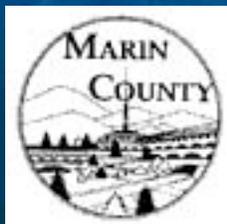
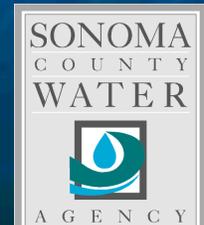


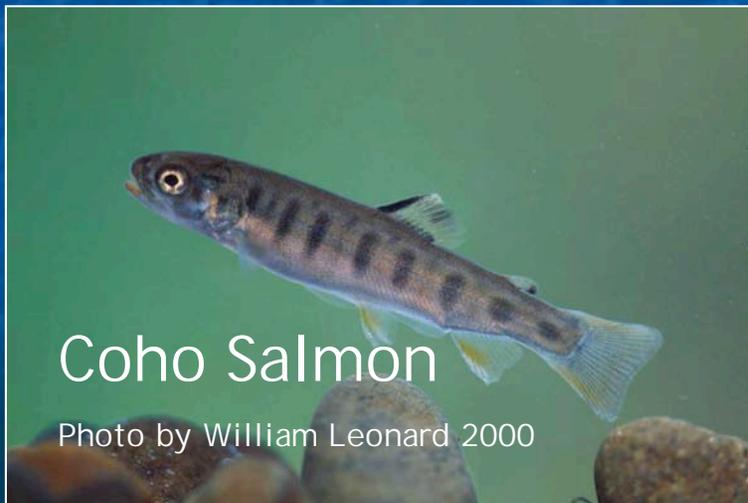
Local Bay Area Involvement in State and Federal Fisheries Recovery Planning



