

Central Valley Integrated Flood Management Watershed Study (CVIFMS) Overview

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Outline

- Welcome and Introductions
- Vision Statement
- What is CVIFMS?
- Ongoing Studies
- Recent and Current Activities
- Planning Goals
- Initial Array of Measures
- Other Considerations
- Next Steps
- Points of Contact



Welcome and Introductions



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What is CVIFMS?

- Federal companion document to Central Valley Flood Protection Plan, Regional Flood Management Plans and Integrated Regional Watershed Management Plans



BUILDING STRONG®

What is CVIFMS?

- A watershed study focused on Sacramento River Basin to develop a comprehensive basin-wide management plan to:
 - ▶ Assess watershed characteristics and conditions
 - ▶ Identify watershed issues/problems
 - ▶ Develop, evaluate and prioritize conceptual alternatives, including structural and non-structural measures
 - ▶ Incorporate public input and involvement
 - ▶ Identify potential “spin-off” projects under Federal, State and/or local authorities
- San Joaquin Basin – next phase



Vision Statement

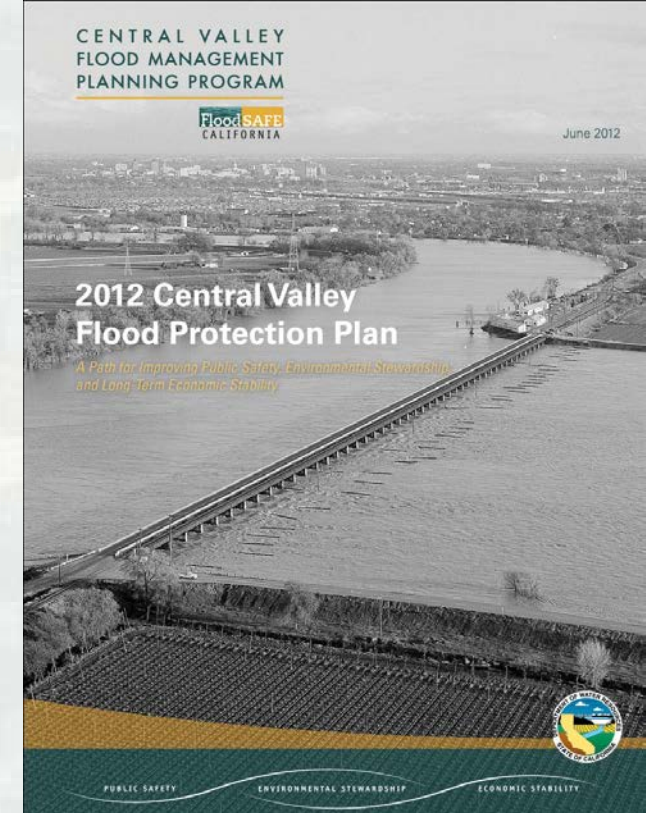
The Federal and State governments share a vision for an integrated flood management system in the Central Valley to provide for safe, healthy and thriving communities while protecting and restoring the environment. The problem is so overwhelming that achievement of this shared vision can only be through pursuit of mutual priorities. The State's flood risk management priorities of public safety, environmental stewardship and economic stability match the Federal administration's priorities of protecting the American people, restoring and protecting the environment and improving the nation's economy.



Ongoing Efforts

Leverage existing information and models from State and USACE projects, including, but not limited to:

- Central Valley Flood Protection Plan
- Basin-wide feasibility studies
- Bay Delta Conservation Plan
- Regional Plans
- Sutter Basin Project
- Yuba River General Reevaluation Project
- Yuba River Ecosystem Restoration Study
- West Sacramento General Reevaluation Study
- American River Watershed Program: Common Features and Folsom Dam Joint Federal Project
- American River Common Features General Reevaluation Study
- Sacramento River Bank Protection Project
- Cache Creek Feasibility Study
- Delta Islands and Levees Feasibility Study
- Sacramento-San Joaquin Comprehensive Study



Recent Activities

- Held a series of CVIFMS Plan Formulation meetings (Project Delivery Team level, including representation from DWR) to formulate a complete range of measures, and apply those measures to locations within the watershed
- Drafted required read-ahead materials to meet requirements of Vision Milestone



Current Activities

- With input from stakeholders, developing full list and associated map of potential features by focal areas within watershed for use in screening, prioritization and formulation of conceptual alternative plans



Current Activities Continued

- Working on stakeholder outreach and communication plan with the Conflict Resolution and Public Participation Center of Expertise (CPCX) and DWR
 - ▶ Utilize existing communication network
 - ▶ Provide informational updates via existing meetings and venues
 - ▶ Initial letters to stakeholders sent in February
 - ▶ Initial public meetings in March
 - ▶ Engage with sister Federal agencies such as EPA, BoR, USFWS, NMFS, BIA and tribes



Planning Goals

- Reduce the risk to public safety from flooding in the Sacramento River Basin;
- Reduce the risk of damages to residential, agricultural and commercial/industrial areas, and roads and other critical infrastructure due to flooding;
- Restore aquatic habitat for the Sacramento River ecosystem;
- Restore natural stream processes in the Sacramento River;
- and
- Improve water supply reliability and availability



Initial Array of Flood Risk Management Management Measures

- | | |
|---|---|
| <ol style="list-style-type: none">1. Widen bypasses2. New bypasses3. Modify weirs4. Optimize operation of weirs5. Automate weir operations6. Remove/modify obstructions7. Raise/strengthen existing levees8. New levees9. Setback levees10. Coordinated emergency response plans | <ol style="list-style-type: none">11. Flood recovery plan12. Floodplain management plan13. New floodplain storage14. Purchase flowage easements15. Re-operate reservoirs16. Raise existing dams17. Forecast-based reservoir operations18. Re-allocate storage in reservoirs19. Construct new dams |
|---|---|



Initial Array of Ecosystem Restoration Management Measures

- | | |
|---|---|
| <ol style="list-style-type: none">1. Increase shaded riverine aquatic habitat2. Increase riparian habitat3. Increase perennial marsh habitat4. Impoundments for wetlands5. Restore natural bank habitat6. Re-create channel meanders7. Remove barriers to channel migration8. Lay-back banks to connect with floodplain9. Terrace floodplains | <ol style="list-style-type: none">10. Re-contour floodway11. Remove barriers to fish passage12. Screen pump diversions13. Extend floodplains/expand floodway14. Set back levees15. Notch weirs16. Remove non-native species17. Reservoir re-operation18. Low flow channel in bypasses |
|---|---|



Initial Array of Water Supply Management Measures

1. New dams that include water supply purpose
2. Re-operate existing dams to conserve more water
3. Enhance/increase groundwater percolation
4. Re-allocate storage in reservoirs
5. Improve existing water conveyance system



Other Considerations

- Strategic Watershed Governance
- Regional Permitting
- Timing of State and Local Actions
(Basin-Wide Feasibility Studies / Regional Flood Management Plans / Near-term Implementation)



Next Steps

- Vision Milestone
 - ▶ Purpose - define overall vision of stakeholder group and present study framework
 - ▶ Clearly identifies how the framework and associated activities support the collaborative watershed vision
- Stakeholder/Public Input/Involvement



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