

# **CVPIA Fisheries Program Progress**



















Central Valley Project Improvement Act





# **CVPIA: The Doubling Goal**



"...implement a program which makes all reasonable efforts to ensure that, by the year 2002, natural production of anadromous fish in Central Valley rivers and streams will be sustainable, on a long term basis, at levels not less than twice the average levels attained during the period of 1967-1991".

**Chinook Salmon Natural Production Targets** 

Central Valley 990,000

Fall Run 750,000

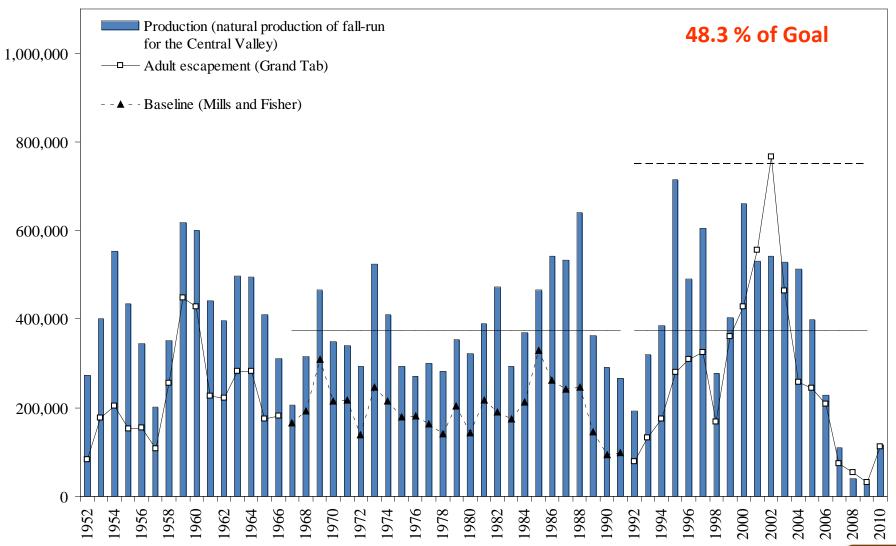
Late-Fall Run 68,000

Spring Run 68,000

Winter Run 110,000



# **CVPIA: The Doubling Goal**





Butte Creek 155 % Clear Creek 149 %

Deer Creek 56%





#### **CVPIA: Doubling Goal Objectives**



- Improve habitat for all life stages of anadromous fish through provisions of flows of suitable quality, quantity, and timing, and improved physical habitat.
- Improve survival rates by reducing or eliminating entrainment of juveniles at diversions.
- Improve the opportunity for adult fish to reach their spawning habitats in a timely manner.
- Collect fish population, health, and habitat data to facilitate evaluation of restoration actions.
- Integrate habitat restoration efforts with harvest and hatchery management.
- Involve partners in the implementation and evaluation of restoration actions.





## **CVPIA: Reasonable Actions**



The Final Restoration Plan (FRP) focused on 26 watersheds, Misc. creeks, westside tributaries, and the Delta.

The FRP identified 289 actions (128 CPAR) to be implemented by the Program that would help achieve the Act's anadromous fish doubling goal.

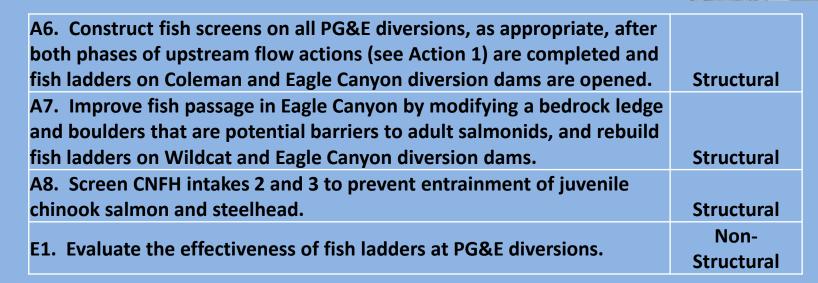
The FRP, doubling goals, objectives, and new information are used to guide the implementation of restoration actions in collaboration with others including other State and Federal agencies and Stakeholders in the Central Valley.



