Strategies and other opportunities.	Land Acquisition/ Easement/Lease	X												X														
Develop grazing BMPs.	Direct Management				X										X										X			
Develop riparian buffers along major rivers and streams.	Direct Management			X	X																							
Implement education and outreach to the public and local agencies regarding the value of riparian habitat, development of riparian buffers along major rivers and streams, and reducing encroachment of crops into riparian buffers.	Outreach and Education								X															X				
Improve road maintenance on county and state roads to reduce sediment impacts to stream habitats.	Direct Management														X													
Manage dams and other barriers to allow for fish passage.	Direct Management	X												X														
Manage invasive species.	Direct Management																										X	



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<b>CASCADES AND MODOC PLATEAU PROVINCE</b>																											
<b>Modoc Plateau Ecoregion</b>																											
<b>Big Sagebrush Scrub; Great Basin Dwarf Sagebrush Scrub; Great Basin Upland Scrub</b>						X		X	X		X		X		X	X	X	X				X	X	X	X	X	X
Advocate for wildlife-friendly fire management.	Outreach and Education																X										
Conduct controlled burns for fire/fuel reduction and habitat management in conifer/sagebrush areas (like those encroached by pinyon-juniper).	Direct Management																X					X					
Conduct research (data management) on restoration to inform prioritization of potential restoration areas.	Data Collection and Analysis					X					X																
Develop BMPs for improved resource conservation.	Law and Policy														X												
Implement habitat restoration and enhancement.	Direct Management												X														
Implement management partnership/coordination.	Partner Engagement																X										
Manage invasive species.	Direct Management																										X
Obtain funding for resource management.	Economic Incentives															X									X		

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		Provide economic incentives for improved resource management.	Economic Incentives																	X						X		
Provide education and outreach for the ranching public and CDFW staff; educate staff on rangeland science; and educate ranching public on the availability of existing BMPs, and the need and status of implementing those BMPs.	Outreach and Education									X														X				
Provide input on grazing management plans, including review and comment on California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documents for grazing management plans to help slow or reverse habitat degradation because of the negative impacts of certain grazing practices.	Management Planning																									X		
<b>Northwestern Basin and Range Ecoregion</b>																												
<b>Great Basin Pinyon-Juniper Woodland</b>			X			X			X	X							X	X	X				X	X		X	X	X
Conduct research on climate change.	Data Collection and Analysis				X					X							X					X	X					

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Identify highest priority areas for restoration and rehabilitation to lower or eliminate fire risk; conduct controlled burns and managed thinning in areas of post-settlement (1860) pinyon-juniper and juniper expansion or old growth stands with high canopy cover and fire risk; protect old growth juniper and pinyon-juniper; and continue implementation of Bi-state Action Plan.	Direct Management		X																							X	
Identify highest priority areas for restoration and rehabilitation to protect from annual grass or weed invasion.	Direct Management		X																								X
Maintain partnerships through the Bi-state Action Plan, BLM, USFS, NPS, and U.S. Geological Service (USGS) to help coordinate data collection and implement a management plan.	Partner Engagement							X														X					
<b>CASCADES AND MODOC PLATEAU PROVINCE</b>																											
<b>Western Upland Grasslands</b>																											
Advocate for laws and policies by influencing land use policies and coordinating with federal agencies to reduce grassland conversion.	Law and Policy		X									X						X	X		X		X			X	X

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		Baseline data collection and analysis on effect of natural fire on grasslands.	Data Collection and Analysis																					X			
Manage grazing.	Direct Management																									X	
Manage invasive species.	Direct Management	X																									X
Protect and restore land through acquisitions or conservation easements.	Land Acquisition /Easement/Lease											X															
Provide economic incentives by providing restoration grants, collaborating with federal agencies to identify opportunities to implement joint conservation actions, develop a habitat conservation plan or voluntary local program, or implement candidate conservation agreement to protect candidate species that are vulnerable.	Economic Incentives																			X							
Provide input on local planning regarding the conservation of natural resources.	Land Use Planning																								X		
<b>North Coastal Mixed Evergreen and Montane Conifer Forests</b>										X	X					X	X		X				X	X			
Advocate for laws and policies that protect natural resources.	Law and Policy																		X								

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Conduct research (data management) to identify areas with restoration potential to allow prioritization for protection and restoration. Work with other agencies doing restoration in sagebrush steppe habitat throughout the region. Map vegetation following standard protocol and fill information gaps into what has already been mapped. Prioritize for restoration areas of encroachment that have not crossed over to juniper woodland.	Data Collection and Analysis									X						X							X				
Develop management plans to improve existing fire management plans and identify high value wildlife habitat.	Management Planning Partner Engagement							X							X		X										

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		Engage in decision-making process, through cooperation with federal agencies and private landowners on where controlled burns and forest thinning would be most beneficial to wildlife. Coordinate with state and federal agencies, tribal entities, the non-governmental organization community and other partners to establish a decision-making process to achieve shared objectives and broader coordination across overlapping areas.	Law and Policy Partner Engagement							X									X		X						X	
Protect land through acquisition and conservation easements.	Land Acquisition/ Easement/Lease											X																
Provide outreach and education for the conservation of natural resources.	Outreach and Education								X															X				
<b>CENTRAL VALLEY AND SIERRA NEVADA PROVINCE</b>																												
<b>Great Valley Ecoregion</b>																												
<b>American Southwest Riparian Forest and Woodland</b>		X			X				X	X		X				X	X						X	X				X
Acquire property and/or easements, including protection of land or water real property or rights through conservation easement.	Land Acquisition/ Easement/Lease	X			X							X																

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Acquire water rights focused on improving in-stream flow for fish and riparian habitat.	Land Acquisition/ Easement/Lease	X			X							X															
Conduct research focused on informing the development of new or updating of existing best management practices (BMPs) for invasive species, grazing, and water flow.	Data Collection and Analysis									X						X						X					
Develop and implement Habitat Conservation Plans (HCPs) (Central Valley Flood Protection Plan, South Sacramento HCP, San Joaquin County Multi-Species Habitat Conservation and Open Space Plan, Bay Delta Conservation Plan [BDCP], Yolo, Solano, Butte, and Yuba-Sutter HCPs).	Management Planning														X												
Improve effective law enforcement focused on: complying with water rights and Section 1600 agreements, eliminating illegal water diversions, and increasing Law Enforcement Division (LED) staffing levels.	Law and Policy																	X									
Manage invasive species.	Direct Management																								X	X	
Manage water flows.	Direct Management														X												

Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																										
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C1.2: Implement adaptive management	C2: Enhance biodiversity monitoring	C3.1: Promote nature-based adaptation solutions	C3.2: Prioritization tools for conservation activities	C4.1: Habitat mapping	C4.5: Identify emissions reduction opportunities	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.1: Identify connectivity	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N3.4: Build funding capacity	N4.2: Employ decision-support tools	N5.1: Identify research gaps	N5.2: Conduct research	N6.1: Increase public awareness	N6.3: Coordinate communication	N7.2: Reverse habitat degradation	N7.3: Manage invasive species	
		Provide education and outreach for the conservation of natural resources.	Outreach and Education								X															X		
Provide input on local planning ("Leading or participating in land use planning for rural, urban, or agricultural lands: e.g., Provide input on local land use plans; Develop county-wide zoning plans; Participate in workgroup regarding low impact development siting").	Management Planning																	X								X		
<b>Freshwater Marsh</b>									X			X				X			X	X					X			
Advocate for laws and policies.	Law and Policy																		X									
Development management plans.	Management Planning															X												
Provide economic incentives for improved resource management.	Economic Incentives																			X								
Provide outreach and education.	Outreach and Education								X																X			
Purchase land and conservation easements.	Land Acquisition/ Easement/Lease											X																



**Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies**

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<b>Sierra Nevada Ecoregion</b>																												
<b>Alpine Vegetation</b>																												
Develop economic incentives to reduce the impacts of climate change within California.	Economic Incentives			X	X		X	X	X							X	X							X	X		X	X
Develop or update management plans to integrate the effects of climate change.	Management Planning														X													
Engage urban citizens on climate change; expand conservation education programs (e.g., in grade schools) to include climate change.	Outreach and Education								X																X			
Establish partnerships to co-monitor alpine vegetation habitat on state and federal lands.	Partner Engagement							X									X											
Gather more information on alpine vegetation habitat, particularly on the physical and biological variables affected by climate change.	Data Collection and Analysis			X						X						X							X					
Manage grazing and invasive species, remove trails, restrict grazing and pack animal use of subalpine and alpine meadows on public lands, remove trail and campground use away from subalpine and alpine meadows, and treat and remove invasive species.	Direct Management Management Planning														X													X

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		C1.1: Improve connectivity	C1.2: Implement adaptive management	C2: Enhance biodiversity monitoring	C3.1: Promote nature-based adaptation solutions	C3.2: Prioritization tools for conservation activities	C4.1: Habitat mapping	C4.5: Identify emissions reduction opportunities	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.1: Identify connectivity	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N3.4: Build funding capacity	N4.2: Employ decision-support tools	N5.1: Identify research gaps	N5.2: Conduct research	N6.1: Increase public awareness	N6.3: Coordinate communication	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
Provide training on science-based applications and tools for climate change and natural resources management.	Training and Technical Assistance				X																						
Restore subalpine and alpine meadows, including restoration/enhancement of degraded habitats, monitoring populations, and removing barriers to species movement.	Direct Management																									X	
<b>North Coastal Mixed Evergreen and Montane Conifer Forests</b>				X					X	X		X			X	X	X	X				X	X				
Advocate for laws and policies; coordinate with agencies to allow fires to burn when possible.	Law and Policy																	X									
Conduct research regarding effective target management.	Data Collection and Analysis			X						X						X						X					
Develop management plans and improve existing fire management plans.	Management Planning														X												
Engage in decision-making process to achieve shared objectives and broader coordination across overlapping area; cooperate with federal agencies and private landowners on where controlled burns and forest thinning would be most beneficial to wildlife.	Law and Policy																X										

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Protect land through acquisition and conservation easements, including increasing the amount of key conifer areas protected through purchase or conservation easement. Key conifer areas include old-growth forest, watercourse zones, and nest sites.	Land Acquisition/ Easement/Lease											X															
Provide education and outreach for the conservation of natural resources.	Outreach and Education								X															X			
<b>Pacific Northwest Subalpine Forest</b>		X	X		X		X	X	X	X			X		X	X	X					X	X	X	X		
Collect data on climate-related impacts to species and habitats in the red fir/subalpine conifer zone, to better predict future distribution and viability and inform land acquisition and other strategies.	Data Collection and Analysis			X						X						X						X	X				
Collect data to evaluate effects of fuels treatments in the red fir zone, and whether treatments can partly offset climate-related increases in fire severity in the red fir zone.	Data Collection and Analysis	X																				X					
Develop economic incentives to reduce greenhouse gas emissions in California.	Economic Incentives						X																				

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		Develop or update management plans to integrate the effects of climate change.	Management Planning		X													X										
Establish partnership to co-monitor target habitat on state and federal lands.	Partner Engagement							X																				
Implement fuels treatments in red fir forest, if determined to be effective (see "Data Collection and Analysis").	Direct Management												X															
Provide input on local land use plans to incorporate climate change; provide local assistance grant funds for participation in general plan updates favoring natural resource conservation and climate change.	Land Use Planning									X						X												
Provide science-based applications and tools for climate change and natural resources management.	Training and Technical Assistance				X																							
Review projects for potential increases in greenhouse gas emissions; require mitigation as needed.	Environmental Review						X		X								X						X	X				

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<b>Wet Mountain Meadow; Western Upland Grasslands</b>									X	X		X	X		X	X						X	X		X	X	
Enhance habitat: improve water quality and temperature, coordinate water storage and timing of release to improve meadow hydrology, improve surface water recharge, reduce erosion and bank cutting, restore meadow hydrology, and improve resiliency of meadows to flood events.	Direct Management												X													X	
Gather and analyze data on wet meadows and wildlife: establish baseline inventory of wet meadows and research ecosystem services of wet meadows (e.g., carbon sequestration).	Data Collection and Analysis									X						X						X					
Implement grazing practices that benefit meadow ecosystems (conduct managed grazing).	Management Planning																									X	
Manage invasive species.	Direct Management																										X
Protect land through acquisition and conservation easements, with emphasis on restoring and protecting degraded wet meadow habitat and conserving high-quality wet meadow.	Land Acquisition/ Easement/Lease											X															

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Provide education and outreach to broad resource users on multiple-use policy and educate the public on the beneficial use of fire.	Outreach and Education								X														X					
Provide input on grazing management plans.	Management Planning														X													
Restore meadows impacted by roads and railroads: reduce sediment from existing and abandoned roads from entering meadows, restore hydrology altered by legacy roads and railroads, develop BMPs for road maintenance, and reduce the overall presence of roads and railroads in meadows (new and existing).	Direct Management											X																
<b>Sierra Nevada Foothills Ecoregion</b>																												
<b>California Foothill and Valley Forests and Woodlands</b>																												
Conduct ecologically sound controlled burns on CDFW lands.	Direct Management							X	X									X		X				X		X	X	
Conduct demonstration management, including providing public demonstrations of successful BMPs and scientifically documenting environmental change from implementation of BMPs.	Direct Management Outreach and Education								X														X					

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Establish partnership: develop partnerships with agencies and organizations to enhance opportunities (currently BLM, RCDs, UCD, Audubon, and Blue Ridge Berryessa Partnership [BRBP]).	Partner Engagement							X									X											
Protect land through conservation easements.	Land Acquisition/ Easement/Lease											X																
Provide education and outreach, including introduce landowners and leasee to new or existing BMPs for grazing; inform public of incentive programs available to them; educate recreation focused landowners on wildlife-BMP's; and keep CDFW staff current on relevant science (e.g., on restoration techniques, science).	Outreach and Education								X															X				
Provide economic incentives to landowners for managing grazing at to maintain appropriate levels of residual dry matter.	Economic Incentives																		X									
Purchase and provide long-term conservation of land.	Land Acquisition/ Easement/Lease											X																

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		<b>Chaparral; Desert Transition Chaparral; Montane Chaparral; California Foothill and Coastal Rock Outcrop Vegetation</b>			X					X	X		X				X	X	X				X	X				
Collect and analyze data regarding the target.	Data Collection and Analysis		X							X							X					X	X					
Conduct direct resource management.	Direct Management		X																									X
Engage conservation partners, including state and federal agencies, tribal governments, the non-governmental organization (NGO) community, and other partners to achieve shared objectives and broader coordination across overlapping areas. Establish partnership to co-monitoring species/habitats on federally managed lands. Establish decision-making processes with other public and private entities to determine or implement strategies. Convene an advisory committee to assist with implementation of strategies.	Partner Engagement								X									X										
Protect land through acquisition, easement, or lease.	Land Acquisition/Easement/Lease											X																



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Work with partners on the development of large landscape conservation planning. Develop or update management plans to integrate the effects of climate change. Development of management plans for species, habitats and natural processes. Develop a management plan for SGCN or its habitat. Reintroduction, relocation, or stocking of native animals or plants to an area where they can better adapt. Translocate/breed in captivity a SGCN to establish new populations in suitable habitat. Restore SGCN to historically occupied habitats.	Management Planning														X														
<b>DESERTS PROVINCE</b>																													
<b>Colorado Desert Ecoregion</b>																													
<b>Desert Wash Woodland and Scrub</b>																													
Develop BMPs for roads and railroads.	Land Use Planning									X						X	X												
Gather biological data and conduct research on SGCN and response to disturbance.	Data Collection and Analysis									X							X						X						

