CALIFORNIA DEPARTMENT OF FISH and WILDLIFE

GOALS

1. By 2025, 5 areas or streams courses will have flow regimes modified to provide an increase in suitable habitat for native fishes.

2. By 2025, identify non-native invasive aquatic species populations and reduced their distribution by 5%.

3. By 2025, the area occupied by assemblage of native fishes is increased by 10% in the 160503 HUC6-Walker Basin.

4. By 2025, the presence of all life stages of the populations has been increased by 10% to ensure their sustainability.

5. By 2025, 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.



California State Wildlife Action Plan Update 2015 Walker Basin Watershed (HUC) DRAFT STRATEGY: Walker River Native Fish Assemblage

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.

SENSITIVE SPECIES

Lahontan cutthroat trout

Mountain sucker

Mountain whitefish

Paiute sculpin

Lahontan Creek tui chub

Lahontan redside

Lahontan speckled dace

Tahoe sucker

Freshwater mussels

(Anodonta, possibly Margaritifera)



















Name

Steve Parmente

Glenn Yoshioka

Dawne Baker

Judy Hohman

David Vigil

Junko Hoshi

Mike Giusti

ENVIRONMENTAL STRESSES

Change in air temperature

Change in precipitation

Change in snow pack

Change in snow cover period

Change in frequency and intensity of extreme events

Change in sediment erosiondeposition regime

Change in Natural fire regime

Change in runoff and river flow

Change in water levels and hydroperiod

Change in flood occurrence, frequency and intensity

Change in groundwater tables

Change in water nutrients

Change in spatial extent of target

Change in community structure or composition

Change in biotic interactions (altered community dynamics)

Habitat fragmentation

Change in water chemistry

TEAM

Organization CDFW-R6 CDFW-R6 CDFW-FB CDFW-R6 USFWS CDFW-R6 CDFW-HCPB

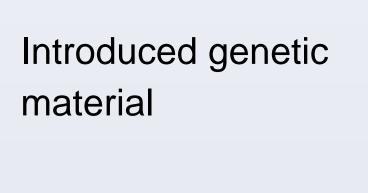


- Team Member Leader/Manager Team Member Team Member Team Member Team Member Team Member

Role







HUMAN RELATED

IMPACTS

Roads & Railroads

Dams & water

management/Use

Invasive plants/animals

Inappropriate livestock farming and ranching







1. Advocate for Effective Enforcement of Laws a. Objectives

i. CDFW fosters LED capacity for enforcement of water laws b. Activities



STRATEGIES, OBJECTIVES AND ACTIVITIES

- i. Identify laws and regulations governing riparian areas and work with governing agencies to apply effectively
- ii.Make recommendations to enhance enforcement of existing laws and regulations
- iii.Provide law enforcement with maps of critical problem areas iv. Provide funding for CDFW enforcement to enforce laws protecting streams and flows
- v.Obtain funding for strategy implementation
- vi.Develop LED Academy curriculum emphasizing water law 2. Translocation or reintroduction of species
 - a. Objectives
 - i. Establish self-sustaining and genetically viable native fish populations
- b. Activities
 - i. Identify source populations
 - ii.Remove invasive or problematic species from historic native fish habitat
 - iii.Create geo-referenced map/data base for native fish habitats iv.Develop basin plan for native fish management
 - v.Obtain funding for strategy implementation
 - vi.Coordinate management actions with natural resource agencies, NGOs and private landowners
 - vii.Collect/analyze genetic data to define priorities
- 3. Conjunctive water management
 - a. Objectives
 - i. Manage water for beneficial uses of native species b. Activities
 - i. Coordinate with water agencies
 - ii.Identify/coordinate with key stakeholders
 - iii.Collaborate with state and federal agencies for management plan development and review
 - iv.Collaborate with stakeholders to develop vegetation management plan.
 - v.Identify and quantity water needs by species
 - vi.Evaluate existing occupied habitats
 - vii.Obtain funding for plan implementation
- 4. Reduce impacts with BMPs
 - a. Objectives
 - i. Use BMPs to reduce impacts to native fish community from roads and Railroads
 - ii.Use BMPs to reduce impacts to native fish community from invasive species
 - b. Activities
 - i. Collaborate with partner in development of BMPs
 - ii.Collaborate with state and federal agencies and land owners
 - iii.Identify existing BMPs, develop BMPs database
 - iv.Establish working group to define BMPs
 - v.Obtain funding to implement strategy