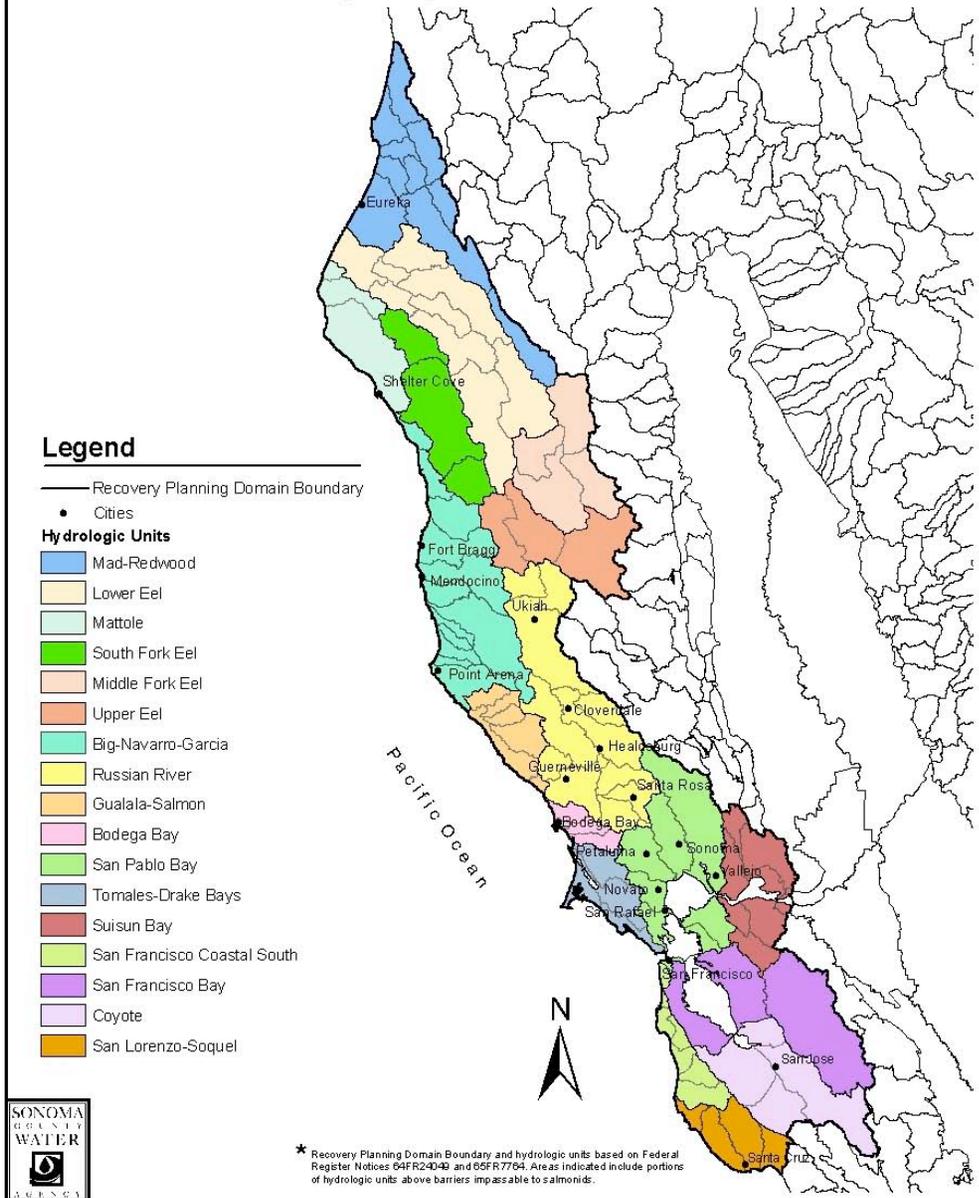
Bay Area Water Forum
January 24, 2005



Listed Species in Recovery Domain



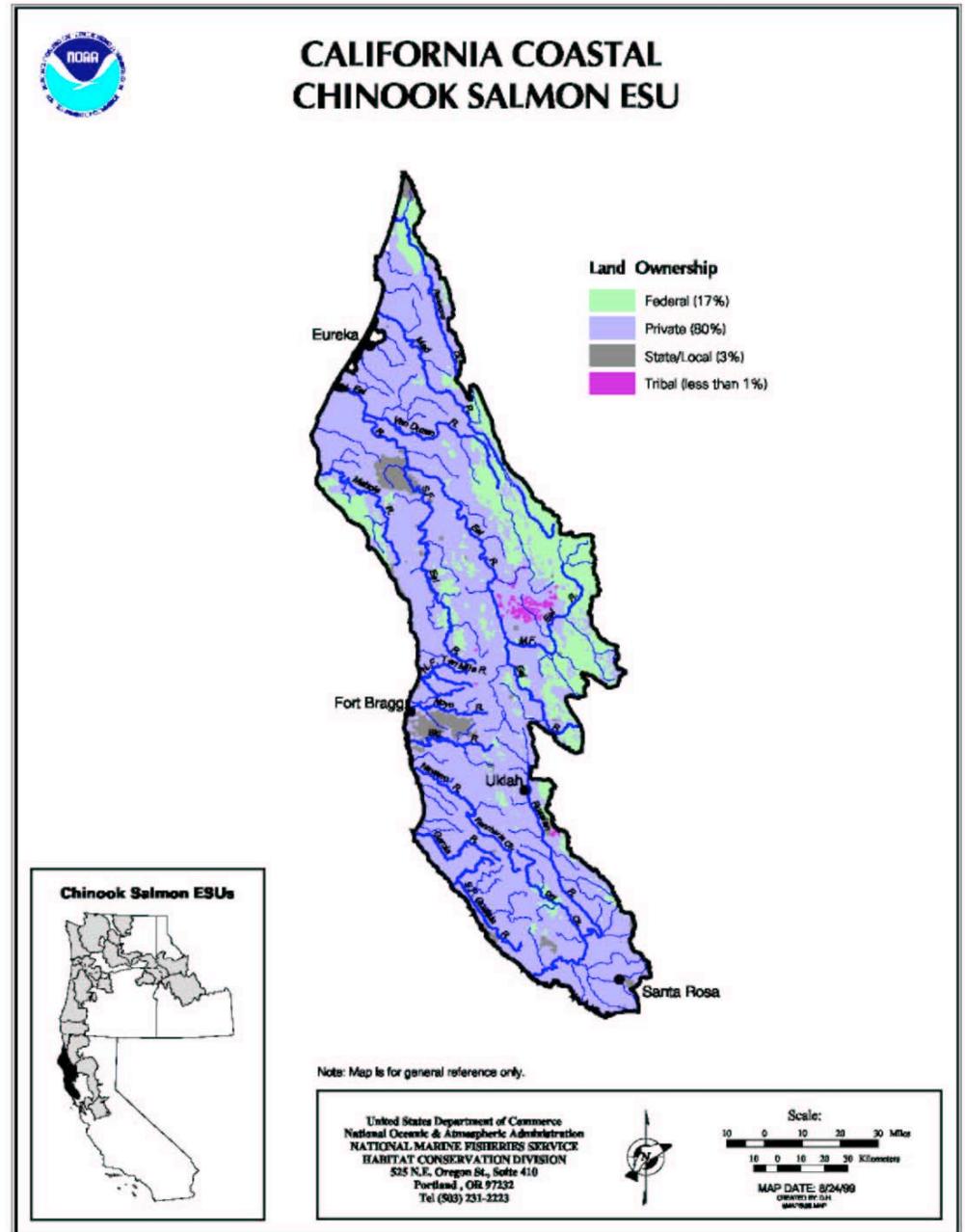
**North-central California Coast
Recovery Planning Domain* for
Steelhead, and Chinook and Coho Salmon
Hydrologic Unit Boundaries**