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		Partner for joint advocacy, with focus on conservation of SGCNs that use railroad right-of-ways (ROW), and development of BMPs for ROW maintenance activities.	Partner Engagement																X									
Provide education, including to BLM and USFWS on impacts from operations and maintenance activities within railroad right-of-ways.	Outreach and Education																X											
<b>Sparsely Vegetated Desert Dune</b>			X	X					X							X		X						X				
Collect data on plant community and SGCN status within ecoregion through range-wide surveys, climate change studies, and monitoring invasive species population trends.	Data Collection and Analysis			X																			X					
Continue to provide input on local land use plans.	Land Use Planning															X												
Maintain partnership presence in the planning process of HCPs to ensure the conservation of this target.	Partner Engagement								X									X										

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Support implementation of existing habitat conservation plans (HCPs) to protect, restore, or enhance those areas of target habitat that are prioritized for such or have been degraded by invasive species or OHV; and enhance enforcement of existing HCPs, including illegal OHV use. Existing HCPs include Imperial Sand Dunes RAMP, Heber Dunes SVRA General Plan, Lower Colorado River MSCP, San Diego East County MSCP, Coachella Valley MSHCP, IID, and the DRECP.	Direct Management														X												
Support the development and implementation of ongoing/existing management plans.	Management Planning		X												X												
<b>Mojave Desert Ecoregion</b>																											
<b>Shadscale-Saltbush Scrub</b>																											
Develop and implement an outreach program on the impacts of invasive species.	Outreach and Education								X	X	X		X			X	X	X						X	X		
Develop and implement management plans to guide maintaining or restoring connectivity for alkali desert scrub and SGCN.	Management Planning														X												

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Establish and develop co-management partnerships, use partnerships with desert land managers to manage invasive species on conserved lands, and integrate climate change considerations into management plans for species and habitats.	Partner Engagement							X							X		X										
Establish joint partnerships with desert land managers, including local governments such as the Town of Apple Valley, particularly to manage invasive species on conserved lands.	Partner Engagement							X							X		X										
Gather and analyze data, particularly on the distribution of invasive species and their impacts on shadscale-saltbush scrub.	Data Collection and Analysis									X							X					X					
Gather data and conduct research to better understand alkali desert scrub ecology (e.g., population size, distribution, habitat relationships), pressures, and climate change effects; and collect and analyze baseline assessment information for alkali desert scrub.	Data Collection and Analysis									X							X					X					

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Partner for joint advocacy, increase political awareness for conservation of alkali desert scrub in the Mojave ecoregion through education and outreach, and secure additional funding through grants or legislation; and ensure renewable energy development is consistent with DRECP conservation strategies.	Partner Engagement							X									X										
Protect high-quality alkali desert scrub habitat through acquisition and easements.	Land Acquisition/ Easement/Lease										X																
Provide outreach and education on resource conservation practices.	Outreach and Education								X															X			
Provide training on invasive species control and management.	Training and Technical Assistance															X											X

**Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies**

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		C1.1: Improve connectivity	C1.2: Implement adaptive management	C2: Enhance biodiversity monitoring	C3.1: Promote nature-based adaptation solutions	C3.2: Prioritization tools for conservation activities	C4.1: Habitat mapping	C4.5: Identify emissions reduction opportunities	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.1: Identify connectivity	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N3.4: Build funding capacity	N4.2: Employ decision-support tools	N5.1: Identify research gaps	N5.2: Conduct research	N6.1: Increase public awareness	N6.3: Coordinate communication	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
<b>Mono Ecoregion</b>																											
<b>Great Basin Pinyon-Juniper Woodland</b>																											
Identify highest priority areas and manage for restoration and rehabilitation to lower or eliminate fire risk: conduct controlled burns and managed thinning in areas of post-settlement (1860) pinyon-juniper and juniper expansion or old growth stands with high canopy cover and fire risk; protect old growth pinyon-juniper and juniper; and continue implementation of Bi-State Action Plan.	Direct Management		X		X			X	X							X	X				X	X				X	X
Identify highest priority areas for restoration and rehabilitation to manage and protect from annual grass and weed invasion.	Direct Management		X																								X
Maintain partnerships through the Bi-state Action Plan, BLM, USFS, NPS, and USGS to help coordinate data collection and implement management plan.	Partner Engagement							X									X										
Research impacts of climate change on pinyon-juniper woodland viability and distribution.	Data Collection and Analysis				X				X							X					X	X					

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<b>Big Sagebrush Scrub</b>								X		X		X			X	X	X		X			X					X
Establish partnerships, coordinate efforts, and identify and combine funding sources with other agency funding, for protecting, restoring, and enhancing sagebrush habitat.	Partner Engagement							X									X										
Implement resource management to promote healthy sagebrush ecosystems through controlled burns (where appropriate and not in conflict with sage-grouse conservation), control of invasive species, and removal of pinyon-juniper.	Direct Management														X												X
Prioritize and coordinate sage-grouse research efforts with landowners and land managers, and monitor pinyon-juniper and cheatgrass invasions per the 2012 Bi-State Sage Grouse Action Plan.	Data Collection and Analysis									X						X						X					
Protect land through acquisition and easements. Identify land for protection of high-quality sagebrush habitat within the Desert Creek/Fales, Bodie, and South Mono sage-grouse population management units (PMUs) within the Bi-State DPS.	Land Acquisition/ Easement/Lease											X															

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		Provide economic incentives and purchase leases, acquisitions, or conservation easements on important sage grouse habitat with various funding sources.	Economic Incentives																			X						
<b>Sonoran Desert Ecoregion</b>																												
<b>Mojave and Sonoran Desert Scrub</b>																												
Conserve lands to maintain long-term viability of SGCN.	Land Acquisition/ Easement/Lease							X				X			X	X	X											
Develop HCP, NCCP, and management plans, with an emphasis on minimizing impacts of housing and urban growth.	Management Planning														X													
Establish co-management partnership.	Partner Engagement							X										X										
Partner for joint advocacy, increase political awareness for conservation of desert scrub in the Sonoran Desert ecoregion, secure additional funding through grants or legislation, and advocate for development consistent with strategy.	Outreach and Education Partner Engagement							X									X											



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Provide input on project planning and decision making process, and conserve stream habitats and flows through participation in the planning and decision making process.	Land Use Planning																X											
Provide training to agency staff on renewable energy issues, including technology, relevant research, ecological impacts, and conservation strategies.	Training and Technical Assistance															X												
<b>Southeast Great Basin Ecoregion</b>																												
<b>High Desert Wash and "Rangeland" Scrub, Great Basin Upland Scrub</b>																												
Comment on and amend plans.	Management Planning				X			X	X						X	X					X	X						X
Maintain and enhance partnerships, particularly with NPS; form a collaborative group for data collection and research, especially with BLM.	Partner Engagement							X													X							
Monitor and map invasive species, and study fire and climate-related effects on target habitats.	Data Collection and Analysis				X					X						X						X						
Restore and protect priority areas: identify highest priority areas for restoration, rehabilitation, and protection from fire, invasive species, or wild burros.	Direct Management				X																							X

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		<b>American Southwest Riparian Forest and Woodland</b>								X		X							X	X					X		
Engage in decision-making process, and share information and agency priorities.	Land Use Planning							X										X									
Establish co-management partnership to conserve target habitat.	Partner Engagement							X										X									
Identify critical or sensitive riparian habitats in areas that may require special protections.	Data Collection and Analysis									X							X						X				
Manage invasive species: control invasive and problematic vegetation, control invasive mammals (feral horse and burro), and prevent degradation of riparian habitat and springs from feral horses and burros.	Direct Management																										X
<b>NORTH COAST AND KLAMATH PROVINCE</b>																											
<b>Klamath Ecoregion</b>																											
<b>Alpine Vegetation</b>				X				X	X	X							X	X			X		X	X		X	X
Develop economic incentives to reduce greenhouse gas emissions within California.	Economic Incentives							X																			
Develop or update management plans to integrate the effects of climate change.	Management Planning															X											

