Central Valley Flood Protection Board Update

December 19, 2014

Presented by:

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Today's Discussion

Where We've Been

- 2017 CVFPP Roadmap

Where We Are

- Overview: Basin-Wide Feasibility Studies

Where We're Going

- Preliminary BWFS Approaches

Where We've Been

2017 CVFPP Roadmap

2017 CVFPP Update

Chapter 1 Context	Setting Historical Context
Chapter 2 Converging	Summary of Refinements and Areas of Alignment
Chapter 3 System Management	Strategies to Improve System Management
Chapter 4 Implementation Timing	Investment Approach
Chapter 5 Measuring Value	Tracking, Reporting of Investment Actions & Results

One Process, Many Activities

CVFPP Assessment

- BWFS System Performance Analysis
- RFMP Regional Visions and Priorities
- Conservation Strategy
- O&M
- Safety & Risk
- Climate Change
- Long-term Economic Consequences of Flooding
- USACE Feasibility Studies

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Where We Are

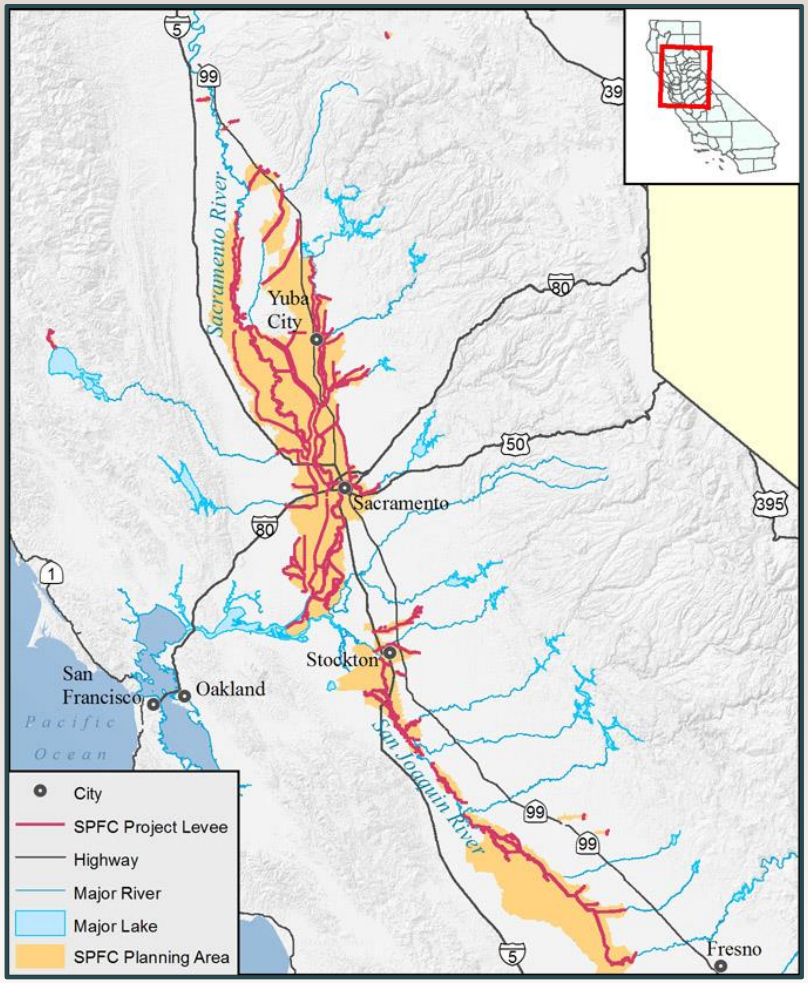
Overview: Basin-Wide Feasibility Studies

BWFS Purpose & Goals

- Refine system elements identified in the 2012 CVFPP
- Formulate system configurations in Sacramento River and San Joaquin River Basins
- Inform long-term financing and implementation strategies for the SSIA and the 2017 CVFPP Update
- Define a process to integrate RFMP results

BWFS Scope & Desired Outcomes

- Interim Step in 2017 CVFPP Update
- Scope is limited to improving system performance through bypass or weir improvements
- Multi-benefit actions with system-scale hydraulic, economic and ecosystem benefits



