

Central Valley Flood Protection Board Update

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Today's Discussion

Where We've Been

- State Systemwide Investment Approach (SSIA) Range of Investments Over Time

Where We Are

- Draft Flood Management-Related Policy Issues

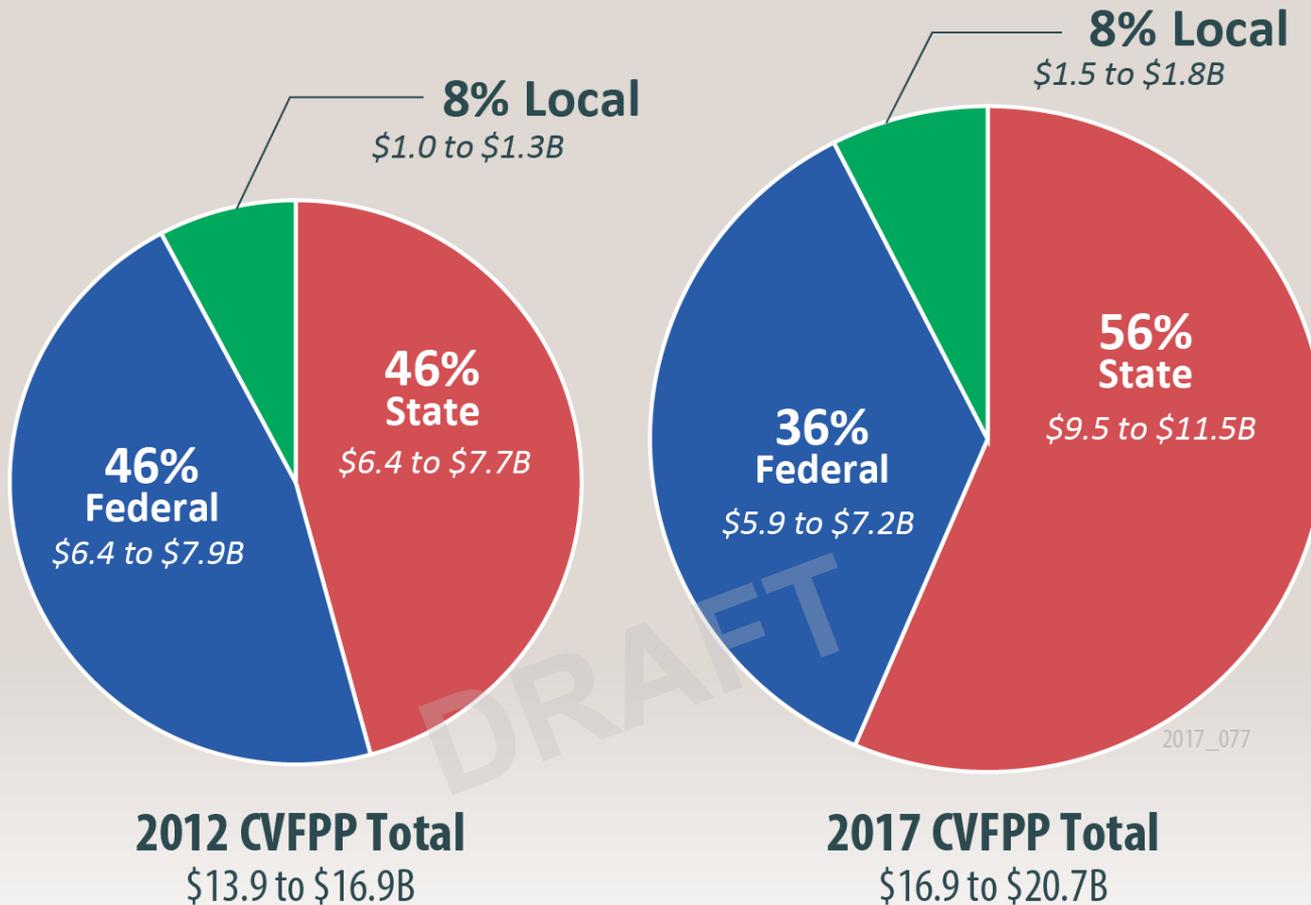
Where We're Going

- Working Draft of the 2017 Update to the CVFPP

Where We've Been

State Systemwide Investment Approach (SSIA) Range of Investments Over Time

2012 vs. 2017 Cost Share Comparisons



Anticipated Funding Sources

STATE

56%