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Engage urban citizens, educate grade school children on climate change, and expand conservation education programs to include climate change and solutions to reduce impacts such as reducing greenhouse gas emissions.	Outreach and Education								X															X			
Establish partnerships to co-monitor target on state and federally managed lands, to establish decision-making processes with other public and private entities to determine or implement strategies, convene an advisory committee to assist with implementation of strategies and engage university students in research.	Partner Engagement							X									X										
Gather more information on alpine habitat requirements and impacts of climate change on the plant community and its KEAs, specifically in the North Coast and Klamath Province.	Data Collection and Analysis			X																		X					

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Manage grazing and invasive species by removing trails, restricting grazing and pack animal use of subalpine and alpine meadows on public lands, removing campground use away from subalpine and alpine meadows, and removing invasive species.	Direct Management																											X
Provide training on science based applications and tools. Provide science-based applications and tools for climate change and natural resources management.	Training and Technical Assistance																				X							
Restore subalpine and alpine meadows, including restoration or enhancement of degraded habitats, monitoring populations, fencing for protection and removing barriers to species movement.	Direct Management																									X		
<b>Montane Upland Deciduous Scrub</b>								X	X	X			X			X	X	X				X	X	X				
Advocate for laws and policies that protect natural resources.	Law and Policy																	X										
Conduct comprehensive ecological assessment (research).	Data Collection and Analysis																				X							

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Conduct environmental review. Maintain devotion of staff to environmental review of CEQA projects. Enhance staffing levels to commit to environmental review of NEPA projects on federal lands.	Environmental Review								X								X						X	X		
Gather and analyze data about aspen meadows and wildlife.	Data Collection and Analysis									X						X						X				
Implement habitat restoration and enhancement for aspen meadows.	Direct Management											X														
Partner for joint advocacy with public and private sectors. Establish partnership for privately managed lands. Establish decision making processes with other public and private entities to determine or implement strategies. Creating and maintaining partnerships will ensure the coordinated development of conservation strategies or actions to reduce climate-related stresses to species and habitats.	Partner Engagement							X									X									
Provide outreach and education for the conservation of natural resources.	Outreach and Education								X														X			

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<b>Subalpine Aspen Forests and Pine Woodlands</b>									X	X			X			X	X	X				X	X	X			
Advocate for laws and policies that protect natural resources.	Law and Policy																	X									
Conduct comprehensive ecological assessment (research) on target, particularly aspen meadows.	Data Collection and Analysis									X						X						X					
Conduct environmental review, maintain devotion of staff to environmental review of CEQA projects, and enhance staffing levels to commit to environmental review of NEPA projects on federal lands.	Environmental Review								X								X							X	X		
Gather and analyze data on subalpine aspen forests and pine woodlands (mature conifer forest).	Data Collection and Analysis									X						X						X					
Implement habitat restoration and enhancement of aspen meadows.	Direct Management												X														
Partner for joint advocacy with public and private sectors.	Partner Engagement																								X		
Provide outreach and education.	Outreach and Education								X														X				

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<b>Wet Mountain Meadow; Fen (Wet Meadow); Mountain Riparian Scrub and Wet Meadow; Subalpine Forests and Pine Woodlands; Western Upland Grasslands</b>								X	X	X			X			X	X	X				X	X	X		
Advocate for laws and policies that protect natural resources.	Law and Policy																	X								
Conduct comprehensive ecological assessment (research) and evaluate climate effects on aspen meadows.	Data Collection and Analysis									X						X						X				
Conduct environmental review, maintain devotion of staff to environmental review of CEQA projects, and enhance staffing levels to commit to environmental review of National Environmental Policy Act (NEPA) projects on federal lands.	Environmental Review								X								X						X	X		
Gather and analyze data regarding aspen meadows and wildlife.	Data Collection and Analysis									X						X						X				
Implement habitat restoration and enhancement of aspen meadows.	Direct Management												X													

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		Partner for joint advocacy by establishing partnership for privately managed lands and decision-making processes with other public and private entities.	Partner Engagement							X										X								
Provide outreach and education for the conservation of natural resources.	Outreach and Education								X															X				
<b>Northern California Coast Ecoregion</b>																												
<b>North Coastal and Montane Riparian Forest and Woodland</b>																												
Coordinate with Regional Conservation Districts (RCDs), flood control agencies, counties, cities, and watershed groups/councils.	Partner Engagement								X					X	X				X							X		X
Develop buffers along major rivers and streams.	Direct Management														X													
Develop CDFW Riparian Conservation Policy.	Law and Policy																		X									
Develop Riparian and Wetlands Task Force.	Partner Engagement																								X			
Habitat restoration and enhancement.	Direct Management													X														



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Implement Santa Rosa Plain Conservation Strategy and Draft Santa Rosa Plain Recovery Plan. Utilize potential and existing conservation lands, including banks, mitigation sites and other public and private lands to develop and implement conservation actions and management plans for SGCN that inhabit grassland habitats, vernal pools and associated habitats on the Santa Rosa Plain.	Land Acquisition/ Easement/Lease											X															
Improve implementation of grazing best management practices (BMPs).	Management Planning																										X
Provide outreach and education for the conservation of natural resources.	Outreach and Education								X																X		
<b>Freshwater Marsh</b>									X			X			X			X	X					X			
Advocate for laws and policies.	Law and Policy																	X									
Develop management plans.	Management Planning														X												
Provide economic incentives for improved resource management.	Economic Incentives																		X								
Provide outreach and education.	Outreach and Education								X														X				

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		Purchase land and conservation easements.	Land Acquisition/ Easement/Lease											X														
<b>Pacific Northwest Conifer Forests</b>									X	X						X	X	X						X	X	X		X
Advocate for wildlife friendly fire management.	Management Planning															X												
Conduct research (data management) on conifer forest ecosystems and response to fire.	Data Collection and Analysis										X						X						X					
Develop management plans for the conservation of natural resources.	Management Planning															X												
Manage invasive species.	Direct Management																											X
Partner with USFS, NRCS, The Nature Conservancy (TNC), Western Klamath Restoration Partnership, Mendocino Firescape, and others for joint advocacy.	Partner Engagement																	X										
Provide input on project planning and decision making process, by leading or participating in land use planning for rural, urban, or agricultural lands (e.g., provide input on local land use plans), developing county-wide zoning plans, and participating in workgroup regarding low impact development siting.	Management Planning									X															X			

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Provide outreach and education.	Outreach and Education																								X			
Provide training on invasive species management.	Training and Technical Assistance																											X
<b>Northern California Coast Ranges Ecoregion</b>																												
<b>Pacific Northwest Subalpine Forest</b>																												
Collect more information on climate-related impacts to species and habitats in the red fir/subalpine zone, to better predict future distribution and viability and inform land acquisition and other strategies.	Data Collection and Analysis		X	X		X		X	X	X			X		X	X	X		X					X	X	X		
Collect data to evaluate effects of fuels treatments in the red fir zone, and whether treatments can partly offset climate-related increases in fire severity.	Data Collection and Analysis		X																					X				
Develop economic incentives to reduce greenhouse gas emissions within California.	Economic Incentives							X											X									
Develop or update management plans to integrate the effects of climate change.	Management Planning		X												X													

**Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies**

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		C1.1: Improve connectivity	C1.2: Implement adaptive management	C2: Enhance biodiversity monitoring	C3.1: Promote nature-based adaptation solutions	C3.2: Prioritization tools for conservation activities	C4.1: Habitat mapping	C4.5: Identify emissions reduction opportunities	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.1: Identify connectivity	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N3.4: Build funding capacity	N4.2: Employ decision-support tools	N5.1: Identify research gaps	N5.2: Conduct research	N6.1: Increase public awareness	N6.3: Coordinate communication	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
Establish partnership to co-monitor target habitat on state and federal lands.	Partner Engagement							X																			
Implement fuels treatments in red fir, if determined to be effective (see "Data Collection and Analysis").	Direct Management												X					X									
Provide input on local land use plans regarding the conservation of natural resources.	Land Use Planning									X					X												
Provide science-based applications and tools for climate change and natural resources management.	Training and Technical Assistance				X																						
Review projects for potential increases in greenhouse gas emissions; require mitigation as needed.	Environmental Review						X		X									X						X	X		
<b>North Coastal and Montane Riparian Forest and Woodland</b>									X				X	X			X	X							X		X
Coordinate with Regional Conservation Districts (RCDs), flood control agencies, counties, cities, and watershed groups/councils.	Partner Engagement																X								X		
Develop buffers along major rivers and streams.	Direct Management													X													
Develop CDFW Riparian Conservation Policy.	Law and Policy																	X									

Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																										
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		Develop Riparian and Wetlands Task Force.	Partner Engagement																	X								X
Habitat restoration and enhancement.	Direct Management													X														
Implement Santa Rosa Plain Conservation Strategy and Draft Santa Rosa Plain Recovery Plan. Utilize potential and existing conservation lands, including banks, mitigation sites and other public and private lands to develop and implement conservation actions and management plans for SGCN that inhabit grassland habitats, vernal pools and associated habitats on the Santa Rosa Plain.	Land Acquisition/ Easement/Lease											X																
Improve implementation of grazing best management practices (BMPs).	Management Planning																											X
Provide education and outreach for the conservation of natural resources.	Outreach and Education									X																X		
<b>Northern California Interior Coast Ranges Ecoregion</b>																												
<b>California Foothill and Valley Forests and Woodlands</b>									X	X			X					X		X					X			
Conduct ecologically sound controlled burns on CDFW lands.	Direct Management																											

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Conduct demonstration management, including providing public demonstrations of successful BMPs and scientifically documenting environmental change from implementation of BMPs.	Direct Management Outreach and Education								X															X			
Establish partnerships to enhance conservation opportunities.	Partner Engagement							X									X										
Protect land through conservation easements.	Land Acquisition/ Easement/Lease											X															
Provide economic incentives for improved resource management.	Economic Incentives																		X								
Provide outreach and education for the conservation of natural resources.	Outreach and Education								X															X			
Purchase and provide long-term conservation of land.	Land Acquisition/ Easement/Lease											X															

**Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies**

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<b>SOUTH COAST PROVINCE</b>																											
<b>Southern California Coast Ecoregion</b>																											
<b>California Grasslands and Flowerfields</b>		X							X	X		X				X						X	X	X	X		X
Acquire and conserve high-value grassland habitats.	Land Acquisition/Easement/Lease	X										X															
Coordinate with U.S. Department of Fish and Wildlife (USFWS) and other agencies to assist local jurisdictions with conservation of grasslands (e.g., via the natural communities conservation plan/habitat conservation plan process) in light of increasing extent of vineyard development in grasslands.	Management Planning								X								X								X		
Gather and analyze data to establish baseline inventory of SGCN distribution.	Data Collection and Analysis									X						X						X	X				
Partner for joint advocacy for the conservation of natural resources.	Partner Engagement																							X			
Reduce extent and spread of invasive species, with emphasis on ecosystem function for SGCN.	Direct Management																										X

Table G-1 Ecoregion Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies																												
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<b>American Southwest Riparian Forest and Woodland</b>					X				X	X		X		X		X		X				X	X				X	
Acquire and conserve high-functioning riparian areas that have the greatest ecological potential (e.g., Santa Clara, San Luis Rey, and Ventura River watersheds, followed by larger impaired systems and those that support SGCN), and functioning riparian habitat on private property.	Land Acquisition/ Easement/Lease											X																
Advocate for effective enforcement laws to reduce impacts of waste and disturbance on significant riparian areas.	Law and Policy																	X										
Engage in local planning to encourage the use of bio (soft)-engineering for flood control, retention of functional floodplains, and deterrence and capture of waste and pollution.	Management Planning				X																							
Gather and analyze data to establish baseline inventory of SGCN distribution, habitats, and pressures.	Data Collection and Analysis									X						X							X					



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Manage barriers to water movement, with focus on improving stream water volume, groundwater levels, vegetation age-class heterogeneity, channel pattern, and seasonal flow variation.	Direct Management													X													
Manage invasive species, with focus on reducing the extent of invasive species (particularly <i>Arundo</i> and tamarisk) and improving structural diversity of native vegetation.	Direct Management																										X
Provide outreach and education focused on improving vegetation structural diversity, reducing infestations of invasive species (for plants, specifically <i>Arundo</i> and tamarisk), and protecting functioning riparian habitat on private property.	Outreach and Education								X															X			
<b>Freshwater Marsh</b>									X					X				X	X					X			
Advocate for laws and policies.	Law and Policy																	X									
Develop management plans.	Management Planning														X												
Provide economic incentives for improved resource management.	Economic Incentives																		X								
Provide outreach and education.	Outreach and Education								X														X				

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		Purchase land and conservation easements.	Land Acquisition/ Easement/Lease											X														
<b>Southern California Mountain and Valley Ecoregion</b>																												
<b>American Southwest Riparian Forest and Woodland</b>																												
Acquire and conserve high-functioning riparian areas that have the greatest ecological potential (e.g., Santa Clara, San Luis Rey, and Ventura River watersheds, followed by larger impaired systems and those that support SGCN), and functioning riparian habitat on private property.	Land Acquisition/ Easement/Lease			X						X	X	X			X		X		X					X	X			X
Advocate for effective enforcement laws to reduce impacts of waste and disturbance on significant riparian areas.	Law and Policy																		X									
Engage in local planning to encourage the use of bio (soft)-engineering for flood control, retention of functional floodplains, and deterrence and capture of waste and pollution.	Management Planning				X																							
Gather and analyze data to establish baseline inventory of SGCN distribution, habitats, and pressures.	Data Collection and Analysis										X						X						X					

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Manage barriers to water movement, with focus on improving stream water volume, groundwater levels, vegetation age-class heterogeneity, channel pattern, and seasonal flow variation.	Direct Management													X													
Manage invasive species, with focus on reducing the extent of invasive species (particularly <i>Arundo</i> and tamarisk) and improving structural diversity of native vegetation.	Direct Management																										X
Provide outreach and education focused on improving vegetation structural diversity, reducing infestations of invasive species (for plants, specifically <i>Arundo</i> and tamarisk), and protecting functioning riparian habitat on private property.	Outreach and Education								X															X			
<b>California Grasslands and Flowerfields</b>		X							X	X		X				X						X	X	X	X		X
Acquire and conserve high-value grassland habitats.	Land Acquisition/ Easement/Lease	X										X															

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		Coordinate with U.S. Department of Fish and Wildlife (USFWS) and other agencies to assist local jurisdictions with conservation of grasslands (e.g., via the natural communities conservation plan/habitat conservation plan process) in light of increasing extent of vineyard development in grasslands.	Management Planning									X																X
Gather and analyze data to establish baseline inventory of SGCN distribution.	Data Collection and Analysis										X						X					X	X					
Partner for joint advocacy for the conservation of natural resources.	Partner Engagement																							X				
Reduce extent and spread of invasive species, with emphasis on ecosystem function for SGCN.	Direct Management																										X	

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>BAY DELTA AND CENTRAL COAST</b>																	
<b>Central California Coastal HUC 1806</b>																			
<b>Coastal Lagoons</b>		X				X	X		X		X	X			X	X			
Conduct baseline surveys for SCGN/habitat and pressures in at least 50 percent of coastal lagoons within the ecoregion.	Data Collection and Analysis					X							X			X			
Develop an interagency direct management plan for coastal lagoons.	Direct Management										X								
Influence the drafting of laws and policies that promote conservation of lagoon habitat.	Law and Policy														X				
Manage dams and other barriers to improve fish passage and stream ecosystem function.	Direct Management	X							X										
Protect riparian areas by acquiring land adjacent to lagoons, and reduce water diversion from the critical lagoons and tributary streams during late spring to summer.	Land Acquisition/Easement/Lease						X												
Provide training and technical assistance, including training interagency staff in fish identification and invasive species management/control techniques.	Training and Technical Assistance												X						
<b>San Francisco Bay Conservation Unit</b>																			
<b>American Southwest Riparian Forest and Woodland</b>		X	X		X		X	X	X	X	X	X		X			X	X	X
Acquire, conserve and manage habitat for SGCN that inhabit riparian forest and woodland habitats by finalizing draft conservation plans and implementing completed NCCPs, HCPs, and Conservation Strategies and other opportunities.	Land Acquisition/Easement/Lease	X					X	X	X		X	X						X	X