System Configurations

- "General Plans" that refine the State's vision for implementing SSIA outline how individual elements/projects fit together
- Packages of structural and nonstructural actions
- Flexible to account for new information and changes in priorities or systemwide needs
- Informed by regional priorities

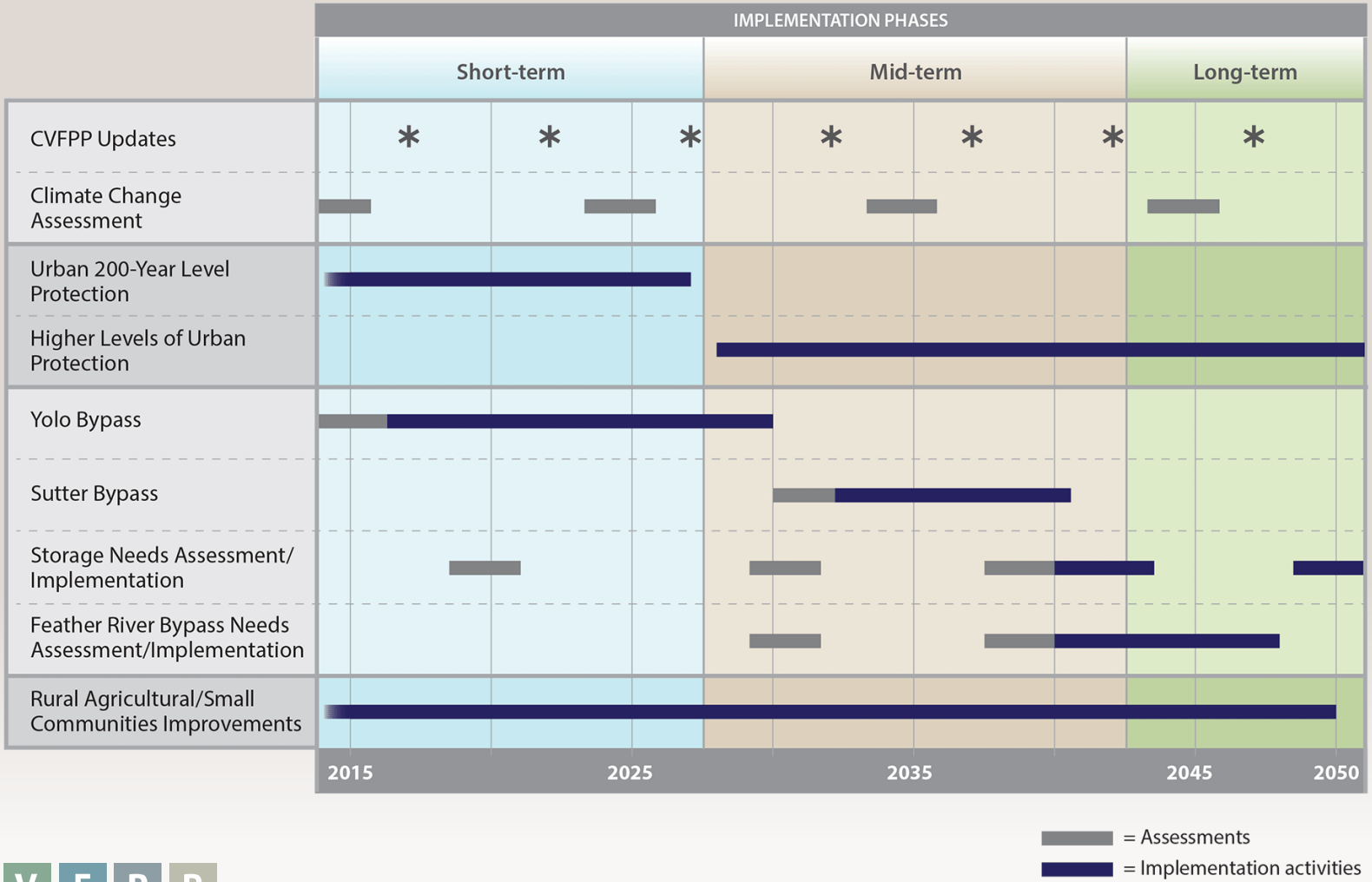
Technical Work Underway

Chapter 2 Converging

Chapter 3 System Management

- Formulating and evaluating several system configurations in each basin
- Technical evaluations ongoing
  - Updated hydrology, including climate change effects
