

# Water Resources and Policy Initiatives

## *Update and Overview – March 3<sup>rd</sup> 2010*



**David F. Zoldoske, Executive Director**  
**California State University**

# CSU Resources Related to WATER

- ⇒ 23 campuses located throughout the state that **understand local water issues** and one size does not fit all
- ⇒ Primarily an **applied research institution** experienced assisting local stakeholders in solving problems
- ⇒ History of bringing **academic neutrality** into the collaborative process assisting diverse interests in addressing complex issues
- ⇒ Record of providing **credible and reliable data**

# Vision Statement

Contribute to achieving **long-term sustainable water supplies for California through education, research and policy development** while balancing the needs of agricultural, environmental and urban concerns

# *Mission*

- ⇒ **Provide critical faculty and staff based expertise** to support California's need for appropriate and sustainable water resources in the 21<sup>st</sup> Century
- ⇒ Promote education, training and professional capacity development with the water industry, governmental agencies, and the wider community
- ⇒ Develop new and advanced water technologies and services that will help drive economic development and job creation

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# WRPI Committees

## ⇒ Conference Committee

- ↳ Plans annual conference

- ↳ Selects speakers

- ↳ Determines “overall look and feel of the event”

- ✓ Note: Special thanks this year to Ramzi Mahmood & his staff at the Office of Water Programs, Sacramento State

# WRPI Committees

## ⇒ Proposal Committee

- ↳ Broad representation of CSU campuses
- ↳ Identifies appropriate funding opportunities
- ↳ Develops and submits multi-campus proposals

✓ Note: This year one “break-out” session is devoted to developing a NSF funded proposal.

