

California **Water Plan**
Highlights

INTEGRATED WATER MANAGEMENT



Update 2009 - Department of Water Resources

California Water Plan
Update 2009

Resource
Management
Strategies

Improve Flood
Management

Plenary Session
October 15, 2009

Public Review Draft

January 14, 2009

SESSION AGENDA

- 1. Welcome and Greetings
- 2. Introduction to Improve Flood Management
- 3. What the water plan says about Improve Flood Management
- 4. Overview of the recommendations by category
- 5. Small and Large Group Discussion

Resource Management 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 – CALFED
- Surface Storage - Regional/Local

Improve Water Quality

- Drinking Water Treatment and Distribution
- Groundwater/Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Urban Runoff Management

Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management
- Forest Management

Floodplain Management

IMPROVING FLOOD MANAGEMENT

- Involves application of structural and non-structural methods, including land use practices and disaster preparedness and recovery measures, to reduce the risks to lives and property from flood events. These strategies also have the potential to provide other water resource benefits including water supply reliability, water quality enhancements, and ecosystem restoration.
- *Included in this strategy is: Flood Risk Management*

KEY ELEMENTS OF THIS STRATEGY

- *Specifically intended to enhance flood protection*
- *Includes projects and programs that assist individuals and communities to manage floodflows and to prepare for, respond to, and recover from a flood.*
- *Essential component of integrated flood management, a process that promotes a comprehensive approach that considers land and water resources at a watershed scale within the context of integrated regional water management*
- *Aims to maximize benefits of floodplains, minimize the loss of life and damage to property from flooding, and recognize the benefits to ecosystems from periodic flood events.*

Recommendations Categories

- **FUNDING / INCENTIVES** – the things State Agencies can do to support state activities or activities by others, either by providing funds or other forms of incentives.
- **RESEARCH / DATA DEVELOPMENT** – the areas where more information is needed in order to improve and/or maintain implementation of the strategies.
- **GOVERNANCE/ POLICY AND LAW** – the areas where the organizational structures, policies, protocols and laws that affect the strategy can be enhanced.

Recommendations Categories

- **EDUCATION / OUTREACH** – areas where active outreach and education could result in better implementation of the strategy.
- **PLANNING** – Articulates approaches for future action, integrating activities of others, and using system level approaches to improve and/or maintain implementation of the strategy.

FUNDING / INCENTIVES

- Develop incentives creation and maintenance of IRWM plans.
- Establish long-term buyback programs to acquire properties immediately adjacent to levees and other structural facilities to facilitate the eventual removal.
- Develop recommendations for streamlined review and permitting that result in time and cost savings.
- Explore funding options for local government preparation of revised General Plans.

RESEARCH / DATA DEVELOPMENT

- Develop comprehensive flood management database.
- Map 200-year flood plains throughout the state, evaluate costs and benefits of establishing 200-year flood as the standard for urban areas statewide.
- Utilize comments/recommendations on FRM strategy to inform other on-going activities.

GOVERNANCE/ POLICY & LAW

- Enact legislation which clarifies liability for flood management facilities and addresses “reasonable impacts” downstream.
- Develop guidelines/MOU’s/JPA’s that assign responsibilities for construction, O&M including liability issues.
- Develop post-flood recovery guidelines at state, regional and local levels. Creation of a statewide CA Recovery Authority should be considered.

GOVERNANCE/ POLICY & LAW

- Local land use agencies should prohibit construction of new critical public facilities within 200-year floodplain.
- Promote preservation of existing flood plains and analyze interconnection with natural flood plains and structural flood management systems.

EDUCATION/ OUTREACH

- Work with FEMA to expedite review/update of FIA maps.
- Work with CalEMA and DHS to ensure consistent approach to disaster preparedness plans.
- Provide flood risk information to public to facilitate informed land use decisions.

PLANNING

- Initiate climate change adaptation strategy work, NAS expert panel on sea level rise, issue interim guidance designated coastal flood plain areas.
- Research potential effects of global climate change on precipitation and runoff patterns and disseminate revised flood projections to plan for flood events.
- Description of current status of Central Valley flood management system and recommend changes to the system.

PLANNING

- Prepare report of statewide flood risks and opportunities and needs for integrated flood management.
- Develop a financing strategy to address statewide flood management needs.
- Integrate structural projects into a comprehensive integrated flood management approach that takes into account the watershed.

PLANNING

- Prepare revised general plans that respond to statutory mandates to address flood risks.
- Use latest flood plain maps available in CEQA reviews.

Instructions for Break Out Sessions

> Are there any red flags related to this strategy group?

What should the next steps be to implement this at the State and Regional levels?

What are measures of success for this strategy group?

Note: Later in the day we will discuss things you would like to see in Water Plan Update 2013. As you review these strategies, consider if there is any topic you would like to raise in the Afternoon discussion.