- State General Fund: Increase to \$60M/yr. by 2018, \$130M/yr. by 2027, \$160M/yr. by 2037
- Sacramento/San Joaquin Drainage District: \$25M/year by 2020 (New Revenue Source)
- State River Basin Assessment: \$5M/year by 2027 (New Revenue Source)
- State Flood Insurance Program: \$15M/year by 2027 (New Revenue Source)
- State GO Bonds: \$3B Bonds in 2020, 2030; \$4.5B bond in 2040

FEDERAL

36%

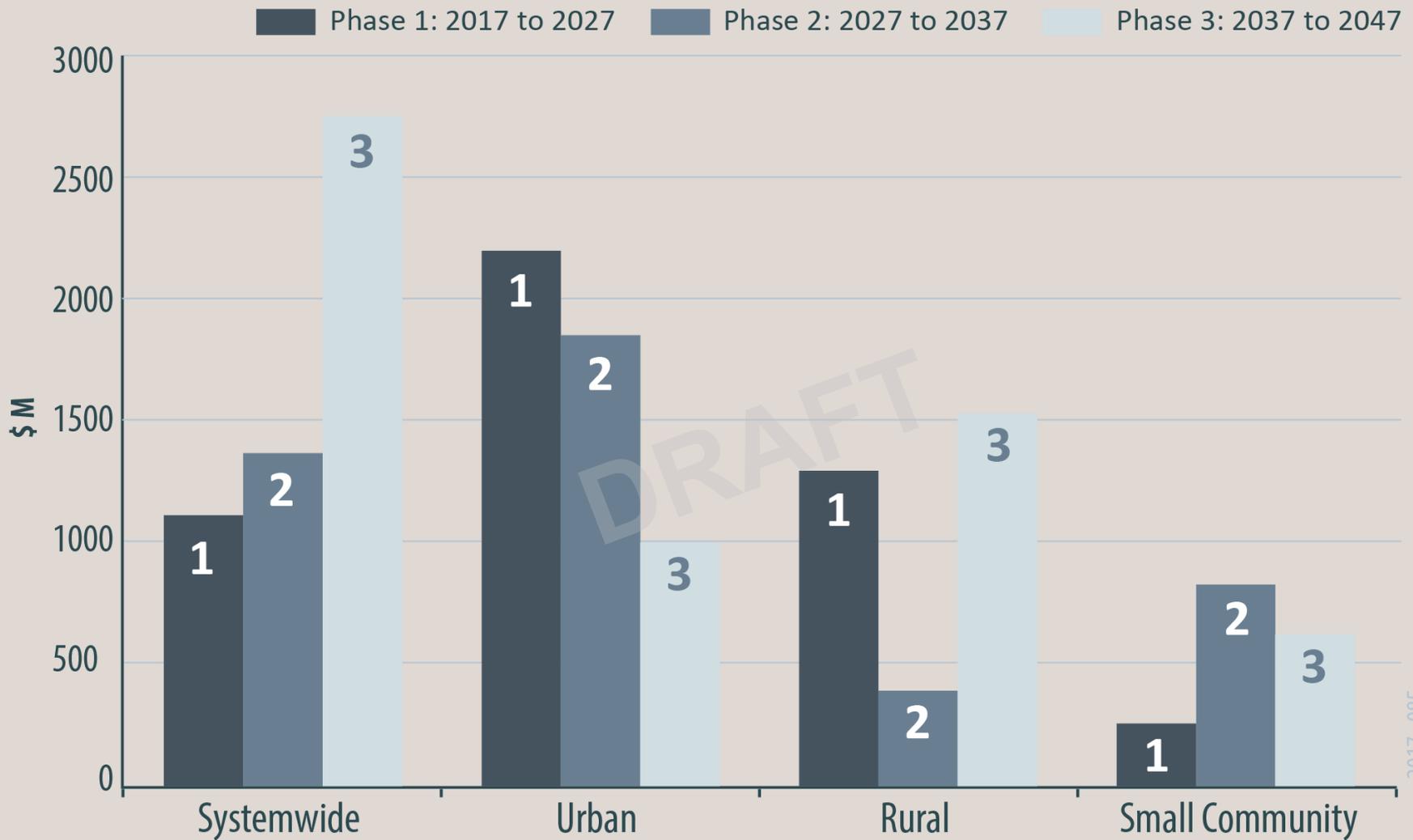
- USACE: Increase to \$180M/year, \$200M/year by 2027, \$220M/year by 2037
- FEMA: Maintain current level of \$10M/year
- (New) American Recovery and Reinvestment Act