  - With-project hydraulics and flood damage analyses, including representation of ecosystem elements and regional projects
  - Economic benefits analysis: flood damage reduction and ecosystem benefits and other benefits

CVFPP Phasing Implementation Through Adaptive Management – Sacramento System



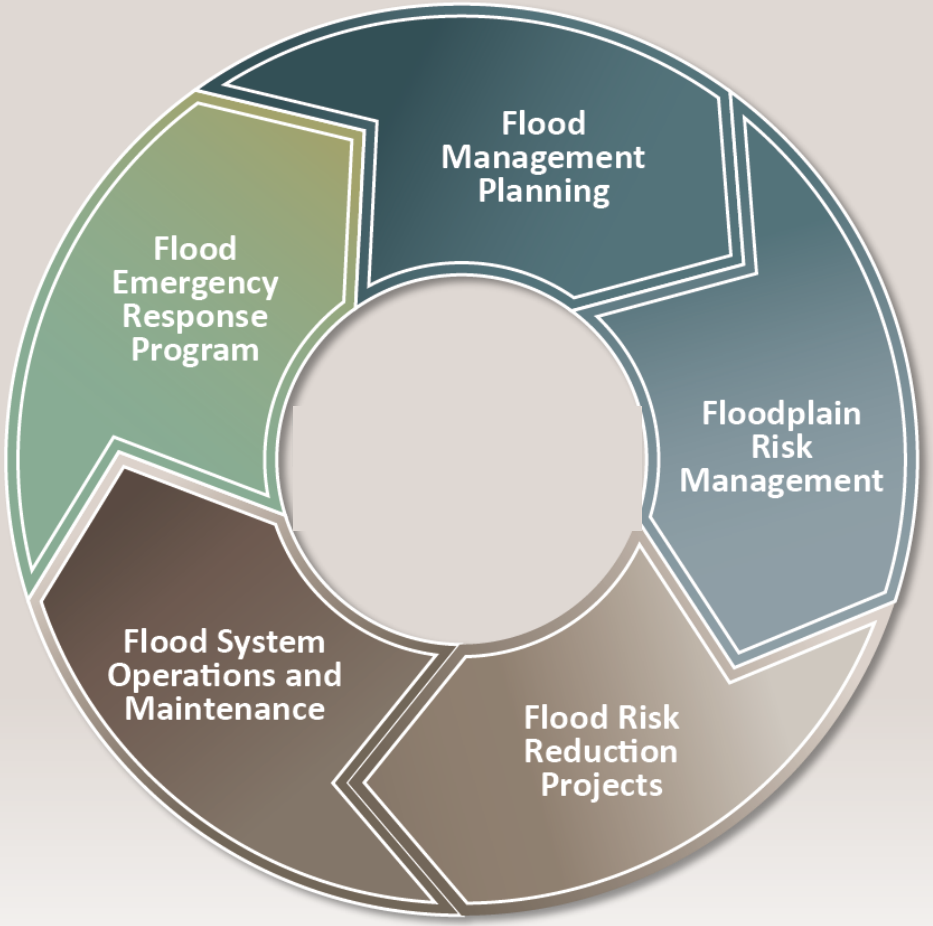
CVFPP

2017 ROADMAP

WBG040714003611SAC

Examples of Implementation Programs

- Delta Levee Subventions
- Delta Special Projects
- Flood Emergency Response Planning
- Flood System Repair
- Rural Levee Repair
- Small Community Risk Reduction
- Small Erosion Repair
- Systemwide Flood Risk Reduction
- Urban Flood Risk Reduction