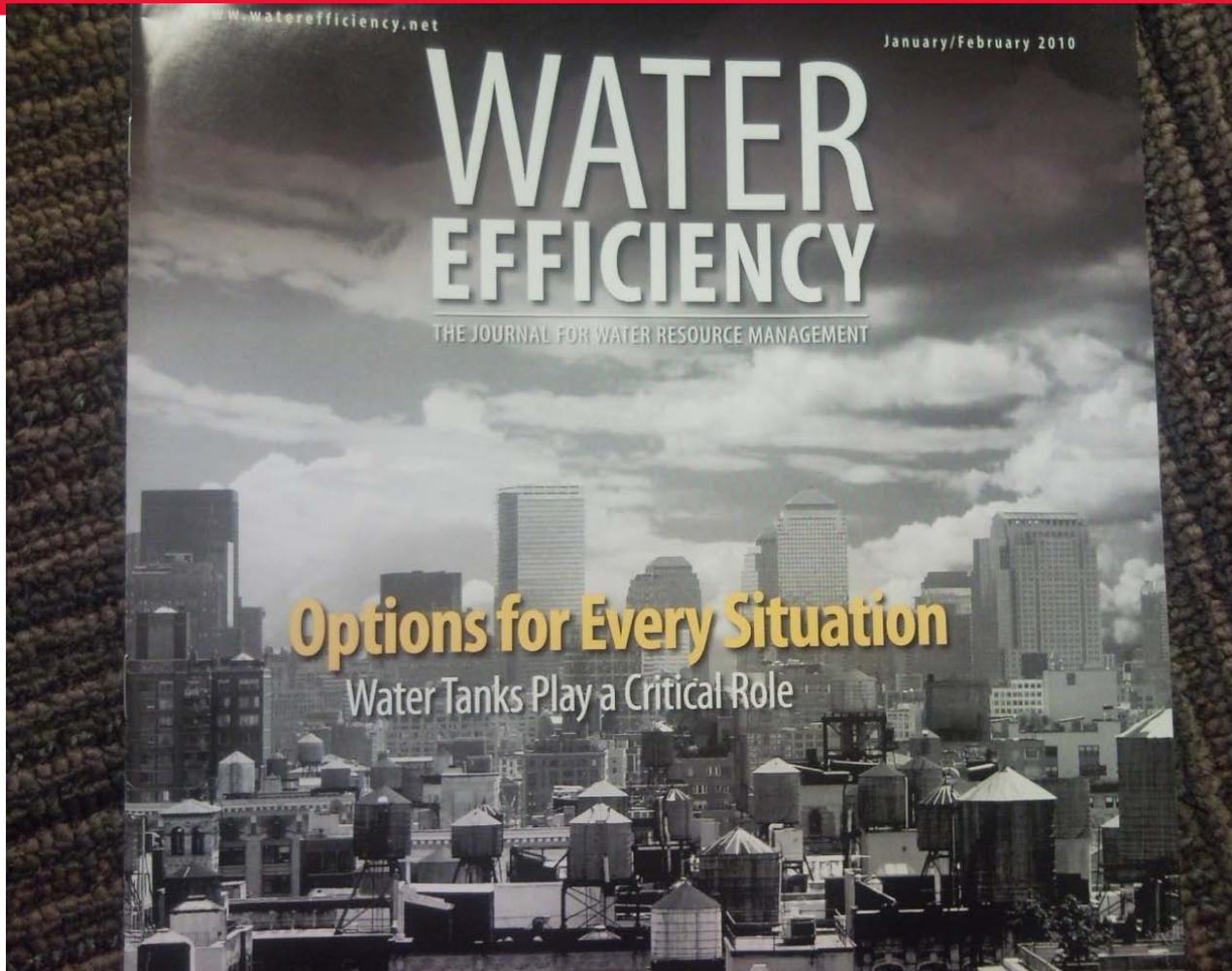
# WRPI Committees

## ⇒ Publication Committee

- ↳ Develop 3,000 word articles written for publication in “Water Efficiency” magazine
- ↳ Four articles to be published in 2010
  - ✓ May/June
  - ✓ July/August
  - ✓ Sept/Oct
  - ✓ Nov/Dec

# Water Efficiency Magazine

[www.waterefficiency.net/](http://www.waterefficiency.net/)



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# Long-term Water Issues Facing California

# 2005 CA Water Supply/Demand

## Supply: Average Year

⇒ <b>Total Precipitation</b>	200MM AF
↳ <i>Captured Runoff</i>	70
↳ <i>Sustainable Groundwater</i>	<u>10</u>
❖ <b>Total Supply</b>	<b>80MM AF</b>

## Utilization: Average Year

↳ <i>Urban (Pop. 36MM)</i>	9
↳ <i>Ag</i>	34
↳ <i>Environmental</i>	<u>39</u>
❖ <b>Total Demand</b>	<b>82MM AF</b>

💣 **Average Overdraft** <2MM AF>

Source: Ca DWR

**Not Sustainable**

# 2030 CA Water Supply/Demand

## Supply: Average Year

⇒ <b>Total Precipitation</b>	<b>200MM AF</b>
↳ <i>Captured Runoff</i>	<i>70</i>
↳ <i>Sustainable Groundwater</i>	<u><i>10</i></u>
❖ <b>Total Supply</b>	<b>80MM AF</b>

## Utilization: Average Year

↳ <i>Urban (pop. 48MM)</i>	<i>12</i>
↳ <i>Ag</i>	<i>34</i>
↳ <i>Environmental</i>	<u><i>39</i></u>
❖ <b>Total Demand</b>	<b>85MM AF</b>

💣 **Average Overdraft** **<5MM AF>**

Source: Ca DWR

**Not Sustainable**

# ***2009 Comprehensive Water Package***

## ***Special Session Policy Bills and Bond Summary***

*Prepared for:*

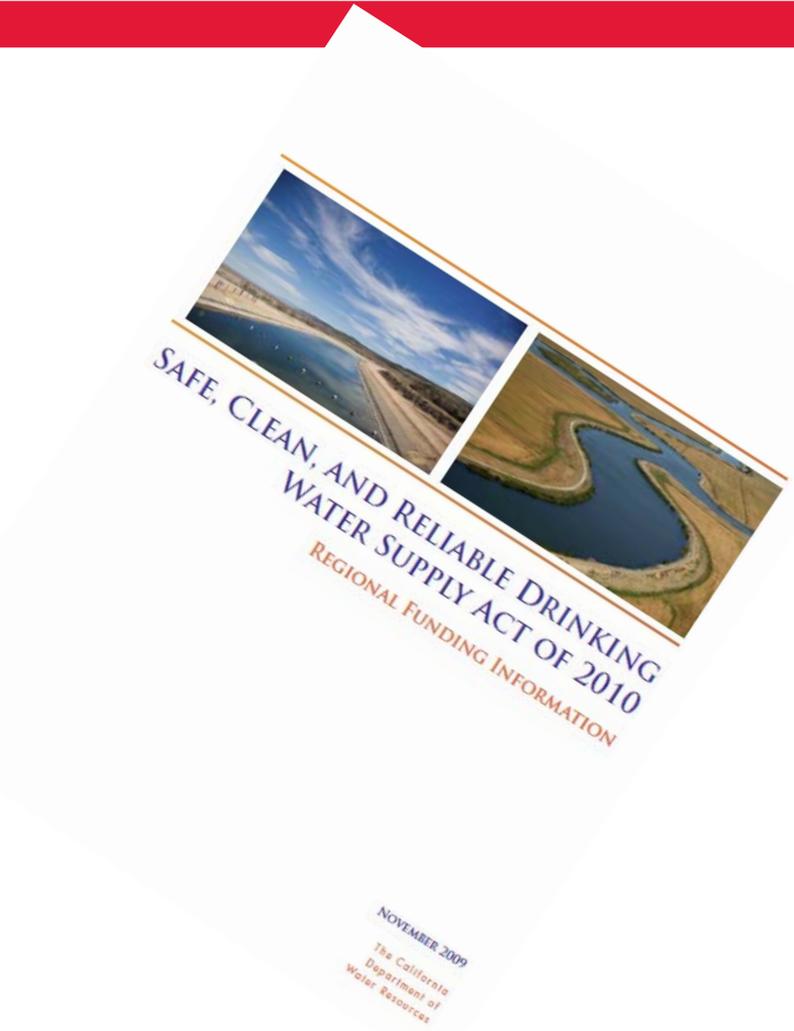
**California Water Plan State Agency Steering Committee**