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		Develop grazing BMPs.	Direct Management							X		X				X			
Develop riparian buffers along major rivers and streams.	Direct Management	X	X					X	X		X							X	
Implement education and outreach to the public and local agencies regarding the value of riparian habitat, development of riparian buffers along major rivers and streams, and reducing encroachment of crops into riparian buffers.	Outreach and Education				X												X		
Improve road maintenance on county and state roads to reduce sediment impacts to stream habitats.	Direct Management							X										X	
Manage dams and other barriers to allow for fish passage.	Direct Management	X							X									X	
Manage invasive species.	Direct Management																	X	X
<b>Salt Marsh</b>				<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>					<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>
Advocate for laws and policies, with a focus on the following: influence land use policies to reduce impacts on salt marsh habitat; streamline permitting process for restoration; enhance law enforcement capacity for protection of restoration sites; develop programmatic permits; and prepare for climate change.	Law and Policy														X				
Conduct research regarding effective salt marsh management and restoration.	Data Collection and Analysis					X							X			X			
Control invasive species.	Direct Management																		X
Implement education and outreach focused on educating local agencies and the public on the biological values of Bay Delta habitats and existing pressures that affect fish and wildlife, and promote effective and coordinated conservation strategies for the Bay Delta.	Outreach and Education				X												X		

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		Implement integrated resource management.	Management Planning													X			
Partner for joint advocacy.	Partner Engagement													X					
Protect and restore land acquired through fee title or conservation easement, with focus on the following: acquire, protect, enhance, or restore salt marsh habitat; support the Delta Conservancy to establish restoration priorities; and increase connectivity among salt marsh habitats.	Land Acquisition/Easement/Lease						X	X											
Provide economic incentives for improved resource management.	Economic Incentives			X															
<b>Freshwater Marsh</b>																			
Advocate for laws and policies.	Law and Policy														X				
Development management plans.	Management Planning													X					
Provide economic incentives for improved resource management.	Economic Incentives			X													X		
Provide outreach and education.	Outreach and Education				X												X		
Purchase land and conservation easements.	Land Acquisition/Easement/Lease						X	X											

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<b>CASCADES AND MODOC PLATEAU</b>																			
<b>North Lahontan HUC 1808</b>																			
<b>Eagle Lake Native Fish Assemblage</b>		X		X	X			X	X	X				X		X	X		X
Develop BMPs for water management and conservation in the Pine Creek watershed. Coordinate with USFS to create enhanced wetlands and multi-use management (wildlife, livestock, and fish) policy. Managed water could better be used for fish as there are alternative water sources for wildlife and livestock in the Pine Creek watershed.	Management Planning									X									
Develop or update grazing BMPs for managed grazing, including barriers to sensitive areas, fencing timing, and grazing rotations.	Law and Policy									X									
Encourage use of alternative water sources (wells if sufficient ground water is present), water conservation practices, and reduce the impacts of water loss at water treatment sites.	Direct Management							X											
Engage in decision-making process.	Partner Engagement			X									X						
Implement the Eagle Lake Rainbow Trout Conservation Strategy (ELRTCS), which was developed amongst the USFWS, USFS, and CDFW.	Direct Management							X											
Improve road maintenance to reduce sediment from roads entering streams.	Direct Management									X									
Manage dams and other barriers by installing control structures (gate or gate valve) to allow more bypass flows and fish passage.	Direct Management	X							X										
Manage grazing.	Direct Management							X											



Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																		
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species	
		Manage invasive species.	Direct Management																	
Prepare groundwater assessment.	Data Collection and Analysis															X				
Promote domestic water efficiency and conservation through reducing water use by increased efficiency from residence and businesses.	Management Planning				X															
Provide economic incentives for grazing on public lands to follow BMPs.	Economic Incentives			X																
Provide education and outreach by educating the public on the development, status, and need for BMPs and about invasive species.	Outreach and Education				X												X			
<b>Sacramento HUC 1802</b>																				
<b>Goose Lake Native Fish Assemblage</b>		<b>X</b>			<b>X</b>				<b>X</b>					<b>X</b>			<b>X</b>	<b>X</b>	<b>X</b>	
Design and implement inventory and assessment of fish populations and fish habitat.	Data Collection and Analysis														X					
Develop or update grazing BMPs and conduct managed grazing.	Law and Policy				X								X							
Education and outreach; inform public of restoration plans and why treatment is necessary.	Outreach and Education				X												X			
Manage dams and other barriers.	Direct Management	X							X											
Manage invasive species.	Direct Management																			X
Reduce livestock access to natural water features with wells and alternative water sources.	Direct Management																	X		

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>CENTRAL VALLEY AND SIERRA NEVADA</b>																	
<b>Central Lahontan HUC 1605</b>																			
<b>Carson River Native Fish Assemblage</b>		X			X	X	X	X	X	X		X	X		X	X	X		
Conduct outreach; inform public of issues related to introduced genetic material, risks of invasive species, and importance of aquatic biodiversity management plans.	Outreach and Education				X												X		
Conduct research on SGCN; study the distribution and abundance of mountain whitefish and mountain sucker in the Carson River Basin, and the susceptibility of the Carson River Basin to invasive species.	Data Collection and Analysis					X							X			X			
Develop basin management plans.	Management Planning									X									
Enhance habitat, improve water quality and temperature consistent with the Basin Plan, and coordinate water storage and timing of release between CDFW and water agencies to benefit fish habitat and water users.	Direct Management							X											
Implement effective law enforcement related to: illegal water diversions, illegal fishing, and introduction of invasive species in the Carson River Basin; compliance with 1600 agreements; and compliance with water rights.	Law and Policy														X				
Manage dams and other barriers to fish passage.	Direct Management	X							X										
Provide training to staff and managers on non-native genetic issues, invasive species management and control techniques, and fish identification.	Training and Technical Assistance											X							

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																		
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species	
		Purchase land and/or acquire easements: acquire water rights by purchasing lands along the critical Carson River tributaries, acquire conservation easements to protect riparian areas in the Carson River Basin, acquire large mountain meadow ranches for conservation, and acquire water storage rights in the Carson River Basin.	Land Acquisition/Easement/Lease						X											
Reintroduce Lahontan cutthroat trout and Paiute cutthroat trout to their historic ranges.	Direct Management											X								
Restore native species; manage invasive species and restore/maintain native fish populations in target streams.	Direct Management											X								
<b>Walker River Native Fish Assemblage</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>
Collect data on the impacts of diversions, water management, water use, and the distribution of introduced genetic material on the native fish community.	Data Collection and Analysis					X							X			X				
Develop or update and implement grazing BMPs.	Direct Management										X									
Ensure that planning and decision-making processes support the conservation of stream habitats and flows as a result of CDFW input.	Management Planning													X						
Establish and develop co-management partnership to affect change in dams and/or water management and use following interagency agreement.	Partner Engagement			X										X						
Implement direct management activities to restore aquatic habitats and ensure that SGCN are maintained or enhanced.	Direct Management										X									
Implement effective enforcement of laws.	Law and Policy														X					
Manage water for beneficial uses by native aquatic species.	Direct Management										X									