Where We're Going

Preliminary BWFS Approaches

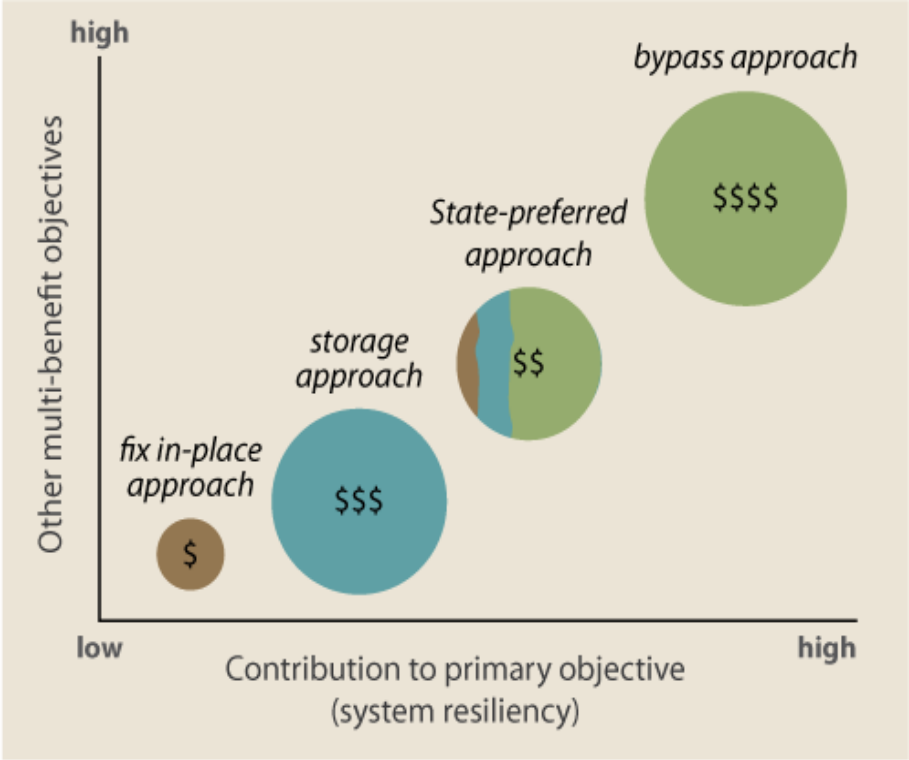
Preliminary BWFS Approaches

- Approach I: Fix in Place
- Approach II: Build Storage to Store Peak Flood Flows
- Approach III: Expand and Extend Bypasses to Increase Conveyance Capacity of the Flood Management System
- Approach IV: Combination of balanced and reasonable actions in Approaches I-III

Identifying the State-Preferred Approach

- Consistency with SSIA
- Hydraulic modeling studies/ geotechnical assessments
- Multi-benefit aspects
- Cost-efficiency
- Flexibility for future improvements

Conceptual Approach



Capital Investment vs. Benefits

Various approaches for improving system element of SSIA

Where are we in the BWFS Process?

2013	2014				2015				2016	2017
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		

Basin Problems, Objectives & System Improvements
Milestone 1

Milestone 2
System Configurations

State Preferred System Configuration
Milestone 3

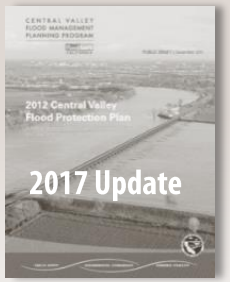
Milestone 4
Public Draft
BWFS Reports
- Sacramento
- San Joaquin

BWFS Report Revisions
Milestone 5

Milestone 6
Final
BWFS Reports
- Sacramento
- San Joaquin

2017 Update
Public Draft

2017 Update
Adoption



Story Focus Shifts with Progress

Activities continue across multiple tasks

Proposed Future Updates

Regular CVFPP and Coordinating Committee updates planned:

Venue	Date	Proposed Topic
Coordinating Committee Meeting	TBD (January 2015)	Summary of DWR's RFMP Phase 1 Content Review
CVFPB Meeting	TBD (January 2015)	BWFS Preliminary Technical Work

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