*Prepared by*

**California Department of Water Resources**

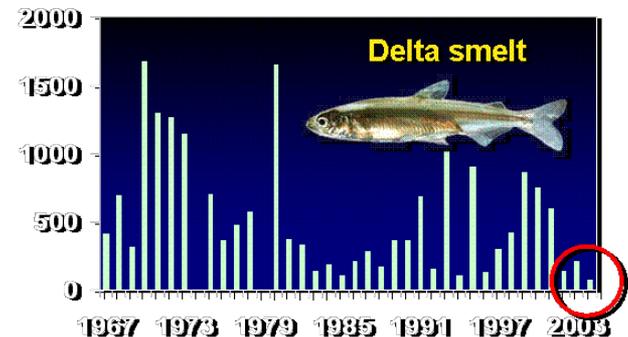
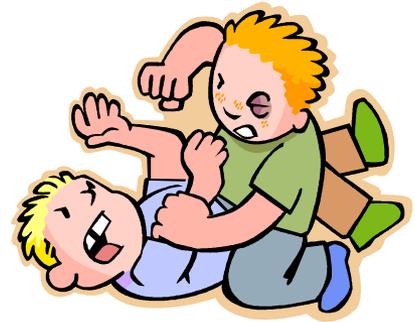
**Strategic Water Planning**

# Comprehensive Package Components



# Impetus Behind Comprehensive Package

- ↳ 50 years of fighting, futility and failure
- ↳ Declining fish populations
- ↳ Dry Conditions
- ↳ Delta Crisis and New Biological Opinions
- ↳ Unemployment in San Joaquin Valley and statewide
- ↳ Significant agricultural fallowing



# Comprehensive *Five* Bill Package

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- 1) Senate Bill 1 – Delta Governance/Delta Plan
- 2) Senate Bill 6 – Groundwater Monitoring
- 3) Senate Bill 7 – Statewide Water Conservation
- 4) Senate Bill 8 – Water Diversion and Funding
- 5) \$11.4 Billion Water Bond

# Senate Bill 1 – Delta Governance & Delta Plan

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- ➔ Supply reliability
- ➔ Delta ecosystem

*To protect the unique cultural, recreational, natural resource and agricultural values of the Delta*



# Senate Bill 1 – Delta Governance & Delta Plan

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## Highlights

- 1) New Council, Commission and Conservancy
- 1) Two new funds in state treasury
- 2) Three new Delta Plans
- 3) Quantification of diversions and ecosystem water needs
- 4) Process for regulating all plans within Delta
- 5) Repeals California Bay-Delta Authority Act
- 6) SWRCB Delta Watermaster as enforcement officer
- 7) **Delta Independent Science Board**



# Senate Bill 1 – Delta Governance & Delta Plan

## Establishes Delta Stewardship Council

- 1) Seven members
- 2) Primarily State-level Representation
- 3) Develops Delta Plan (January 2012)
- 4) Creates Performance Measures
- 5) Appoints Independent Science Board**
- 6) Certifies consistency of other proposals with Delta Plan (including BDCP)



# Senate Bill 1 – Delta Governance & Delta Plan



## Establishes Delta Conservancy

- ↳ Responsible for implementing Delta ecosystem restoration
- ↳ Approximately ½ State and ½ local representation
- ↳ **Delta Conservancy fund established in State treasury (to implement restoration)**

