



Imported Water Committee

Update on Bay-Delta Salmon Research

Item 6b

November 7, 2022

Presentation Outline

Salmonid Recovery Project

- Project Goal
- Background
- Phases



Project Goal

Develop an effective and implementable strategy to achieve “broad-sense” recovery for listed and non-listed salmonids in California’s Central Valley while considering other social, ecological, and economic interests in the region.



Natalie Stauffer-Olsen
Trout Unlimited



Rene Henery
Trout Unlimited



Gary Bobker
The Bay Institute



Frances Brewster
Valley Water



Alison Collins
Metropolitan Water District



Rafi Silberblatt
K&W



Lindsay Tryba
K&W



Michael Harstone
Compass



Brian Crawford
Compass



Bruce DiGennaro
Essex

Planning Team: water agencies & environmental groups



Added Value of Project

A structured process to
'stitch together' disaggregated
efforts to advance salmonid recovery



**Measurable and
ambitious
recovery targets**



**Entire salmonid
life cycle**



**Multiple models
and analytical tools**



**Consideration of
all regional
projects**



**Broad, equitable
and transparent
engagement**

PROJECT Overview

PHASE 1

Define Salmonid Recovery* (Q2 – Q4 2021)

Engage scientists to develop a Salmonid Recovery Definition Framework

PHASE 2

Engagement (Q1-Q3 2022)**

Solicit input from interested parties throughout the Central Valley

PHASE 3

Decision Support (Q4 2022 – Q1 2024)**

Use participant input to model baseline & benchmark scenarios and a structured process to select and evaluate scenarios

Identify a Suite of Actions to achieve salmonid recovery

Goal

*Funded by State Water Contractors

** Funded by Delta Science Program grant award

PHASE 1

Framework to Define Recovery



PHASE 1

Recovery Definition

Thank you to the following scientists (and organizations) for helping to develop the recovery definition framework over the course of twelve workshops (and subsequent working groups) in 2021



Recovery Definition Overview



Key Principles

- Viable Salmonid Population
- Not tied to regulatory or policy processes
- Seeks to go beyond delisting & support long-term harvest
- Distinguishes between: Natural/hatchery origin
- Species: Listed/non-listed

Recovery Definition Overview



Framework

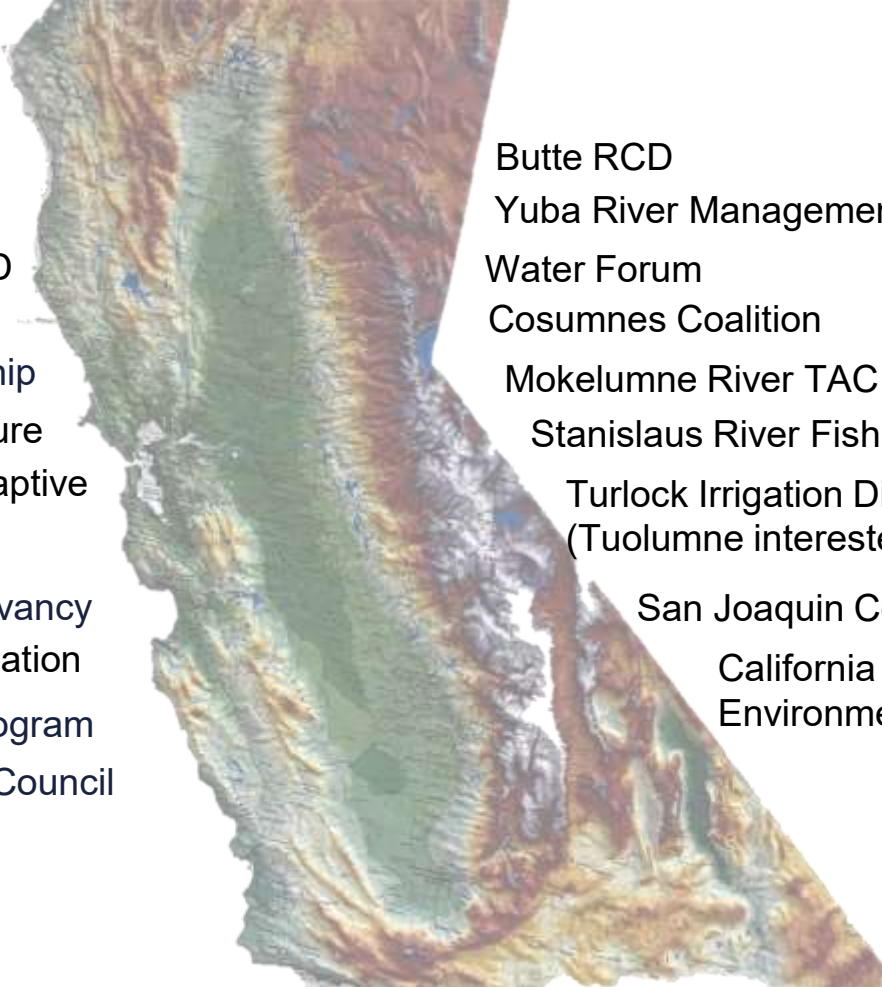
Objective	Metric
Abundance	Abundance relative to carrying capacity for spawning adults, holding adults, rearing juveniles
Productivity	Population growth rate
Spatial Structure	Number of independent viable populations
Diversity	Age distribution of spawning adults