LOCAL

8%

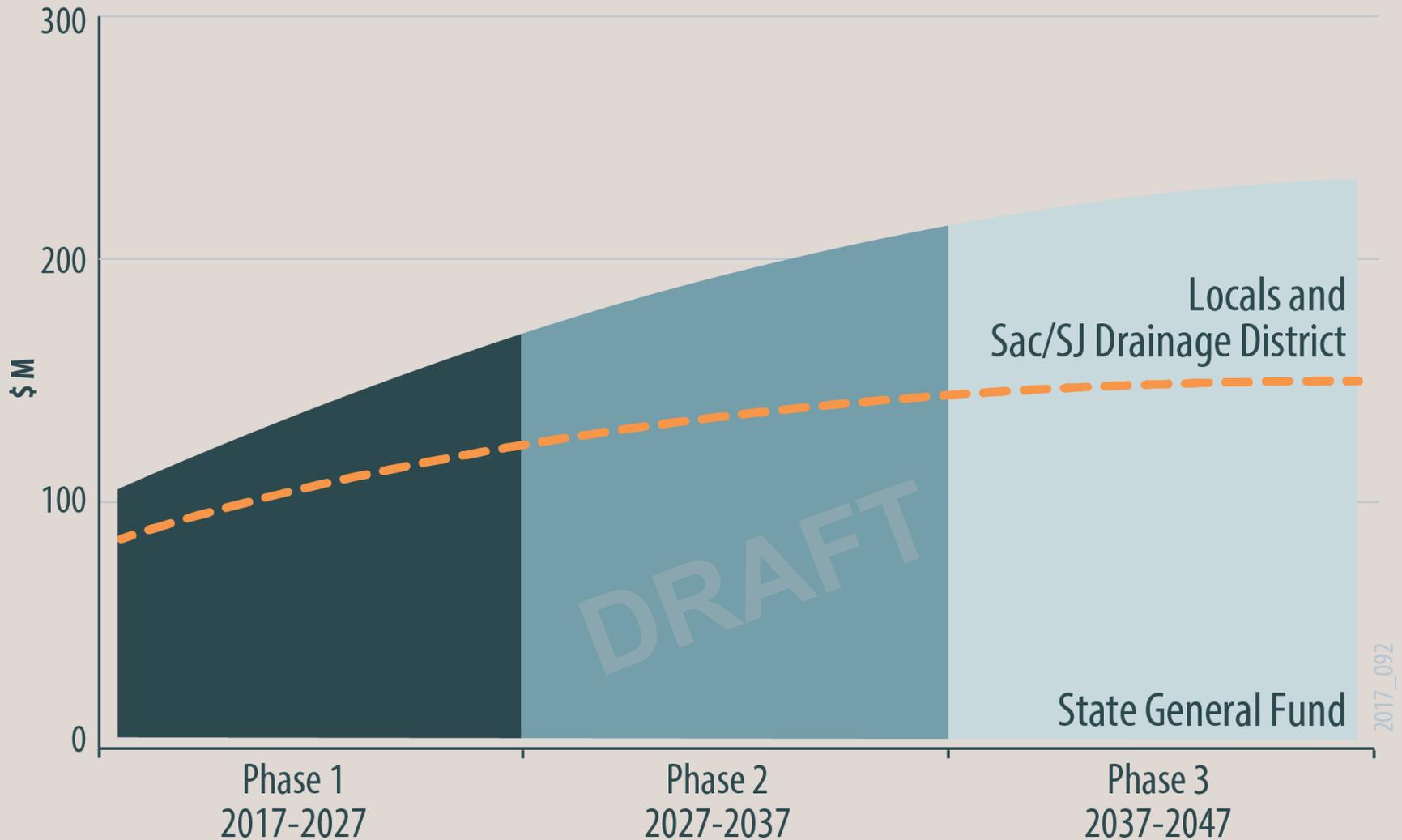
- Local Match for Capital Investment: Increase by \$10M/year by 2037
- Local Assessment for Ongoing Investments: Increase by \$35M/year by 2037

