California State Wildlife Action Plan Update 2015

Sacramento HUC 1802

DRAFT STRATEGY: Clear Lake Native Fish Assemblage



STRATEGIES, OBJECTIVES AND

ACTIVITIES

i. Educate public on need for water management BMPs

ii.Keep public informed on development/status of water

i. Identify and partner with stakeholder groups to develop

iii.Educate public on impacts associated with their

iv. Educate public on impacts to native species by

ii.Identify objectives/goals for E/O Strategy

vi. Obtain funding for implementation and staff

to meet their needs while meeting BMP criteria.

iii.Develop agreement between partners to work

iv. Obtain funding for implementation and staff

ii.Develop trust among agencies and other stakeholders

vii.Develop performance measures

i. Identify partner working group

ii. Agree upon scope for collaboration

1. Provide Education and Outreach

management BMPs

message for E/O

v.Develop budget

iii.Develop Key messages

iv.Identify Target audience

2. Establish Collaborate Partnership

introducing invasive species

a.Objectives

activities

b.Activities

GOALS

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE

- 1. By 2025, increase the wetland and riparian extent around Clear Lake by 15-30%
- 2. By 2025, increase native fish population size by 5% over baseline. (need to establish baseline)
- 3. By 2025, increase (by 10%) the composition rate (ratio) of tule perch, prickly sculpin, and Clear Lake hitch in relation to the non-native fish community.
- 4. By 2025, increase the water flow in Adobe, Scotts, Middle, and Kelsey Cole creeks during spring/early summer so that native species could migrate.
- By 2025, increase the water flow of Adobe, Scotts, Middle, Kelsey, Cole creeks in Lake Co. during spring and early summer season so that native fish species could better migrate in these creeks. (HUC 1802 Conservation Unit.)
- 6. By 2025, increase the water quality in Clear Lake by reducing the sediment erosion in lake tributaries.
- 7. y 2025, restore stream bed functions in all major lake tributaries to their natural level.
- 8. By 2025, increase spring and early summer flows in all tributary streams

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Clear Lake 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**

Clear Lake hitch

Sacramento perch

Clear Lake tule perch

Pacific brook lamprey

Prickly sculpin

Sacramento blackfish

Sacramento pike minnow

California roach

Sacramento sucker

Three-spine stickleback

Rainbow trout

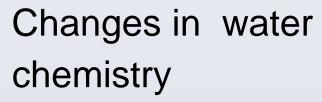
ENVIRONMENTAL STRESSES

Changes in air temperature

Changes in precipitation

Changes in sediment erosion-deposition regime

Changes in runoff and river



Changes in water levels and hydroperiod

Change in water nutrients

Change in water pollutants

Change in spatial extent of target

Change in community structure or composition

Change in biotic interactions (altered community dynamics)

Habitat fragmentation

HUMAN RELATED **IMPACTS**

Invasive plants/animals

Mining & Quarrying

Recreational Activities

Dams & Water Management/Use

Annual and Perennial Non-Timber Crops

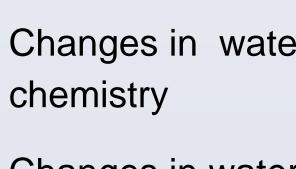
a.Objectives i. Understand the stakeholders' diverse needs and how

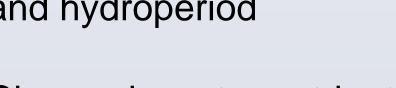


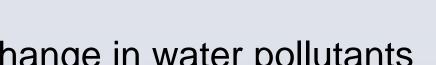












3. Best Management Practices Development a.Objectives

i. Increase spring/summer flows for improved lake and fish health

ii.Improve fish passage

together on BMPs

iii.Develop BMPs for water diversions

b.Activities

b.Activities

i. Identify partner working group

ii.Develop agreement between partners to work together on BMPs

iii.Look for existing management plans and evaluate their scope and success

iv.Agree upon scope for management plan

v.Obtain funding for implementation and staff

vi.Link to E/O plan to keep public informed

vii. Develop options for optimal timing of diversions

viii. Develop options for maintaining fish passage around diversion barriers

ix.Identify water conservation actions

x.Develop and implement BMPs



TEAM		
Name	Organization	Role
Dave Lentz	CDFW-FB	Team Member
Ben Ewing	CDFW-R2	Team Member
Rick Macedo	CDFW-R1	Team Member
Mike Harris	CDFW-R2	Team Member
Paul Divine	CDFW-R1	Team Member
Lauren Mulloy	CDFW-R2	Team Member
Jeanine Phillips	CDFW-R2	Team Lead

