

California State Wildlife Action Plan Update 2015

North Lahontan Hydrologic Unit 1808 – Eagle Lake DRAFT STRATEGY: Eagle Lake Native Fish Assemblage



GOALS

1. By 2025 improve surface flow in Pine Creek by decommissioning 5 stock water reservoirs and 1 stream diversion, using alternate water sources
2. By 2025, Improve the ratio of native to non-native species in Pine Creek
3. By 2025, Increase bank stability in tributary streams (primarily lower 20 miles of Pine Creek but also some smaller tributaries).
4. By 2025, Increase distribution of ELRT to upper 5 miles of the main stem of Pine Creek
5. By 2025, Increase the population size of ELRT in upper Pine Creek by 50%
6. By 2025, Increase the water volume in Pine Creek by working with the USFS to reallocate water used for enhanced wetlands and stock ponds.
7. By 2025, Maintain connectivity between lower Pine Creek and lake populations during spawning and migration period.
8. By 2025, Maintain or improve surface water levels in the lake consistent with the water budget
9. By 2025, Reestablish historic connectivity regime between lake and streams

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. Manage grazing
 - a.Objectives
 - i. Reduce grazing impacts to stream(s)/corridor
 - b.Activities
 - i. Coordinate with USFS, private landowners, UC Extension
 - ii. Construct exclusionary fencing in highly impacted areas
 - iii. Identify ways to achieve better compliance of BMPs
2. Develop Grazing BMPs
 - a.Objectives
 - i. Co-develop BMPs with land management agencies
 - ii. Have policies that benefit wildlife and sustain habitats
 - b.Activities
 - i. Identify partners and stakeholders
 - ii. Identify and review existing grazing management policies
 - iii. Develop MOU/MOA between partners
 - iv. Develop BMPs including enforcement policy
 - v. Provide input to land management agencies on grazing policies
 - vi. Identify funding sources, apply for funding
3. Develop BMPs for water management/conservation
 - a.Objectives
 - i. Co-develop BMPs with USFS for enhanced wetland and stock pond management and agree to best use of water
 - b.Activities
 - i. Engage Pine Creek (CRMP) working group
 - ii. Identify and review existing enhanced wetland and stock pond management policies
 - iii. Develop and implement BMPs
 - iv. Develop MOU/MOA between partners
 - v. Link to education and outreach strategy
4. Manage dams and other barriers
 - a.Objectives
 - i. Allow more bypass flows and improve fish passage
 - b.Activities
 - i. Coordinate with USFS
 - ii. Identify dam to retrofit with control structures
 - iii. Obtain funding for CDFW management plan
 - iv. Coordinate with USFS to remove USGS gauging weir.
5. Groundwater assessment
 - a.Objectives
 - i. Identify location, direction of movement, and quantity of ground-water
 - b.Activities
 - i. Identify partners and stakeholders
 - ii. Coordinate with USFS, DWR, RWQCB and private landowners
 - iii. Review existing information
 - iv. Develop study proposal Manage invasive species
 - c.Objectives
 - i. Remove brook trout from Pine Creek
 - d.Activities
 - i. Update data on extent of brook trout in Pine Creek
 - ii. Develop strategy for removal of brook trout from Pine Creek
 - iii. Coordinate with USFS and private landowners
 - iv. Obtain permits and environmental review

SENSITIVE SPECIES

- Eagle Lake tui-chub
- Eagle Lake rainbow trout
- Lahontan redband
- Tahoe sucker
- Speckled dace