- Includes 4 threatened salmon ESUs
- Ranges from Santa Cruz to Humboldt counties
- Implementation of federal recovery plan or equivalent necessary to delist

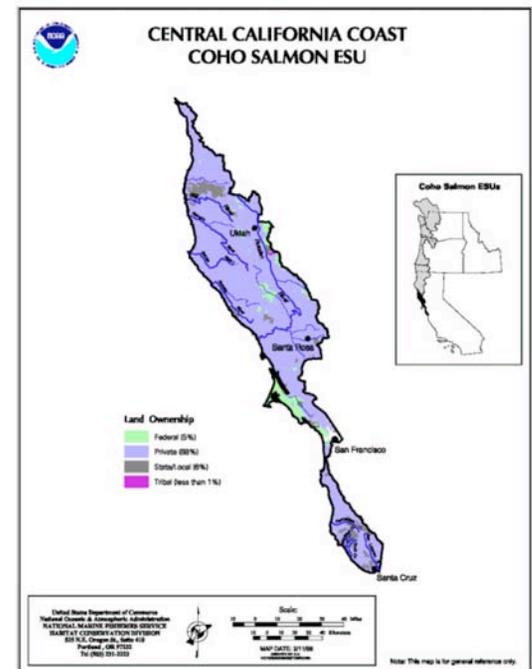
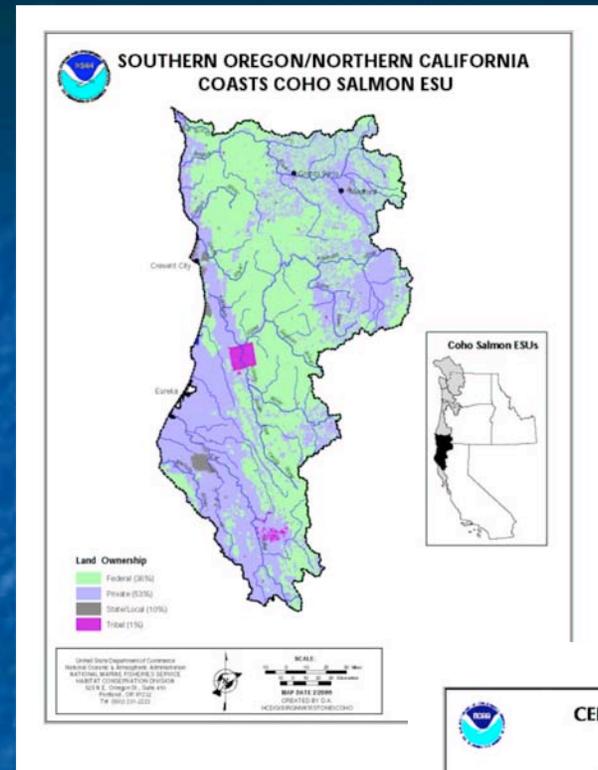
Chinook Salmon