Timing of Capital Investments

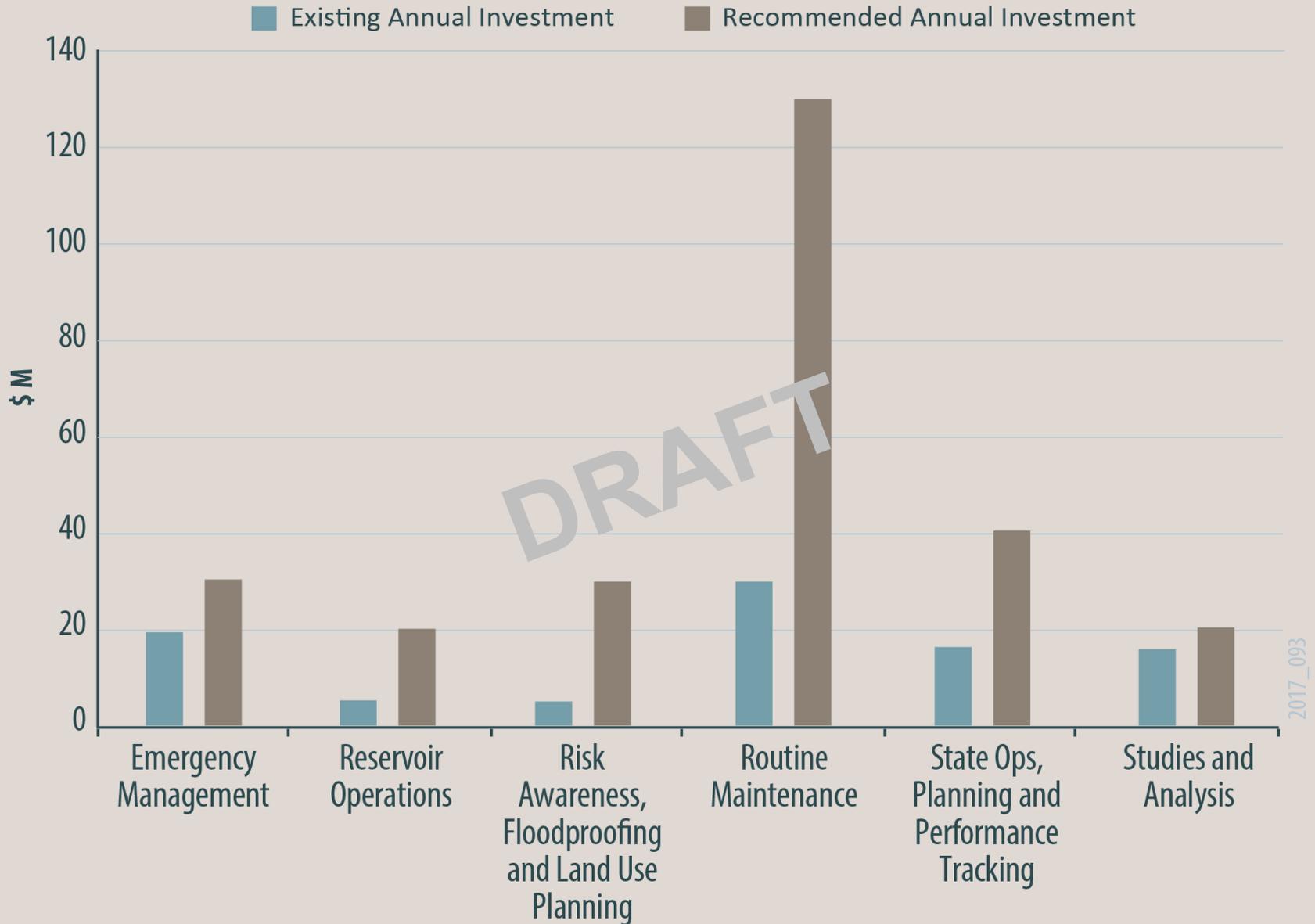


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Timing of Ongoing Investments



Ongoing Investments



Where We Are

Draft Flood Management-Related Policy Issues

CVFPP Relationship with California Water Action Plan

California Water Action Plan Actions	Contribution by CVFPP 2017 Update and Supporting Documents
2. Increase regional self-reliance and integrated water management across all levels of government	The CVFPP and supporting documents identifies multi-benefit portfolios of investment that include integrated water management actions across local, regional, and State entities (Chapter 3).
4. Protect and restore important ecosystems	The Conservation Strategy identifies measurable ecosystem restoration objectives, and CVFPP investment portfolios include ecosystem improvements (Chapters 3 and 4).
6. Expand water storage capacity and improve groundwater management	Sacramento and San Joaquin BWFS identify improvements related to floodwater storage, and management actions to improve groundwater recharge (Chapter 3).
8. Increase flood protection	Increasing flood protection corresponds to the primary goal of the CVFPP (Chapter 1).
9. Increase operational and regulatory efficiency	The Conservation Strategy addresses regulatory issues and efficiency; the O&M Report addresses flood operations, regulatory needs, and efficiency.
10. Identify sustainable and integrated financing opportunities	The CVFPP Investment Strategy addresses sustainable financing needs and strategies (Chapter 4).

Flood-Management Related Policy Issues: 2017 CVFPP Update

Land Use and Floodplain Management



Residual Risk Management



Hydraulic and Ecosystem Baselines and Program Phasing



Operations and Maintenance of the Flood System



Development of Multi- Benefit Projects



Effective Governance and Institutional Support



Coordination with Federal Agencies



Finance



Flood Management-Related Policy Issues: 2017 CVFPP Update

