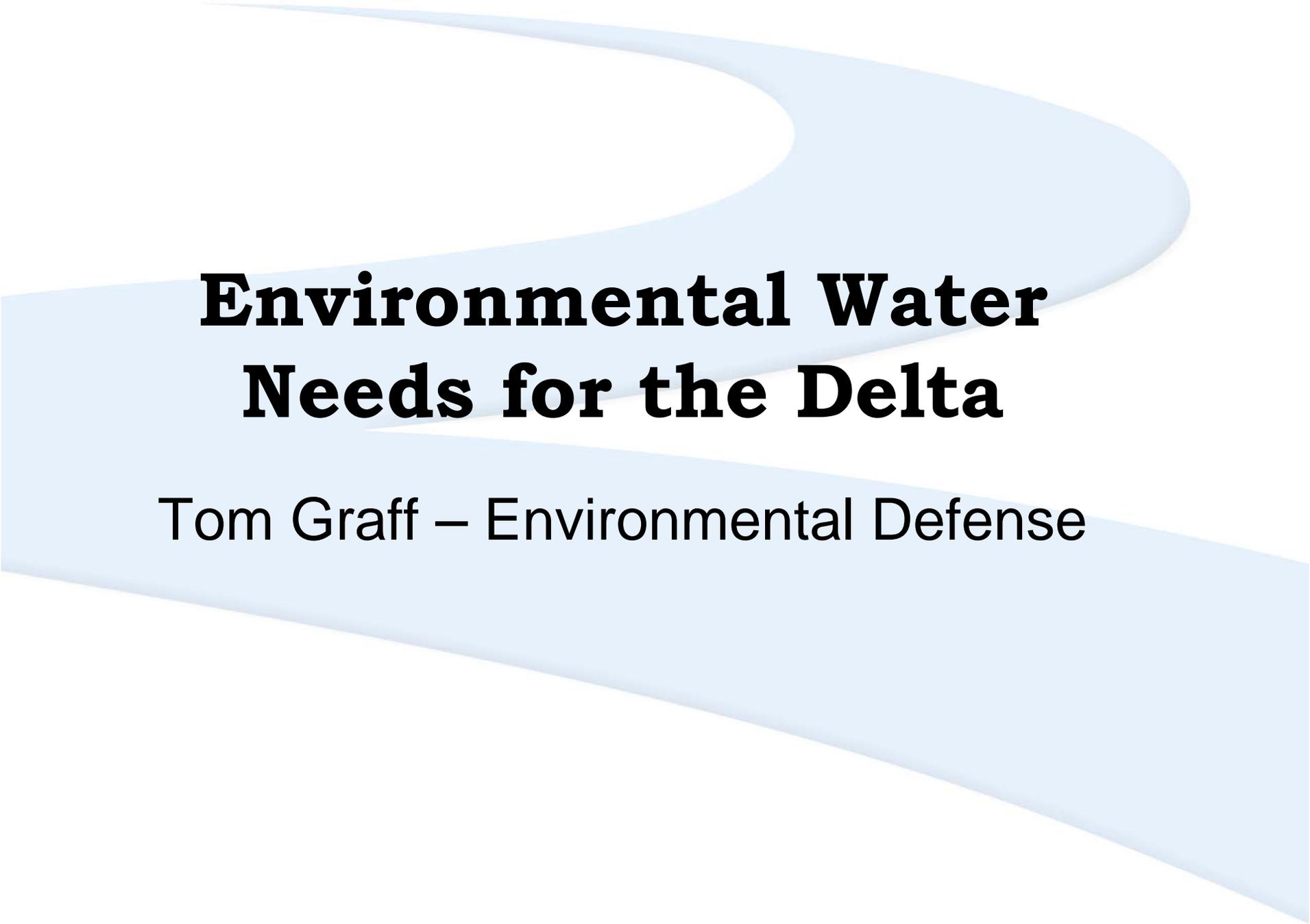


ITEM 5

**Planning for Future
Delta Decisions**



Environmental Water Needs for the Delta

Tom Graff – Environmental Defense

Finding the Water

NEW WATER SUPPLY OPPORTUNITIES TO
REVIVE THE SAN FRANCISCO BAY-DELTA
ECOSYSTEM

Presentation to the Bay-Delta Public Advisory Committee
March 15, 2006



ENVIRONMENTAL DEFENSE

finding the ways that work

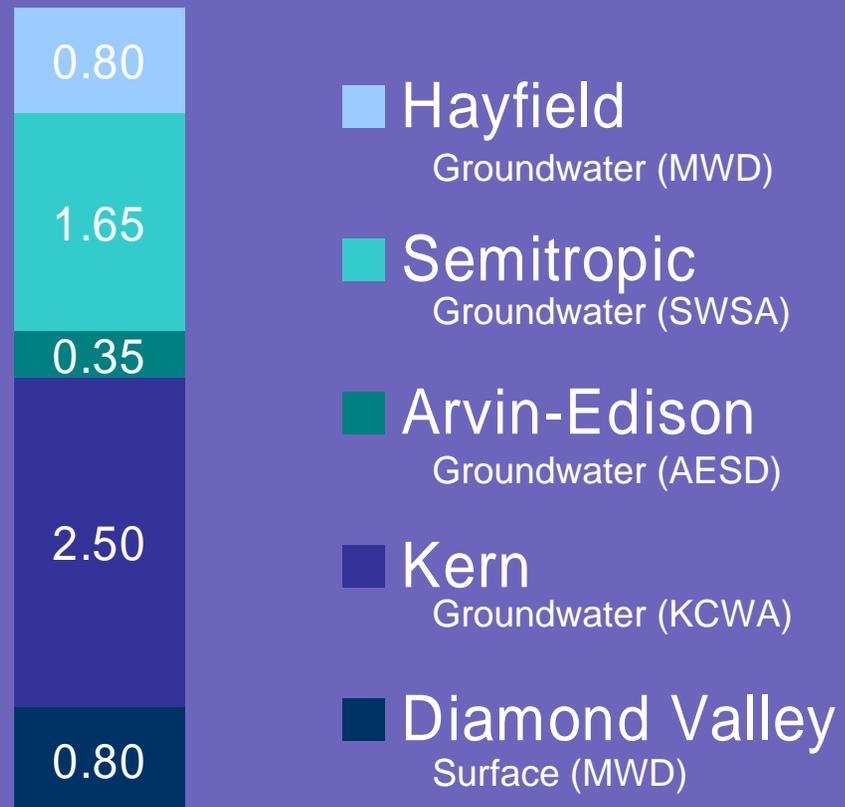
Bay-Delta Watershed Current Trends

- Levee system integrity at risk
- Storage increasing
- Exports increasing
- Estuarine fish declining
- Salmon doing OK
- Environmental water unavailable