<b>Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies</b>		<b>California (C) and National (N) Climate Adaptation Strategies</b>																	
<b>Targets and Strategies (Targets are listed in bold)</b>	<b>Statewide Conservation Category</b>	<b>C1.1: Improve connectivity</b>	<b>C3.1: Promote nature-based adaptation solutions</b>	<b>C5.1: Create partnerships</b>	<b>C5.2: Public education and outreach</b>	<b>C5.3: Increase CC knowledge</b>	<b>N1.2: Secure conservation status</b>	<b>N1.3: Restore habitat</b>	<b>N1.4: Improve connectivity</b>	<b>N2.1: Update management plans and practices</b>	<b>N2.2: Manage species for CC</b>	<b>N2.3: Conserve genetic diversity</b>	<b>N3.1: Increase CC knowledge</b>	<b>N3.2: Coordinate actions</b>	<b>N3.3: Build legal capacity</b>	<b>N5.2: Conduct research</b>	<b>N6.1: Increase public awareness</b>	<b>N7.2: Reverse habitat degradation</b>	<b>N7.3: Manage invasive species</b>
		Provide outreach and education on native aquatic resource conservation efforts.	Outreach and Education				X												X
Reduce impacts to native fish as a result of roads and railroads and invasive species through development and use of BMPs.	Management Planning										X							X	X
Remove introduced brook trout in the context of recovery of listed Lahontan cutthroat trout.	Direct Management										X								X
Translocate or reintroduce native fish species.	Direct Management										X								
<b>Sacramento HUC 1802</b>																			
<b>Clear Lake Native Fish Assemblage</b>				X	X		X			X				X			X	X	X
Control damage to creeks from OHV use.	Direct Management																	X	
Develop BMPs for increased spring/summer flows for improved lake and fish health, improved fish passage, and water diversions.	Direct Management									X									
Establish collaborative partnerships.	Partner Engagement			X										X					
Increase Law Enforcement Division (LED) staffing levels and implement effective law enforcement related to: illegal water diversions, illegal fishing, and invasive species introductions; compliance with 1600 agreements; and compliance with water rights.	Law and Policy									X									
Manage invasive species.	Direct Management																		X
Purchase land and/or acquire easements.	Land Acquisition/Easement/Lease						X												
Provide economic incentives for improved resource management.	Economic Incentives			X															
Provide outreach and education for the conservation of natural resources.	Outreach and Education				X												X		

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>San Joaquin HUC 1804</b>																	
<b>San Joaquin Native Fish Assemblage</b>			X		X			X	X						X	X	X		X
Advocate for effective enforcement of laws related to protection of significant riparian areas.	Law and Policy													X					
Control invasive species: assess, map, and develop control plans for invasive aquatic species.	Direct Management																		X
Gather and analyze data; establish baseline inventory of SGCN and habitat, and pressure distributions.	Data Collection and Analysis															X			
Improve fish passage: assess, prioritize, and remove/modify fish passage barriers.	Direct Management								X										
Protect and restore floodplain function; implement and maintain priority floodplain restoration projects.	Direct Management							X											
Provide input on local planning; engage in local planning to encourage the use of bio(soft) engineering for flood control, retention of functional floodplains, and deterrence and capture of waste and pollution.	Management Planning		X																
Provide outreach and education for the conservation of natural resources.	Outreach and Education				X												X		
Restore natural flows.	Direct Management								X										

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies																			
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	California (C) and National (N) Climate Adaptation Strategies																	
		C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
<b>Tulare - Buena Vista Lakes HUC 1803</b>																			
<b>Upper Kern River Native Fish Assemblage</b>																			
Conduct outreach; inform public of issues related to introduced genetic material, risks of invasive species, and importance of aquatic and riparian habitat restoration.	Outreach and Education				X	X	X	X		X		X	X			X	X		
Conduct research on SGCN; update genetic status for golden trout; refine distribution for hardhead and Kern River rainbow trout.	Data Collection and Analysis					X						X				X			
Develop new or revised management plans for native fish and implement existing Conservation Assessment and Strategy for golden trout.	Management Planning									X									
Purchase land and/or acquire easements.	Land Acquisition/Easement/Lease						X												
Reintroduce golden trout to its historic range.	Direct Management									X									
Restore and enhance meadow habitat; improve water quality and temperature consistent with the Basin Plan.	Direct Management								X										
Restore native species; manage invasive species, and remove non-native trout from target streams.	Direct Management											X							
Provide training to staff and managers on non-native genetic issues, invasive species management, and control techniques.	Training and Technical Assistance											X							

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>DESERTS PROVINCE</b>																	
<b>Central Lahontan HUC 1605</b>																			
<b>Walker River Native Fish Assemblage</b>		X		X	X	X			X	X	X		X	X		X	X		X
Collect data on the impacts of diversions, water management, water use, and the distribution of introduced genetic material on the native fish community.	Data Collection and Analysis					X							X			X			
Develop, update, and implement grazing BMPs.	Management planning										X							X	X
Ensure that planning and decision-making processes support the conservation of stream habitats and flows as a result of CDFW input.	Management Planning												X						
Establish and develop co-management partnership to affect change in dams and/or water management and use following interagency agreement.	Partner Engagement			X										X					
Implement direct management activities to restore aquatic habitats and ensure that SGCNs are maintained or enhanced.	Direct Management										X							X	
Implement effective enforcement of laws.	Law and Policy												X						
Manage water for beneficial uses by native aquatic species.	Direct Management	X							X										
Provide outreach and education on native aquatic resource conservation efforts.	Outreach and Education				X												X		
Reduce impacts to native fish as a result of roads and railroads and invasive species through development and use of BMPs.	Management Planning										X							X	X
Remove introduced brook trout in the context of recovery of listed Lahontan cutthroat trout.	Direct Management										X								X
Translocate or reintroduce native fish species.	Direct Management								X										

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies																			
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	California (C) and National (N) Climate Adaptation Strategies																	
		C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
<b>Northern Mojave - Mono Lake HUC 1809</b>																			
<b>Anthropogenically Created Aquatic Features</b>																			
Collect data on the distribution of invasive species and impacts to the target habitat, species utilization of anthropogenic waterways, and the distribution of temporary aquatic habitats associated with roads and railroads to inform management.	Data Collection and Analysis			X	X	X	X			X			X	X		X	X		X
Develop and implement BMPs for managed grazing, maintenance of drains/canals, and road and railway maintenance.	Law and Policy								X										
Establish co-management partnerships and cooperative management plans with land management agencies, water agencies, private landowners, regional land trusts, environmental organizations, railroads, and transportation agencies.	Partner Engagement			X									X						
Manage invasive species to expand range of aquatic/semi-aquatic SCGN.	Direct Management																		X
Provide input on project planning and decision making process; conserve anthropogenic aquatic habitats through participation in the planning and decision making process.	Land Use Planning												X						
Provide outreach and education, with emphasis on improving public awareness, concern, and participation in resource conservation.	Outreach and Education				X											X			



Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>Cienegas</b>				X	X		X		X			X		X		X	X
Establish and develop co-management partnerships.	Partner Engagement			X										X					
Gather and analyze data on impacts of water management and water use, renewable energy projects, groundwater use for farming and livestock, and invasive species on native species within cienegas.	Data Collection and Analysis															X			
Participate in interagency review of water management and use, particularly groundwater withdrawals.	Direct Management								X										
Protect high-quality cienegas through acquisition/easement/lease.	Land Acquisition/Easement/Lease						X												
Provide outreach and education about the need for resource management of cienegas.	Outreach and Education				X												X		
Translocate or reintroduce native aquatic SGCN and establish genetically viable populations.	Direct Management											X							
<b>Springs and Spring Brooks</b>		X		X	X	X			X		X	X	X	X		X	X		X
Establish and develop co-management partnerships.	Partner Engagement			X										X					
Manage dams and other barriers to control fish passage.	Direct Management	X							X										
Manage invasive species to expand range of native fishes.	Direct Management																		X
Protect high-quality springs and spring brooks through acquisition/easement/lease.	Land Acquisition/Easement/Lease						X												
Provide input on local planning decisions.	Management Planning													X					
Provide outreach and education, with emphasis on improving public awareness, concern, and participation in resource conservation that leads to improved conditions for native fish.	Outreach and Education				X												X		