- All 8 policy issues have...
 - Summary statement that identifies the issue (Chapter 1)
 - Brief description and discussion of different perspectives on the issue (Chapter 2)
 - Additional detail and context for the issue to support recommendations (Chapter 3)
 - Recommended actions to address the issue (Chapter 4)

Land Use and Floodplain Management



ISSUE SUMMARY

Ongoing and planned development in the floodplain continues to intensify flood risk.

Sample Recommended Action:

- *Develop a Floodplain Management Strategic Plan that includes specific actions to promote sound management of floodplains. This plan would provide floodplain management assistance and support nonstructural floodplain management actions in coordination with local, State, and federal agencies.*

Residual Risk Management



ISSUE SUMMARY

Flood risk can be reduced, but never eliminated. Commitment to enhanced resilience and public awareness falls short in many areas.

Sample Recommended Action:

- *DWR will perform a climate change vulnerability assessment to identify the anticipated physical extent that FEMA's Special Flood Hazard Areas may change during the design life of future State cost-shared investments.*

Hydraulic and Ecosystem Baselines and Program Phasing

ISSUE SUMMARY

Current regulatory practices hinder the ability to obtain credits for benefits of improvements made early in a long-term program to offset impacts that may occur later in the program, complicating phased implementation of CVFPP multi-benefit improvements.



Sample Recommended Action:

- *The State supports convening a DWR-led workgroup to determine the legal and institutional mechanisms whereby the systemwide elements of the CVFPP can be implemented over many decades, accounting for local and regional benefits and impacts.*

Operations and Maintenance of the Flood System



ISSUE SUMMARY

Underfunding and complex, time-consuming permits lead to a backlog of deferred maintenance and greater risk to life and property.