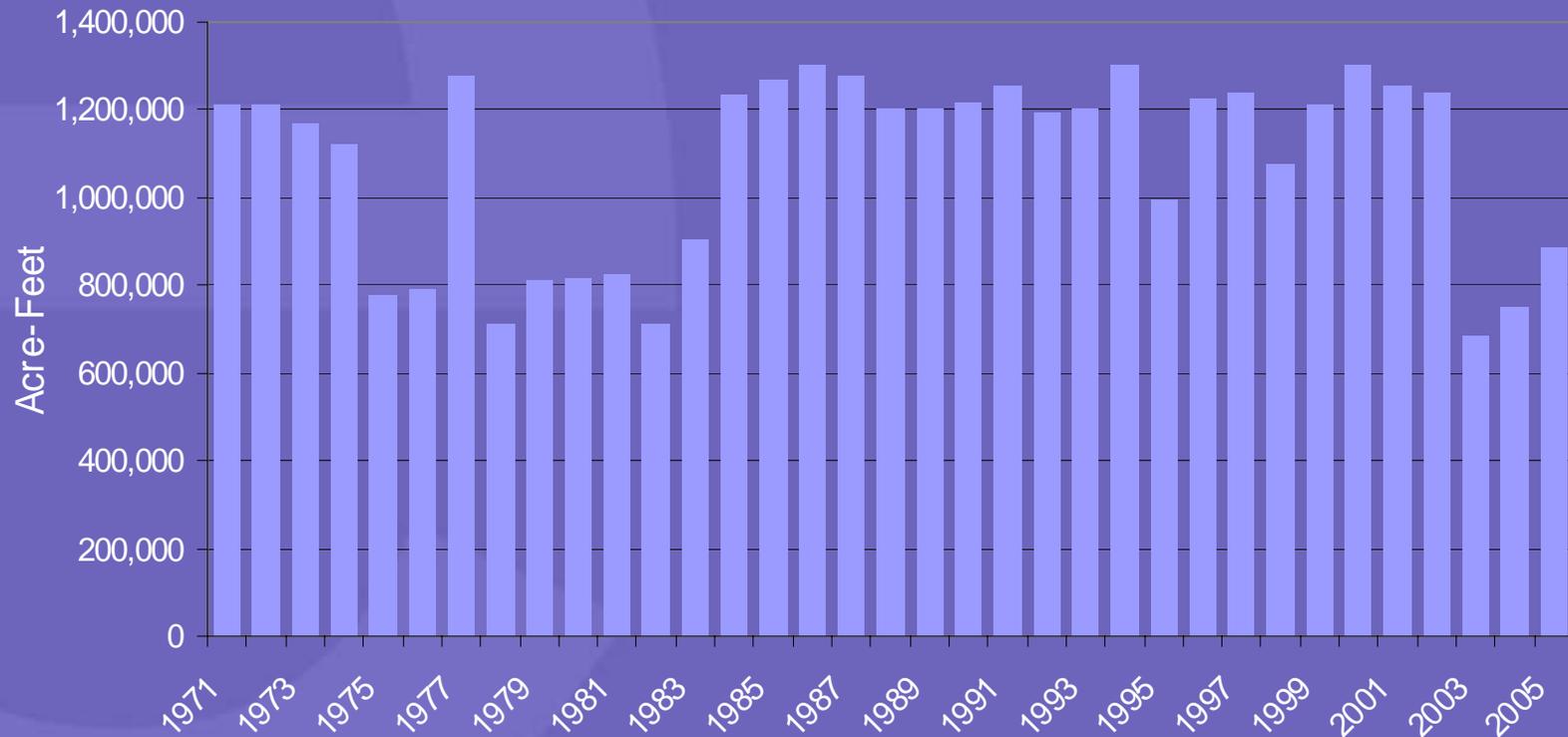
New Water Storage in California

More than 6.1 million acre-feet of storage capacity has been added since 1990