Eagle Lake tui-chub



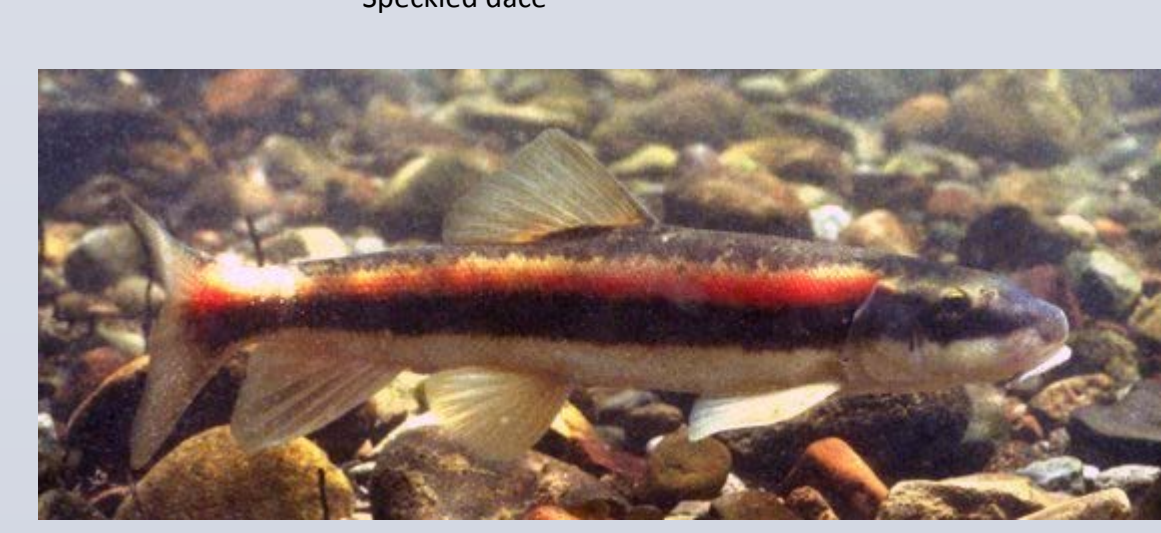
Lahontan redband



Eagle Lake rainbow trout



Speckled dace



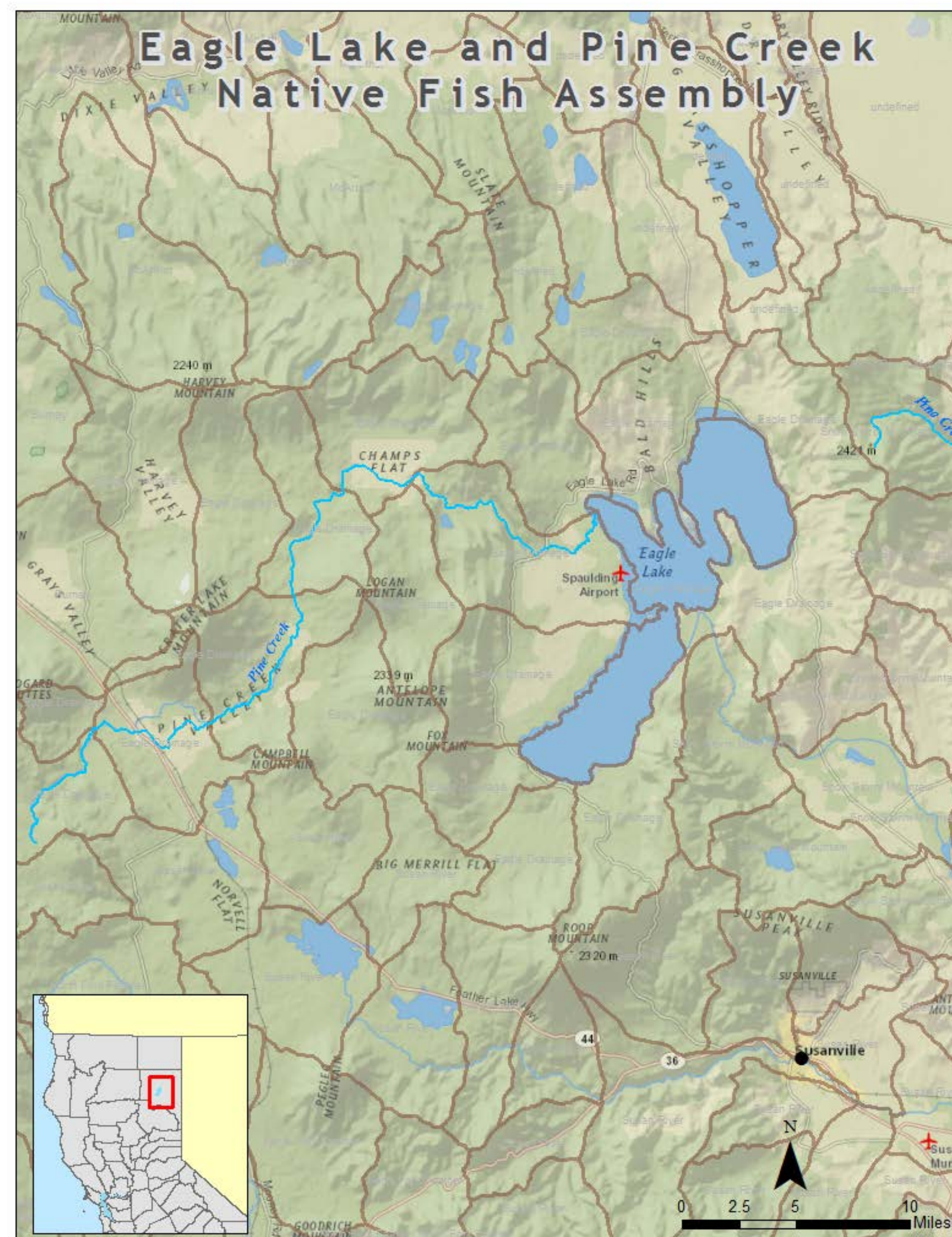
Tahoe sucker

ENVIRONMENTAL STRESSES

- Change in community structure or composition
- Change in sediment erosion-deposition regime
- Change in biotic interactions (altered community dynamics)
- Habitat fragmentation
- Change in runoff and river flow
- Change in water levels and hydroperiod
- Change in flood occurrence, frequency, intensity, and area flooded
- Change in groundwater tables
- Change in average annual air temperature
- Change in average annual precipitation
- Change in average spring temperature
- Change snow pack

HUMAN RELATED IMPACTS

- Dams & Water Management/Use
- Roads & Railroads
- Introduced Genetic Material
- Invasive plants/animals
- Inappropriate Livestock Grazing



TEAM



Name	Organization	Roles
Dave Lentz	CDFW-FB	Team Member
Junko Hoshi	CDFW-HCPB	Team Member
Mike Harris	CDFW-R1	Team Member
Paul Divine	CDFW-R1	Team Lead

