

Flood Management Workshop



California Water Plan Update 2009
November 10, 2008

Agenda

- Review Flood Content in Volume 1
- Flood Resource Management Strategies
 - Combine as a single Strategy
 - Retain two Strategies
- Identification of Flood Planning Issues

Flood Management in Update 2009

- Volume 1: Strategic Plan
 - Companion Plans: FloodSAFE
- Volume 2 : Resource Mgmt Strategies
 - New Flood Strategies
- Volume 3: Regional Reports
 - New Flood Content
- Volume 4: Reference Guide
- Volume 5: (Online) Technical Guide

Flood Management in Update 2009

- Volume 1, The Strategic Plan
 - Chapter 1: Introduction
 - Chapter 2: Imperative to Act
 - Chapter 3: Companion State Plans
 - Chapter 4: California Water Today
 - Chapter 5: Managing for an Uncertain Future
 - Chapter 6: Integrated Data and Analysis
 - Chapter 7: Implementation Plan

Comments, Concerns or Questions?



Update 2005 Resource Strategies

Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

Improve Operational Efficiency & Transfers

- Conveyance
- System Reoperation
- Water Transfers

Increase Water Supply

- Conjunctive Management & Groundwater Storage
- Desalination –Brackish & Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage

Improve Water Quality

- Drinking Water Treatment
- Groundwater Remediation
- Matching Quality to Use
- Pollution Prevention
- Urban Runoff Management

Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives
- Ecosystem Restoration
- Floodplain Management
- Recharge Areas Protection
- Urban Land Use Mgmt
- Water-Dependent Recreation
- Watershed Management

Update 2009 Strategies

- Reduce Water Demand
- Improve Operational Efficiency & Transfers
- Increase Water Supply
- Improve Water Quality
- Practice Resource Stewardship
- Improve Flood Management



Flood Management Strategies

- National Unified Program for Floodplain Management:
 - Modify Flooding
 - Preserve Natural Floodplain Functions
 - Modify Flood Impacts
 - Modify Susceptibility to Flood Damage



Flood Management Strategies (2)

- Resource Management Strategies:
Initial Draft
 - Modify Flooding
 - Preserve & Restore Natural Resources
 - Modify Flood Impacts
 - Modify Flood Susceptibility



Flood Management Strategies (3)

- Resource Management Strategies:
Working Draft
 - Flood Flow Modification
 - Floodplain Restoration
 - Flood Impact Modification
 - Flood Susceptibility Modification



Flood Management Strategies (4)

- Resource Management Strategies
Pre-Admin Draft:
 - Flood Flow Management
 - Flood Impact Reduction



Integrated Flood Management

- Flood-Focused Strategies
 - Flood Flow Management
 - Flood Impact Reduction
- Other Resource Management Strategies
 - Conjunctive Management
 - Conveyance
 - Ecosystem Restoration
 - Forest Management
 - Land Use Planning and Management
 - Surface Storage
 - System Reoperation
 - Urban Runoff Management
 - Watershed Management

Flood Management Strategies (6)

- Resource Management Strategies Proposal:
 - Flood Risk Management



Flood Management Strategies (6)

- Resource Management Strategies, Public Review Draft:
 - Two Strategies?
 - Floodflow Management
 - Flood Impact Reduction
 - One Strategy?
 - Flood Risk Management



Comments?



Flood Management: Looking Forward

- FloodSAFE
 - Central Valley Flood Protection Plan
 - Statewide Flood Management Planning Report
- Integrated Regional Water Management
- CWP Update 2013