# Senate Bill 1 – Delta Governance & Delta Plan

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## Establishes Delta Conservancy

- ↳ Authorized to acquire real property from willing sellers
- ↳ No eminent domain authority
- ↳ Adopt Strategic Implementation Plan
- ↳ Promote economic vitality
- ↳ **Promote environmental education**



# Senate Bill 1 – Delta Governance & Delta Plan

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## Restructures Delta Protection Commission

- ↳ From 23 to 15 members
- ↳ Primarily local representation
- ↳ Potential expansion of primary zone
- ↳ National Heritage Area Designation
- ↳ Economic sustainability plan (July 2011)
- ↳ Economic sustainability plan reviewed by Stewardship Council
- ↳ **Delta Investment Fund established in state treasury (to implement economic sustainability plan)**

# Senate Bill 1 – Delta Governance & Delta Plan

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## Other SB 1 Provisions:

- ➔ All new delta conveyance costs shall be borne by state and federal water contractors including **environmental review**, planning, design, construction and **mitigation** (including mitigation of affects on local property tax revenues)
- ➔ DWR shall expeditiously move ahead on early implementation actions (Meins landing, Dutch Slough, ..)

# Senate Bill 6 – Groundwater Monitoring

## Highlights

- ↳ **Establishes groundwater level monitoring program**
- ↳ DWR may implement a program for non-compliance regions
- ↳ Failure to implement results in loss of eligibility for State grants and loans for county and monitoring entities
- ↳ DWR shall report statewide groundwater conditions by January 2012



# Senate Bill 6 – Groundwater Monitoring

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## Highlights

- ↳ DWR to provide compliance assistance
- ↳ **Allows local entities to design own monitoring program**
- ↳ Provides landowners with protections from state and local agency trespassing

# Senate Bill 6 – Groundwater Monitoring

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## Highlights

- ↳ DWR may recommend improvements to monitoring programs including additional monitoring wells\* (\*provided funding is provided by the state)
- ↳ DWR shall report findings by January 2012 and every year ending in 5 and 0 thereafter

# Senate Bill 6 – Groundwater Monitoring

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## Permitted Monitoring Entities

- ↳ Watermaster
- ↳ Water management engineer appointed by court
- ↳ GW management agency
- ↳ Local agency that is managing a GW basin or an integrated regional water management plan
- ↳ Voluntary GW monitoring association
- ↳ County (*provided it is not managing a GW basin pursuant to a legally enforceable GW management plan*)

# Senate Bill 7 – Statewide Water Conservation

## Highlights

- ↳ Framework for future planning and implementation for Agricultural and Urban water suppliers to reduce water use
- ↳ **20% reduction in urban per capita water use by year 2020 (20 by 2020)**



# Senate Bill 7 – Statewide Water Conservation

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## ❖ Per capita water use reductions

- ➔ **Sets conservation target at 80% of baseline**
- ➔ Indoor and outdoor water use performance standards
- ➔ 95% of the applicable state hydrologic region target; or
- ➔ Use a method to be developed by DWR

# The CSU-WRPI was included in SB 261 (Conservation Bill)

❖ The CSU was asked to perform two functions in coordination with the California Department of Water Resources

- ↳ provide collaborative assistance on a statewide basis to help agencies increase their level of conservation and water use efficiency, and
- ↳ keep an account of statewide aggregate savings to assure that total savings goal is assured.

➤ **Unfortunately SB261 was succeeded by AB49**

# Senate Bill 8 – Water Diversion & Funding

## Highlights

- ➔ Authorizes SWRCB and DWR to adopt emergency regulations for the filing of water diversion reports
- ➔ Continuously appropriates \$3,750,000 annually from water rights fund for water rights enforcement
  - Appropriates \$546 million in bond funds to IRWM, flood control, natural community conservation planning (NCCP)
  - Civil penalties for violations, misstatements or measuring device tampering