- Affect coastal northern and Central Valley counties
- Migrate through San Francisco Bay
- Chinook in Bay Area streams likely strays



Coho Salmon

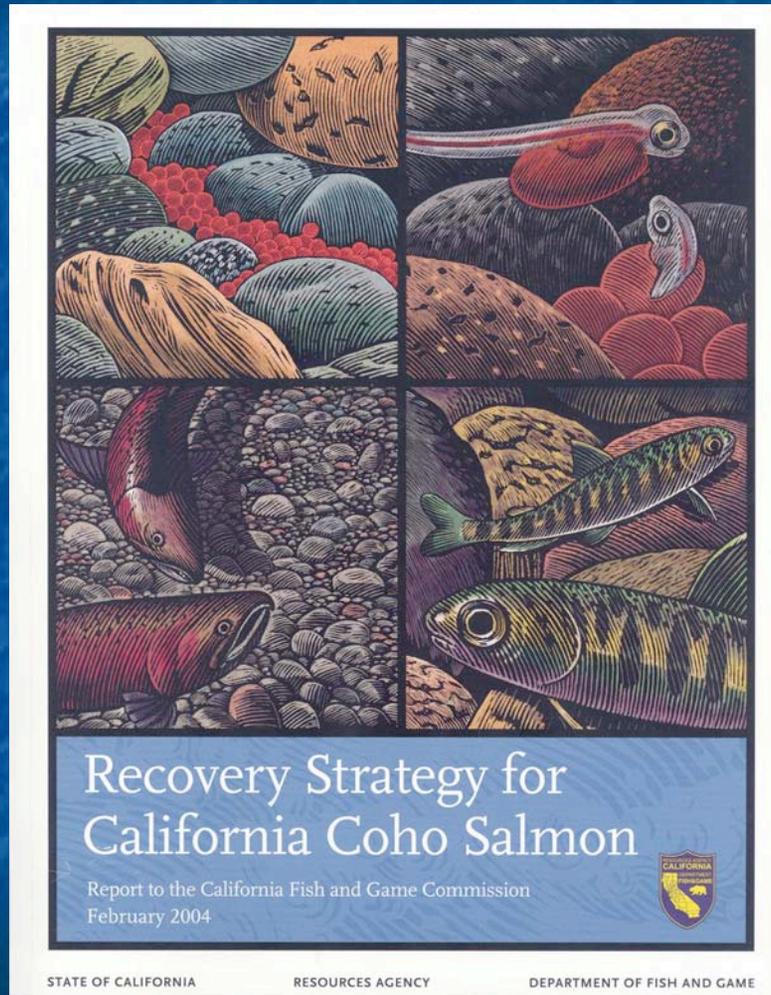
- Affect Marin, Sonoma and coastal San Mateo counties
- Narrow habitat requirements and life cycle
- Occupy least number of streams
- State Strategy Prepared