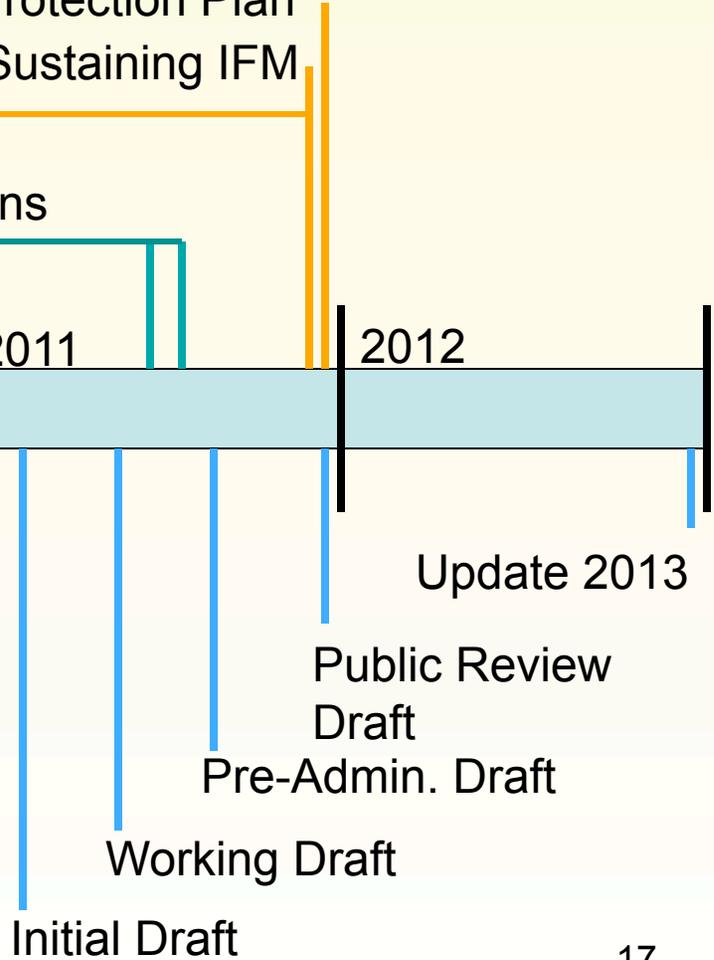
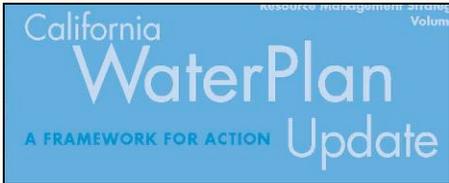
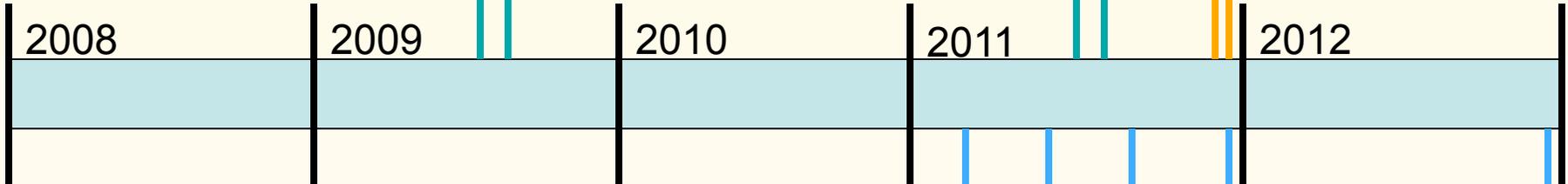
CWP Update 2013