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		Study and document impacts of invasive species, renewable energy projects, and dams and water management and use on spring ecosystems and associated species for future management actions.	Data Collection and Analysis					X							X			X	
Translocate or reintroduce native aquatic SGCN and establish genetically viable populations.	Direct Management										X								
<b>Southern Mojave - Salton Sea HUC 1810</b>																			
<b>Anthropogenically Created Aquatic Features</b>																			
Collect data on the distribution of invasive species and impacts to the target habitat, species utilization of anthropogenic waterways, and the distribution of temporary aquatic habitats associated with roads and railroads to inform management.	Data Collection and Analysis			X	X	X	X			X		X	X	X		X	X		X
Develop and implement BMPs for managed grazing, maintenance of drains/canals, and road and railway maintenance.	Law and Policy									X									
Establish co-management partnerships and cooperative management plans with land management agencies, water agencies, private landowners, regional land trusts, environmental organizations, railroads, and transportation agencies.	Partner Engagement			X										X					
Manage invasive species to expand range of aquatic/semi-aquatic SCGN.	Direct Management																		X
Provide input on project planning and decision making process; conserve anthropogenic aquatic habitats through participation in the planning and decision making process.	Land Use Planning													X					
Provide outreach and education, with emphasis on improving public awareness, concern, and participation in resource conservation.	Outreach and Education				X												X		

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>Cienegas</b>				X	X		X		X			X		X		X	X
Establish and develop co-management partnerships.	Partner Engagement			X										X					
Gather and analyze data on impacts of water management and water use, renewable energy projects, groundwater use for farming and livestock, and invasive species on native species within cienegas.	Data Collection and Analysis															X			
Participate in interagency review of water management and use, particularly groundwater withdrawals.	Direct Management								X										
Protect high-quality cienegas through acquisition/easement/lease.	Land Acquisition/Easement/Lease						X												
Provide outreach and education about the need for resource management of cienegas.	Outreach and Education				X												X		
Translocate or reintroduce native aquatic SGCN and establish genetically viable populations.	Direct Management											X							
<b>NORTH COAST AND KLAMATH PROVINCE</b>																			
<b>Klamath - Northern California Coastal HUC 1801</b>																			
<b>Native Aquatic Species Assemblages/Communities</b>		X		X	X		X	X	X						X		X	X	
Acquire riparian areas. Protect stream ecosystems by riparian land purchase and conservation easements.	Land Acquisition/Easement/Lease						X												
Advocate for laws and policies. Develop, change, influence, and help implement formal legislation, regulations, and voluntary standards.	Law and Policy													X					

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		Develop buffers. Develop county stream buffer policy and guidelines in conjunction with ongoing regional efforts to develop riparian buffers. Adequate support and clear policy guideline are needed.	Direct Management							X									
Manage dams and other barriers by reviewing potential cost/benefit of modifying or removing dams that block access to significant amounts of high quality salmonid spawning and rearing habitat and modifying or removing Cape Horn Dam and Scott Dam from the upper Eel River, Dwinell dam on the Shasta River, and dams from upper Klamath River.	Direct Management	X							X										
Promote water conservation measures by reducing the amount of land growing water intensive crops, considering less water intensive crops, providing incentives for water conservation, and encouraging public participation in enforcement of wasteful use of water (peer pressure).	Direct Management				X														
Provide economic incentives to private landowners to influence responsible stewardship of land/water and specific species and establish good stewardship recognition or payments to landowners practicing sound resource management that benefits stream ecosystems.	Economic Incentives			X															
Provide outreach and education. Outreach includes both formal (classroom) and non-formal education efforts to: (1) landowners to implement land management practices to benefit species; and (2) decision makers about impacts on at-risk quality standards for key water bodies and aquatic species.	Outreach and Education				X												X		

<b>Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies</b>		<b>California (C) and National (N) Climate Adaptation Strategies</b>																	
<b>Targets and Strategies (Targets are listed in bold)</b>	<b>Statewide Conservation Category</b>	<b>C1.1: Improve connectivity</b>	<b>C3.1: Promote nature-based adaptation solutions</b>	<b>C5.1: Create partnerships</b>	<b>C5.2: Public education and outreach</b>	<b>C5.3: Increase CC knowledge</b>	<b>N1.2: Secure conservation status</b>	<b>N1.3: Restore habitat</b>	<b>N1.4: Improve connectivity</b>	<b>N2.1: Update management plans and practices</b>	<b>N2.2: Manage species for CC</b>	<b>N2.3: Conserve genetic diversity</b>	<b>N3.1: Increase CC knowledge</b>	<b>N3.2: Coordinate actions</b>	<b>N3.3: Build legal capacity</b>	<b>N5.2: Conduct research</b>	<b>N6.1: Increase public awareness</b>	<b>N7.2: Reverse habitat degradation</b>	<b>N7.3: Manage invasive species</b>
		Reduce need for livestock access to streams and riparian corridors by providing and locating water supply to livestock in grazing areas away from streams (use wells and other off channel sources).	Direct Management							X									
Support effective law enforcement by increasing funding for federal and state enforcement resources and increasing public awareness.	Law and Policy													X					
<b>SOUTH COAST PROVINCE</b>																			
<b>Southern California Coastal HUC 1807</b>																			
<b>South Coast Native Aquatic Herp Assemblage</b>		<b>X</b>			<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>				<b>X</b>	<b>X</b>		<b>X</b>
Conduct research to identify causal mechanism for Chytrid fungus and prevent its spread in amphibian populations.	Data Collection and Analysis					X						X				X			
Manage flows, dams, and other barriers to best benefit aquatic herps and for fish passage.	Direct Management	X							X										
Manage invasive species to improve conditions for native fish and aquatic herps.	Direct Management																		X
Protect and restore habitat, and create riparian buffers adjacent to streams.	Direct Management							X											
Protect land in fee or with conservation easements, with focus on riparian habitats that have the greatest ecological potential such as larger impaired systems and those that support SGCN.	Land Acquisition/Easement/Lease						X												
Provide outreach and education.	Outreach and Education				X												X		
Reintroduce native species.	Direct Management										X								

Table G-2 Hydrologic Unit Target Conservation Strategy Crosswalk to State and Federal Climate Adaptation Strategies		California (C) and National (N) Climate Adaptation Strategies																	
Targets and Strategies <i>(Targets are listed in bold)</i>	Statewide Conservation Category	C1.1: Improve connectivity	C3.1: Promote nature-based adaptation solutions	C5.1: Create partnerships	C5.2: Public education and outreach	C5.3: Increase CC knowledge	N1.2: Secure conservation status	N1.3: Restore habitat	N1.4: Improve connectivity	N2.1: Update management plans and practices	N2.2: Manage species for CC	N2.3: Conserve genetic diversity	N3.1: Increase CC knowledge	N3.2: Coordinate actions	N3.3: Build legal capacity	N5.2: Conduct research	N6.1: Increase public awareness	N7.2: Reverse habitat degradation	N7.3: Manage invasive species
		<b>Native Fish Assemblage</b>			X		X	X	X	X	X			X	X			X	X
Collect and analyze data to establish a baseline inventory of SCGN distribution.	Data Collection and Analysis					X							X			X			
Control invasive species.	Direct Management																		X
Identify areas that may act as climate refugia.	Data Collection and Analysis		X					X			X	X				X			
Implement outreach.	Outreach and Education				X												X		
Improve fish passage by working with federal, state, and local agencies to identify and remove key fish barriers to fish movement and sediment flow, and keep priority areas barrier free.	Direct Management								X										
Protect and restore floodplain function.	Direct Management							X											
Protect and restore unarmored threespine stickleback (UTS) habitat within the Santa Clara River mainstem, Soledad Canyon, and Bouquet Canyon.	Land Acquisition/Easement/Lease						X												
Restore natural flows.	Direct Management								X										
Translocate species to increase current distribution; specifically, translocate Santa Ana sucker, Santa Ana speckled dace, and UTS into suitable habitat in the Big Tujunga, San Gabriel, and Santa Clara watersheds.	Direct Management										X								