State Coho Recovery Strategy

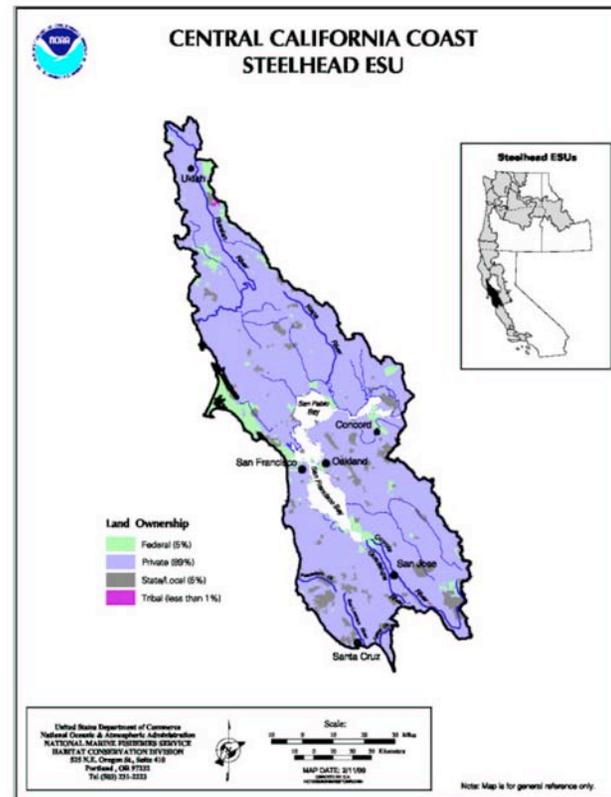
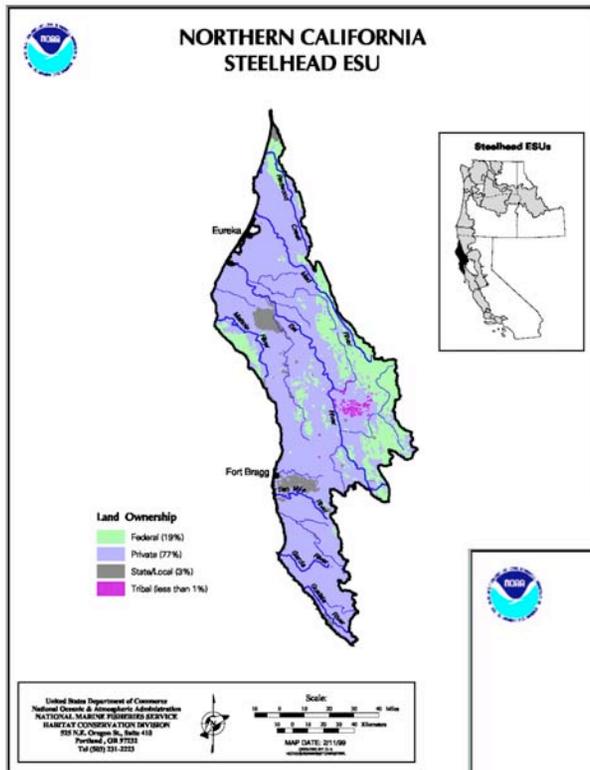
The Strategy identifies:

- Threats to the species
- Recovery goals and delisting criteria
- Elements necessary for recovery
- Emphasizes local participation



Steelhead

- Most widespread and abundant of our salmonids
- Occupy largest number of streams
- Found in all counties
- Need Steelhead Recovery Plan for Bay Area



Recovery Planning

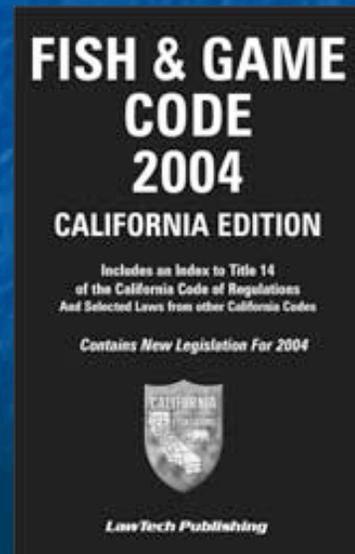
Goal : healthy self-sustaining populations