Central Valley Flood Protection Plan
Recommendations for Sustaining IFM



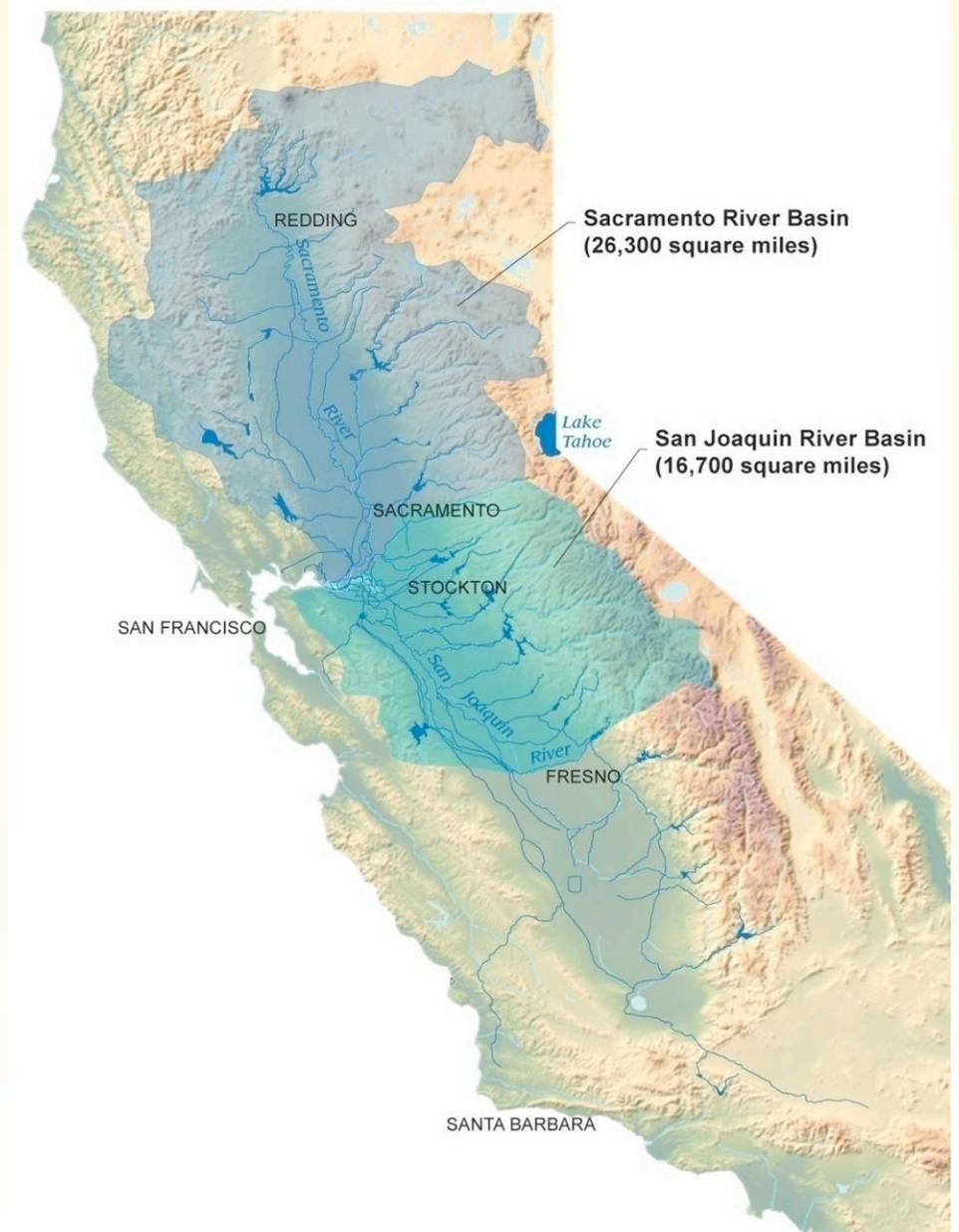
Individual IRWM Plans



Central Valley Flood Protection Plan

- An integrated flood management plan for the Sacramento-San Joaquin River Flood Management System
- Focused on the State-Federal system
- Required to be developed by January 1, 2012

Sacramento – San Joaquin Valley



Statewide Flood Planning

- Conduct New Statewide Evaluation
 - *“Recommendations for Improving and Sustaining Integrated Flood Management in California”*



Statewide Flood Planning (2)

- Assess significant flood risks
- Inventory existing and future flood management needs
- Identify opportunities for integrated flood management



Statewide Flood Planning (3)

- Formulate potential flood management solutions
- Develop regional cost estimates
- Develop a finance strategy to fund improvements



Flood Management in Integrated Regional Water Management

- Flood management strategy one of the original Prop. 50 requirements
- Flood content in existing plans varies
- How to enhance regional flood management?

Flood Management in IRWM (2)

- Implementation Funds
 - IRWM (Prop. 84)
 - Stormwater (Prop. 1E)
- Planning Guidelines
 - Draft / Final
 - Spring / Summer '09
- Planning Funds
 - \$30 million



Flood Management in IRWM (3)

- Plan Standards
 - Regional Water Management Group
 - Governance
 - Regional Description
 - Objectives
 - Water Management Strategies
 - Integration
 - Regional Priorities

Flood Management in IRWM (4)

- Plan Standards
 - Implementation
 - Project Review Process
 - Impact and Benefits
 - Technical Analysis
 - Plan Performance
 - Data Management
 - Financing

Flood Management in IRWM (5)

- Plan Standards
 - Relation to Statewide Water Management
 - Central Valley Flood Protection Plan
 - Relation to Local Land Use Planning
 - Stakeholder Involvement
 - Coordination
 - Climate Change

Questions?



Flood Planning in California

- What are the relevant flood planning issues?
 - Statewide
 - Central Valley
 - IRWM



Flood Planning in California

■ Comments on RMS Narratives

The following table includes selected comments and recommendations that were received during the development of the Resource Management Strategies related to flood management. Potential responses to these comments include:

No Action Proposed

Included or Underway: the comment or recommendation is already addressed by text in the CWP (as clarified in the notes), or is being addressed by an activity or program that is already underway, or conflicts with existing text in the flood resource management strategies (and therefore is not being incorporated into the document).