Sample Recommended Action:

- *Explore developing an SPFC annual subventions program for LMAs not already covered by the existing Delta Subventions program to proactively maintain the SPFC facilities to current State and Federal standards.*

Development of Multi-Benefit Projects



ISSUE SUMMARY

Ineffective institutional frameworks have hindered implementation of multi-benefit actions.

Sample Recommended Actions:

- *Collaborate with stakeholders to explore and advance implementation of Safe Harbor agreements.*
- *Monitor and track outcomes of multi-benefit projects over time.*

Finance



ISSUE SUMMARY

Insufficient and unstable flood management funding has led to delayed investment and greater risk to life and property.

Sample Recommended Action:

- *Outcomes from local, State and Federal investments will be tracked to demonstrate the value of their actions through annual progress reports.*

Stakeholder Feedback (In Progress)

Icon	Policy Area	Key Points
	Land Use and Floodplain Management	<ul style="list-style-type: none">Reaffirm and clarify the CVFPP Land Use Policy to guide State investments.Develop a Floodplain Management Strategic Plan that includes specific actions that must be undertaken to promote sound management with approval for its issuance by the Governor as part of the CVFPP implementation.Assess the benefits and costs of participation in the National Flood Insurance Program and evaluate the feasibility of a State flood insurance program.Continue to work with the Agricultural Floodplain Ordinance Task Force to identify and implement policies and actions that facilitate the wise use of floodplains and preservation of sustainable agriculture.Establish State post-disaster agricultural recovery programs that recognize the importance of sustainable agriculture and the compatibility of agriculture with the wise use of flood plains.
	Residual Risk Management	<ul style="list-style-type: none">Continue to support and invest in activities that manage residual risk both during and after implementation of the 2017 Revised SRA.DWR will work with FEMA to increase investments on non-structural measures and promote multi-hazard mitigation planning.DWR reaffirms the principle that making investments that are sustainable for multiple generations is necessary.
	Hydraulic and Ecosystem Resilience and Program Phasing	<ul style="list-style-type: none">Current law precludes creating the benefits of improvements made early in a long-term program to other impacts that may occur later in the program, so spending phased implementation of CDFPP structural improvements.Convene a DWR-led working group to determine the legal and institutional mechanisms needed to establish a hydraulic baseline and assess the incremental and cumulative hydrologic effects of CDFPP implementation over time.
	Operations and Maintenance of the Flood System	<ul style="list-style-type: none">Work toward securing sufficient and reliable annual funding for proper long-term operations and maintenance.Support a framework for regional consultation and landscape-scale permitting strategies.Create a trading system of CDFPP investments and determine the value that LMAA offers for their investments.Evaluate the feasibility of restoring ecologically-based Multiple Objective O&M program in the SFCC to efficiently and holistically integrate flood system maintenance practices with ecological goals.
	Multi-benefit Projects	<ul style="list-style-type: none">Consistent with the California Water Action Plan, the State will seek additional funding sources to incentivize the planning, design, implementation and long-term management of multi-benefit projects.The State, in coordination with other agencies, will explore regional-scale and long-term permitting mechanisms for projects (and their maintenance) that will allow multi-benefit projects to be more efficiently and effectively implemented and managed.CVFPP and DWR will collaborate with agricultural stakeholders and resource agencies to explore and advance the implementation of multi-benefit projects through Voluntary Local Program agreements.CVFPP and DWR will work with USACE to facilitate processes for making modifications to SFCC facilities that would allow the addition of other project purposes and/or facilitate the incorporation of multiple benefits to the flood system.CVFPP and DWR will coordinate with federal and State agencies on levee and channel vegetation policy and research.In cooperation with the USACE and LMAA, DWR will work to revise flood O&M manuals to incorporate habitat and sensitive species management BMPs, and appropriate, consistent programs, and effective infrastructure, restoration programs, and habitats.DWR will work with resource agencies to make SFCC mitigation banking programs more efficient and effective.DWR will work with resource agencies to make SFCC mitigation banking programs more efficient and effective.DWR will work with resource agencies to make SFCC mitigation banking programs more efficient and effective.
	Governance and Institutional Support	<ul style="list-style-type: none">Provide assistance (technical or financial) to local agencies to advance regional governance within their region, encouraging local agencies to determine for themselves which regional governance structures are most appropriate to facilitate project implementation.DWR will continue to assert the importance of programmatic interactions between federal, state, and local agencies.