Federal Process- 2 Phases

- Describe limiting factors, genetic diversity, and threshold populations for each watershed
- Develop Recovery Implementation Plans

State

- Developed coho salmon recovery strategy
- Listed coho salmon as Threatened (Endangered North of Punta Gorda)
- Working to permit and implement strategy elements



Recovery Planning- Local Involvement

Options for Local Involvement	Pros	Cons
<p>Wait and See</p> <ul style="list-style-type: none">■ React to recovery products as become available	<ul style="list-style-type: none">■ Less cost now■ No initial effort 	<ul style="list-style-type: none">■ Saddled with operationally unacceptable regulations■ No input in the process■ Higher costs long-term
<p>Direct Involvement</p> <ul style="list-style-type: none">■ Participate in planning, assist with plan development	<ul style="list-style-type: none">■ Input in process- integrate recovery actions with local responsibilities■ Identify responsibilities- Share costs■ Timely completion of process■ Lower long-term costs■ Funding available	<ul style="list-style-type: none">■ Higher short term costs

Next Steps

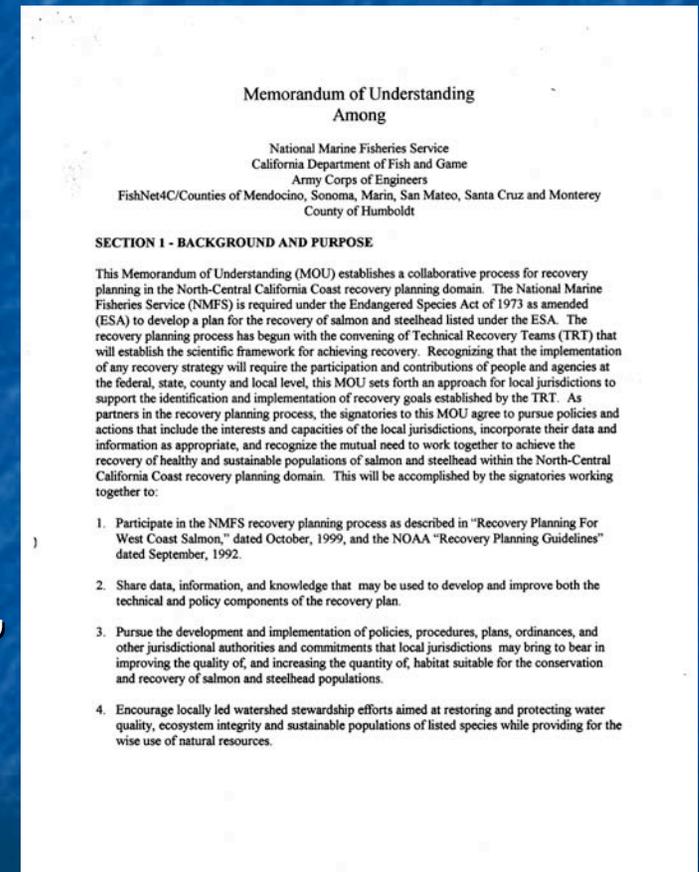
- Sign on to MOU
- Pursue Pacific Salmon Restoration funding
- Bay Area IRWMP
- Future Water Bonds
- Develop Bay Area Steelhead Recovery Plan collaboratively with local agencies, NOAA, and CDFG
- Hatcheries adopt Genetic Management Plans
- Collaborate with State to procure federal funding under Section 6 of the federal ESA

Recovery Planning MOU

- Establishes a framework for collaborative local involvement in the process
- Originally signed May 16, 2002

Participants:

- NOAA Fisheries
- CDFG
- USACE
- Fishnet 4C Counties- Mendocino, Sonoma, Marin, San Mateo, Santa Cruz and Monterey
- Humboldt County
- Other counties/agencies can join