Legislation: Recently adopted legislation generally addresses the comment

Refer for Action

Statewide Planning: DWR should consider inclusion of the recommendation in the upcoming report on Statewide Flood Planning (tentatively titled "Recommendations for Sustaining Integrated Flood Management") which is proposed to begin in early 2009 and be completed by January 1, 2012. Note that the preparation of this report was already included in the recommendations for both the Floodflow Management and Flood Impact Reduction strategies.

Central Valley FPP: Consistent with guidance from the legislature, this issue will be considered in the Central Valley Flood Protection Plan, which was included in the RMS recommendations.

IRWM: DWR should consider inclusion of this issue in the guidance provided for expansion of regional flood planning in Integrated Regional Water Management (IRWM) plans that would accompany grant guidelines.

Revision to Update 2009

Flood RMS: A new revision to one or both flood-related Resource Management Strategies is proposed

Other RMS: The comment will be forwarded to the author of another RMS for consideration

Related Action: Revision of the appropriate Regional Reports is proposed

Comments and Recommendations	No Action Proposed		Refer for Action			Revision to Update 2009				Notes
	Included or Underway	Legislation	Statewide Planning	Central Valley FPP	IRWM	Flood RMS	Other RMS	Companion Plans	Regional Reports	
1. Develop State guidance for the use of Land Use Planning and Controls aimed at encouraging compact sustainable development in a manner that results in reduced water demand, improved water quality, reduced flood risk and lower greenhouse emissions. Integration with other resource management strategies in the Water Plan would be incorporated in the guidance.							X			Refer to Land Use Planning and Management RMS for consideration
2. Develop a strategic plan for housing that looks at the constraints and opportunities for providing housing throughout the state, with an estimate of the services, infrastructure and funding that would be necessary to accommodate the projected population, and a review of state laws that conflict with the ability to build more housing.							X			Refer to Land Use Planning and Management RMS for consideration

Potential Flood Planning Issues

As part of the outreach effort for Update 2009 of the California Water Plan, comments on the flood-related Resource Management Strategies have resulted in the identification of a wide range of potential flood management planning issues. This document identifies potential planning issues that could be addressed as part of:

Statewide Flood Management Planning: DWR should consider this issue in the upcoming report on Statewide Flood Management Planning (tentatively titled “Recommendations for Sustaining Integrated Flood Management”) which is proposed to be completed by January 1, 2012.

Central Valley FPP: Consistent with guidance from the legislature, this issue will be considered in the Central Valley Flood Protection Plan (CVFPP)

IRWM: DWR should consider inclusion of this issue in the guidance provided for expansion of regional flood planning in Integrated Regional Water Management (IRWM) plans that would accompany planning grant guidelines.

Issues and Recommendations	Planning Activity			Notes
	Statewide Planning	Central Valley FPP	IRWM	
.. LAND USE				
. Develop new State General Plan Guidelines to include a floodplain management element that reflects sustainable floodplain management.	X			Per the FloodSAFE strategic plan, DWR is planning to provide technical assistance to local agencies to assist their compliance with AB 162.
. Assist communities to better understand how to incorporate future flood risk reduction and natural floodplain enhancement efforts in planning, development and zoning decisions, including the following local strategies:	X	X	X	Risk Notification Program, Best Available Maps, and Alluvial Fan Task Force will all communicate flood risk information to the public.
. Develop and integrate of floodplain management regulations into local land use and conservation plans.	X	X	X	
.. DEVELOPMENT PLANNING				
. Ensure that 100-year flood risks are fully understood and properly mitigated through the CEQA process and with affirmative findings by the local government at the time new development is approved	X	X	X	
. Require a floodway analysis for all subdivisions and large scale developments proposed for floodprone areas, in addition to developing the 100-year flood data.	X	X	X	
. Prohibit construction in the 100-year floodplain. Require all new development to result in no impact on water surface elevations and velocities.	X	X	X	
. Incorporate the concept of No Adverse Impact (NAI) in local zoning ordinances, subdivision regulations, building and health codes and special purpose ordinances designed to protect floodplain resources and provide for flood risk reduction or mitigation.	X	X	X	

Additions to List of Issues?



Looking Forward

- Water Plan
 - Public Review Draft – end of year
 - Spring Regional Workshops
- Central Valley Flood Protection Plan
 - About to Kick-Off
- Statewide Planning
 - Late Spring Kick-Off
 - Extensive Outreach
- IRWM
 - Draft Guidelines Late Spring/Summer