- Provided list of 8 policy issues: including summary statement and draft recommendations
- Verbal feedback collected during recent meetings
- Revisions to text ongoing; more to come following stakeholder review

DWR Programs Affected by Flood Policy Issues

Flood Policy Issues



Land Use & Floodplain Management



Residual Risk Management



Hydraulic/Ecosystem Baseline & Program Phasing



Operations and Maintenance of the Flood System



Multi-Benefit Projects



Governance & Institutional Support



Coordination with Federal Agencies



Finance

DWR Implementation Programs

Flood Management Planning	●	◐	●	◐	●	●	●	●
Floodplain Risk Management	●	●			◐	●	●	
Flood System O&M	◐	●		●	●	●	◐	●
Rural Levee System Repair				●			◐	●
Flood Emergency Response	◐	●					●	●

Flood Projects:

Urban Flood Risk Reduction	●	◐	◐	●	◐	●	●	●
Small Community Flood Risk Reduction	●	◐	●	●	●	●	◐	●
System Implementation Program	●	◐	●	●	●	●	●	●
Delta Special Projects	◐		◐	◐	●		◐	●

Key:

● Implementation program is greatly affected by this issue

◐ Implementation program is somewhat affected by this issue

Effectiveness of CVFPP Supporting Efforts to Address Flood Policy Issues

Flood Policy Issues



Land Use & Floodplain Management



Residual Risk Management



Hydraulic/Ecosystem Baseline & Program Phasing



Operations and Maintenance of the Flood System



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CVFPP Supporting Effort

Basin-Wide Feasibility Studies	●		●		●		●	◐
Regional Flood Management Plans	●	●		◐	◐	◐	◐	◐
Conservation Strategy			●		●	◐	●	
Climate Change Analyses	◐	◐	●	◐				
OMRR&R Cost Evaluation TM		●		●	●	●	●	●
SPFC Descriptive Document Update		●		◐		◐	◐	
CVFPP Supplemental Programmatic EIR	◐		●					
Flood System Status Report Update	◐		◐	◐			◐	
BWFS Atlases			●				◐	
CVFPP Investment Strategy		●	●	●	◐		◐	●

Key:

● Supporting effort greatly informs overall efforts on this key issue

◐ Supporting effort somewhat informs overall efforts on this key issue

Where We're Going

Working Draft of the 2017 Update to the CVFPP



Anticipated CVFPP Schedule

Date	Milestone
August – October 2016	<ul style="list-style-type: none">• Internal DWR/Partner Agency Working Draft Briefings
October 2016	<ul style="list-style-type: none">• Working Draft to Central Valley Flood Protection Board Members, Stakeholders
December 2016	<ul style="list-style-type: none">• Anticipated Public Draft Release
January – May 2017	<ul style="list-style-type: none">• 60-day Public Review Period; Consideration of Comments
June 2017	<ul style="list-style-type: none">• Anticipated CVFPB Adoption

Working Draft

Working Draft of the 2017 Update

Available to Stakeholders → Oct. 28, 2016
Comments due November 28

- Stakeholders are federal, State, local, tribal, and agricultural and non-governmental interests actively engaged with DWR and CVFPB either:
 - To help develop the 2017 CVFPB Update
or
 - By providing extensive comments regarding SPFC implementation programs, or management of SPFC

Public Draft

Public Draft of the 2017 Update

Anticipated Release → Late December 2016
60-day public comment period

- Formal public review and comment process will coincide with release of Draft Supplemental Environmental Impact Report
- Series of public hearings to be held in 2017

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