Recovery Planning MOU

Signed MOU

- Humboldt
- Mendocino
- Sonoma
- Marin
- San Mateo
- Santa Cruz
- Monterey



Still need to sign MOU

- Napa
- Solano
- San Francisco
- Alameda
- Santa Clara



Recovery Planning MOU

- Recognizes need for participation of federal, state, and local jurisdictions
- Share data
- Provides mechanism for local jurisdictions to support identification and implementation of recovery goals

Recovery Planning MOU

- Include needs and responsibilities of local jurisdictions into recovery actions
- Try to integrate state and federal regulations programmatically (1602, CWA)
- Supports community based recovery actions

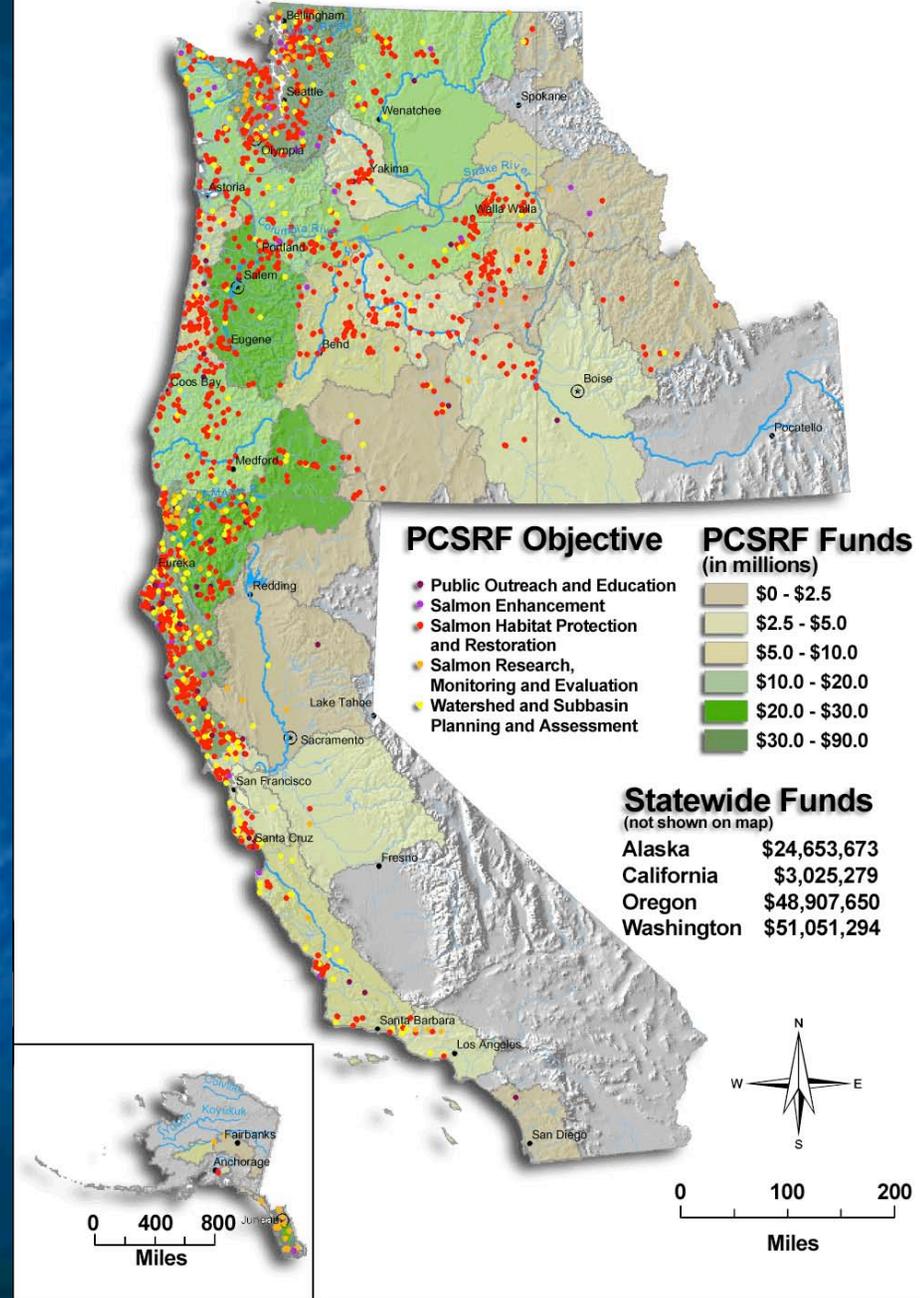
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Pacific Coast Salmon Restoration Fund