PHASE 2 Engagement



PHASE 2: Engagement During 2022

Outreach webinars to multiple organizations



McCloud River Reintroduction Group
McCloud Watershed Council
Tehama RCD
Sacramento River Science Partnership
Central Valley Salmon Habitat Partnership
Central Valley Joint Venture
Collaborative Science & Adaptive
Management Program
Delta Conservancy
Nor-Cal Guides & Sportsmen's Association
San Joaquin River Restoration Program
Pacific Fishery Management Council

Butte RCD
Yuba River Management Team
Water Forum
Cosumnes Coalition
Mokelumne River TAC
Stanislaus River Fish Group
Turlock Irrigation District
(Tuolumne interested parties)
San Joaquin Conservancy
California Indian
Environmental Alliance

105 participants
60 organizations

Organizations

Tribal Nations (4)
Non-governmental
Organizations (14)
Academic
Universities (2)
State Agencies (12)
Federal Agencies (3)
Fishery (1)
Agriculture (5)
Water Agencies (8)
Waterfowl (1)
Consultants (10)

Values Workshops June 2022

Values

- Perspective on values related to salmonid recovery

Watershed Specific Data

- Alternatives/modifications to datasets currently being used for modeling
- Information to set targets at the specific watershed level

Project Catalog



Values Questionnaire

- How do you imagine salmonid recovery might benefit you?
- How do you imagine efforts to achieve salmonid recovery might negatively impact you?
- What are the unique factors in your watershed that act as barriers to salmonid recovery?





Values Statements

- Salmonids as an indicator of the health and integrity of the Bay-Delta
- Preserving natural habitats despite cultural and societal externalities
- Climate change accommodation
- More people employed in salmonid related jobs
- Improving water supply by providing greater flexibility in how and when water is delivered to farms to grow food and cities for human use





Project Data and Project Catalog

- Watershed Data
 - How many salmonids are produced?
 - What habitat is available to restore?
- Project Catalog
 - >200 projects



PHASE 3 Decision Support



Builds on
Phase 1 and 2

Next Steps – Phase 3

- 2022: Kickoff workshops Dec 1, 6, 12, 2022
- 2023:
 - Identify actions to recover salmonids
 - Estimate consequences of actions
 - Compare tradeoffs of actions
- 2024, March: Strategy to achieve “broad-sense” recovery while considering other social, ecological, and economic interests in the region.

Metropolitans' Interests

Metropolitans' Interest

<i>Revised Bay-Delta Policy Objectives</i>		
● Promote a Sustainable Bay-Delta Within Metropolitan's One Water Approach ● Support Statewide and Regional Actions that Further the Coequal Goals Established in the Delta Reform Act ● Address the Risks Associated with Climate Change		
<i>Revised Bay-Delta Policy Framework</i>		
Science and Watershed Management	Water Supply Reliability and Resilience	Partnerships and Cost-Effective Investments
Protect and restore aquatic species and habitats based on best available science	Protect water supply reliability and quality while reducing reliance consistent with the Delta Reform Act	Maintain and pursue cost-effective financial investments
Partner in watershed-wide approaches to develop comprehensive solutions	Invest in actions that provide seismic and climate resiliency	Foster broad and inclusive engagement of Delta interests and beneficiaries
Advance responsible stewardship of Metropolitan's Delta islands	Seek flexible operations, water management actions, and infrastructure solutions	Promote innovative and multi-benefit initiatives

ESA listed
species limit
water supply
reliability

Metropolitans' Interest

- Project will identify priority actions to recover salmonids agreed upon by multi-user group
- Metropolitan can identify what actions we can best aid

