

GOALS

1. By 2025 increase the stream flow in the Carson River during summer and fall.
2. By 2025, improve water quality by reducing toxic effluents from Leviathan mine.
3. By 2025, restore 10% of erosion hotspots in Carson River watershed cooperatively with USFS
4. By 2025, the area occupied by assemblage of native fishes is increased by 10% in the Carson R HUC.
5. By 2025, the presence of all life stages of the populations has been increased by 10% to ensure their sustainability
6. By 2035, barriers which restrict access to suitable habitat and aid in fragmentation of native species population will be identified and solutions developed to remove the barriers or provide access around 5% of the barriers.
7. By 2025, design and implement plan to Improve habitat quality for downstream fish.

The State Wildlife Action Plan examines the health of wildlife and prescribes actions to conserve wildlife and vital habitat before they become more rare and more costly to protect. The plan also promotes wildlife conservation while furthering responsible development and addressing the needs of a growing human population.

STRATEGIES, OBJECTIVES AND ACTIVITIES

1. Reintroduce cut-throat trout LCT and PCT
 - a. Objectives
 - i. Reestablish native fisheries in historic range
 - b. Activities
 - i. Conduct feasibility analysis to identify target streams
 - ii. Identify source population or propagate
 - iii. Evaluate eradication methods for non-native species
 - iv. Develop reintroduction plan including post treatment monitoring
 - v. Coordinate with agencies and NGOs
 - vi. Conduct environmental review, obtain permits
 - vii. Obtain funding for implementation and staff
2. Effective Law Enforcement
 - a. Objectives
 - i. Compliance with water rights and 1600 agreements
 - ii. Reduced illegal diversions
 - iii. Increase LED staffing levels
 - iv. Reduced illegal fishing
 - v. Reduced introduction of invasive species
 - b. Activities
 - i. Coordinate with LED, USFS, SO
 - ii. Advocate for opportunities to improve prosecutions of environmental laws
 - iii. Identify partners to improve enforcement capabilities
 - iv. Evaluate and increase LED staffing levels
 - v. Obtain funding for implementation and staff
3. Restore native species
 - a. Objectives
 - i. Remove non-native trout species from select streams tributary to Carson and East Carson
 - ii. Prevent future contamination by invasive species
 - iii. Restore native fish to target streams
 - b. Activities
 - i. Update data on extent and distribution of native and non-native species in Carson Basin
 - ii. Non-native trout Removal strategy from selected waters developed
 - iii. Coordinate with USFS, BLM, County and private landowners
 - iv. Obtain required permits and conduct environmental review
 - v. Obtain funding for implementation and staff
 - vi. Conduct mechanical and/or chemical treatments
 - vii. Post treatment monitoring
 - viii. Develop reintroduction and genetic management plan for native species
 - ix. Initiate long-term monitoring and implement management plan
 - x. Link to Education and Outreach strategy
4. Develop basin management plan
 - a. Objectives
 - i. Develop basinwide fisheries management plan
 - b. Activities
 - i. Coordinate with USFS, BLM, Alpine County
 - ii. Coordinate with Fisheries Branch
 - iii. Obtain funding for implementation and staff
 - iv. Facilitate regional sub-committee to develop plan
 - v. Collect and compile data
 - vi. Conduct stakeholder meetings
 - vii. Implement trout management plan

SENSITIVE SPECIES

Paiute cutthroat trout
Lahontan cutthroat trout
Mountain sucker
Mountain whitefish
Paiute sculpin
Lahontan creek tui chub
Lahontan redbelly
Lahontan speckled dace
Tahoe sucker
Western Pearlshell Mussel

ENVIRONMENTAL STRESSES

Change in annual average temperatures
Change in summer average temperature
Change in snow pack
Change in snow cover period
Changes in sediment erosion/deposition regime
Changes in natural fire regime
Changes extreme events
Changes in nutrients
Altered spatial distribution of habitat types
Changes in community structure or composition
Loss or change in biotic interactions (altered community dynamics)
Changes in functional processes of ecosystem
Habitat fragmentation
Volcanoes
Avalanches/Landslides
Pollutants (water)

HUMAN RELATED IMPACTS

Housing and urban areas
Illegal fishing & harvesting aquatic resources
Invasive plants/animals
Dams & water management/use
Introduced genetic material



Name	Organization	Role
Sarah Musselman	CDFW-R2	Team Member
William Somer	CDFW-R2	Team Leader
Kevin Thomas	CDFW-R2	Team Member
John Hanson	CDFW-R2	Team Member
Ben Ewing	CDFW-R2	Team Member
Ken Kundargi	CDFW-R2	Team Member
Laurie Hutton	CDFW-R2	Team Member