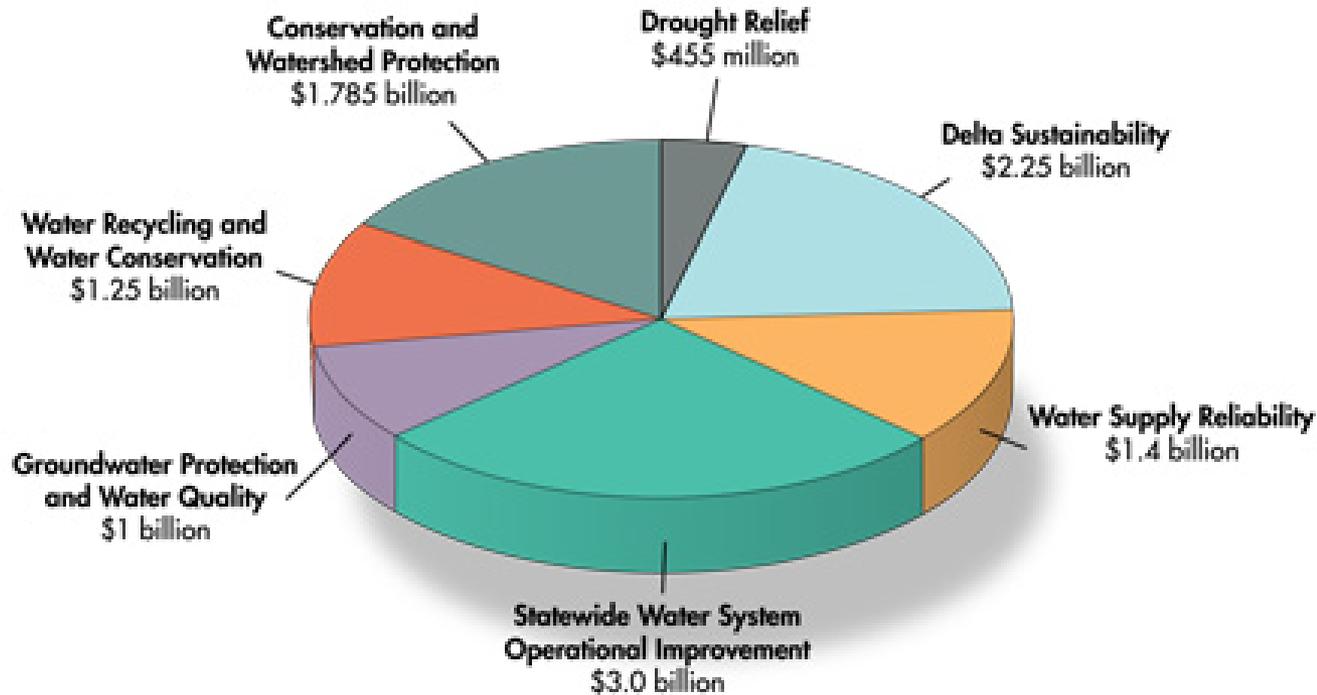
# Safe, Clean and Reliable Drinking Water Supply Act of 2010

## California Water Commission

- ↳ Nine members
- ↳ Oversees competitive process for investment of \$3 billion in surface storage
- ↳ Continuously appropriated to fund public benefits

# SB X 7 2: Water Bond

\$11.14 billion water bond



\*Source: <http://gov.ca.gov/issue/water-supply>

# Safe, Clean and Reliable Drinking Water Supply Act of 2010

- ↳ Drought relief: \$0.455 billion
- ↳ Delta projects: \$2.25 billion
- ↳ Regional supply: \$1.4 billion
- ↳ Storage: \$3 billion
- ↳ Watersheds: \$1.785 billion
- ↳ Groundwater cleanup: \$1.0 billion
- ↳ Reuse & conservation: \$1.25 billion
- ❖ **Total funding: \$11.14 billion**



# Section 79759 of the Water Bond

Of the funds provided in Section 79750, **the sum of fifty million dollars (\$50,000,000)** shall be available, upon appropriation by the Legislature from the fund, to the California State University for the purposes of funding agricultural water supply, water use, efficiency, water quality, and related research and education efforts in accordance with the **California State University Water Resources and Policy Initiatives.**

# What the Water Package Does NOT Do

- Authorize construction of Peripheral Canal
- Change existing groundwater rights
- Give SWRCB jurisdiction to regulate groundwater
- Require monitoring of water quality or subsidence
- Specify a particular Delta ecosystem recreation project
- Change existing authority to issue revenue bonds for water projects
- Give DWR the authority to charge fees for its services

# What the Water Package Does NOT Do

## ❖ Does not affect any of the following

- NCCP Act
- California ESA
- Fish & Game Code
- Porter-Cologne Act
- CEQA
- Water Rights

# Questions?



**CSU Water Resources and Policy Initiatives**

**(559) 278-8468**

**[davidzo@csufresno.edu](mailto:davidzo@csufresno.edu)**