# **CVPIA: Progress towards** 3407(d)(1) – Battle Creek

- 12 Total Actions, 9 CPAR Actions

- 5 of 9 or 56% Complete



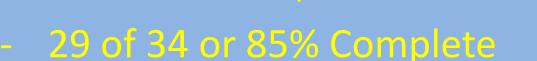


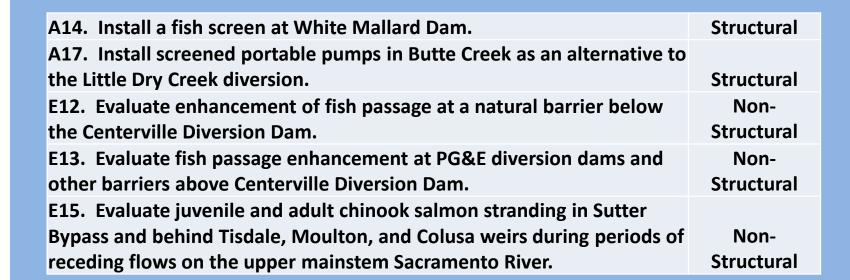




# **CVPIA:** Progress towards 3407(d)(1) – Butte Creek

- 38 Total Actions, 34 CPAR Actions







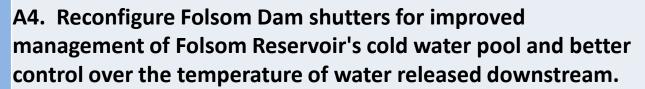




# **CVPIA: Progress towards 3407(d)(1) – American River**

- 13 Total Actions, 5 CPAR Actions

- 2 of 5 or 40% Complete



A9. Terminate current programs that remove woody debris from the river channel.

E1. Evaluate the effectiveness of pulse flows to facilitate successful emigration of juvenile salmonids.

Structural

Non-Structural

Non-Structural









#### **CVPIA Fisheries Program Revisioning**







### **Problem Statement (Part I)**



An Independent Science Review of Central Valley Project Improvement Act (CVPIA) Fisheries program identified four major recommendations as part of the "Listen to the River" report. These include: (1) update and improve the program's science-based framework, (2) reorganize program structure and management, (3) improve implementation by making full use of CVPIA authorities, and (4) improve collaboration with all related programs in the Central Valley.





### **Problem Statement (Part II)**



These recommendations identified the need to develop a new comprehensive, science-based approach that explicitly links CVPIA activities with Program objectives. The review also recommended that the framework incorporate uncertainty and allow for integration of new information to improve scientific understanding and increase the effectiveness of CVPIA activities.





#### **Objectives**



The project proposes to use a structured decision making approach to develop a framework that allows decision-makers to prioritize CVPIA activities and guide planning of broad scale activities. A transparent prototype decision model will be developed that (1) integrates large scale CVPIA program elements into a single science-based framework; (2) explicitly links restoration activities to ecological/environmental objectives; and (3) can be used to identify and prioritize large scale restoration activities based on programmatic objectives and constraints.





#### **Deliverables**



Development of a science-based decision process and producing an updated implementation plan. The science-based decision process will require (1) revisiting Program objectives and performance measures with State and Federal agencies, and stakeholders, (2) developing a system-wide conceptual/quantitative model to help guide Program decisions, (3) reassessing monitoring and evaluation efforts given revised objectives, performance measures, and models, and (4) integrating independent scientific reviews into the organizational structure of the Program. The results from the science-based decision process will provide the strategic approach and foundational pieces for the Implementation Plan that will serve as the Program's longer-term guiding document.





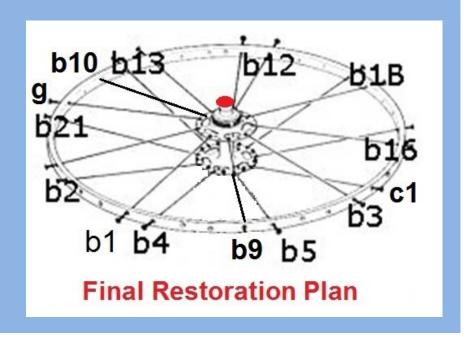


#### **Decision Context (Part I)**

Title 34 Public Law 102-575

CVPIA PEIS

The Final Restoration Plan







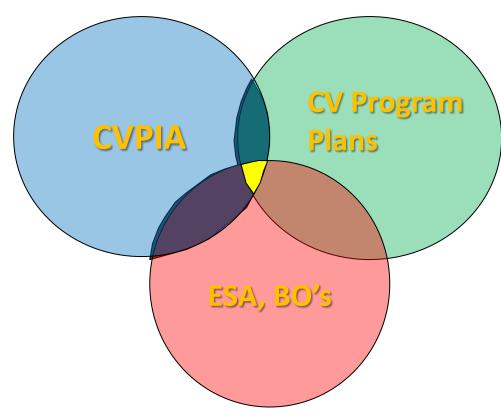




#### **Decision Context (Part II)**



- Compliment Recovery Plans
- Incorporate existing Watershed Plans
- Strengthen interagency
  & stakeholder
  process







#### **Benefits**



- 1. Science-based decision process and updated implementation plan will provide guidance on how to realign the organizational structure of the Program.
- Integrated plan that aligns priorities amongst the agencies allows for the examination of where agency priorities overlap.
- 3. Will allow for additional specificity and refinement of the Final Restoration Plan
- 4. Improved transparency and efficiency





#### **Summary**



- Structured Decision-making (SDM)
- Science-based decision Process
- Implementation Plan
- Reinvigorate multi-agency collaborations
- Reinvigorate stakeholder collaborations







#### **THE END**