- Projects under represented in Bay Area
- Fund development of recovery plans and implementation of recovery actions

PCSRF Projects by Objective, Funding by Basin, 2000-2003



Next Steps

- Sign on to MOU
- Pursue Pacific Salmon Restoration funding
- **Bay Area IRWMP**
- Future Water Bonds
- Develop Bay Area Steelhead Recovery Plan collaboratively with local agencies, NOAA, and CDFG
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Bay Area Integrated Regional Water Management Plan (IRWMP)

- Proposition 50 Chapter 8 funding
- Integrate water supply, recycled water, and stormwater and watershed management projects
- Integrate recovery actions into Watershed Management and Habitat Protection Plan Elements

Next Steps

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- Pursue Pacific Salmon Restoration funding
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Future Water Bonds

- Develop language that support projects that promote the recovery of listed species
- Make consistent with CALFED goals
- Fund development and implementation of a Bay Area Steelhead Recovery Plan

Next Steps

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- Hatcheries adopt Genetic Management Plans
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Bay Area Salmonid Recovery Plans

- Developed collaboratively by stakeholders and fisheries agencies
- Would incorporate local responsibilities into recovery actions
- Identify responsibilities for recovery actions
 - (such as passage, habitat improvement, research and monitoring)
- Speed recovery of Bay Area salmonids
- Provide more regulatory certainty for local agencies

Next Steps

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Salmon and Steelhead Hatcheries

1. [Iron Gate Hatchery](#)
2. [Mad River Hatchery](#)
3. [Trinity River Hatchery](#)
4. [Feather River Hatchery](#)
5. [Warm Springs Hatchery](#)
6. [Nimbus Hatchery](#)
7. [Mokelumne River Hatchery](#)
8. [Merced River Hatchery](#)

Trout Hatcheries

9. [Mount Shasta Hatchery](#)
10. [Darah Springs Hatchery](#)
11. [Crystal Lake Hatchery](#)
12. [American River Hatchery](#)
13. [Silverado Fisheries Base](#)
14. [Moccasin Creek Hatchery](#)
15. [Hot Creek Hatchery](#)
16. [Fish Springs Hatchery](#)
17. [Mount Whitney Hatchery](#)
18. [San Joaquin Hatchery](#)
19. [Kern River Planting Base](#)
20. [Fillmore Hatchery](#)
21. [Mojave River Hatchery](#)

Hatchery Genetics Management Plans (HGMP)

- Two hatcheries in the Recovery Domain (Warm Springs Fish Hatchery, Mad River Fish Hatchery)
- Hatcheries can cultivate Bay Area strains for release
- HGMPs for Warm Springs Hatchery on the Russian River have been prepared
- Valuable templates statewide as part of salmonid recovery



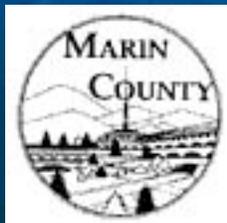
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Cooperation with States- Section 6 of the Federal Endangered Species Act

- Cooperative Endangered Species Conservation Fund (90 million available in FY 2005)
- Assistance includes surveys, planning, monitoring, management, acquisition, and outreach
- States eligible if they have a cooperative agreement with NOAA or USFWS to implement conservation program
- Funding could be used to prepare recovery plans or implement recovery action

Local Bay Area Involvement in State and Federal Fisheries Recovery Planning



Bay Area Water Forum
January 24, 2005