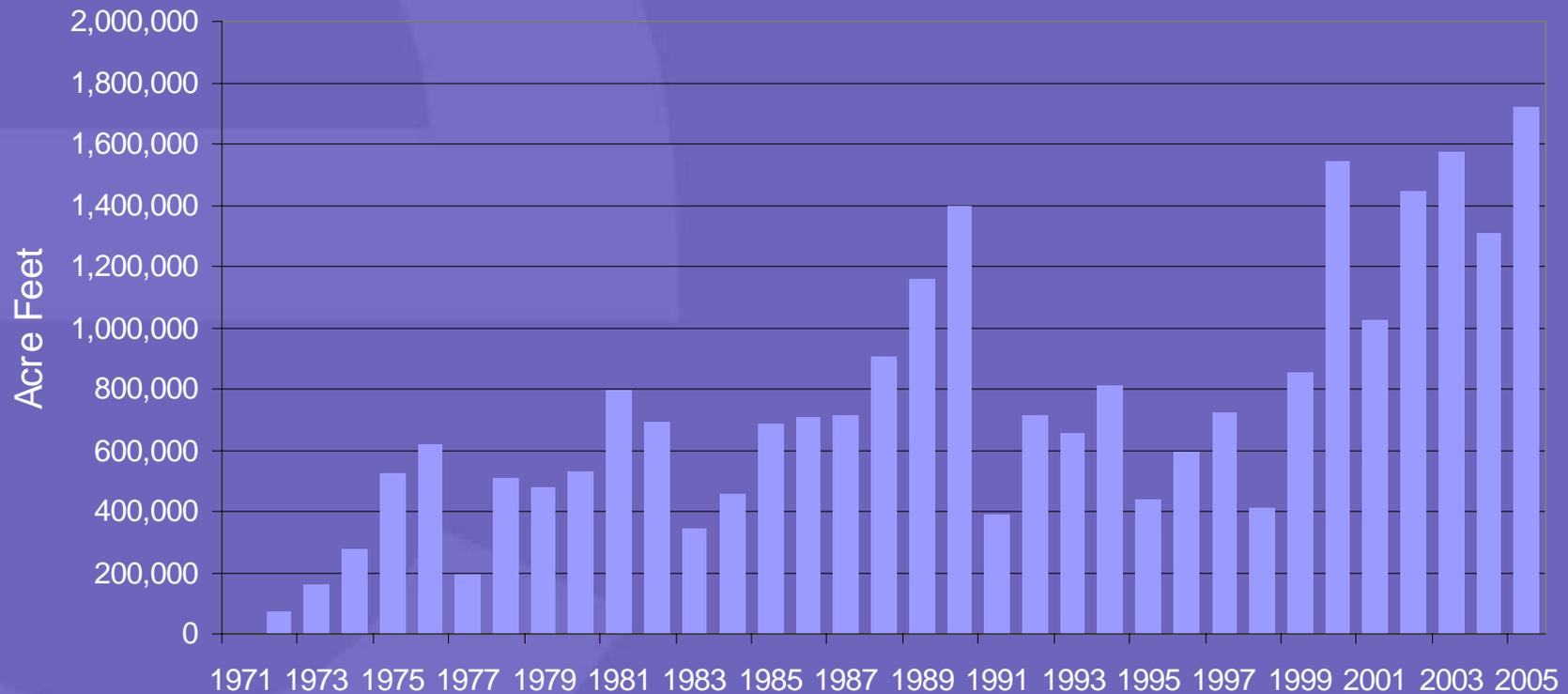
Source: Environmental Defense *Hetch Hetchy Water Supply in Context*

Colorado River Deliveries to MWD, 1971-2005



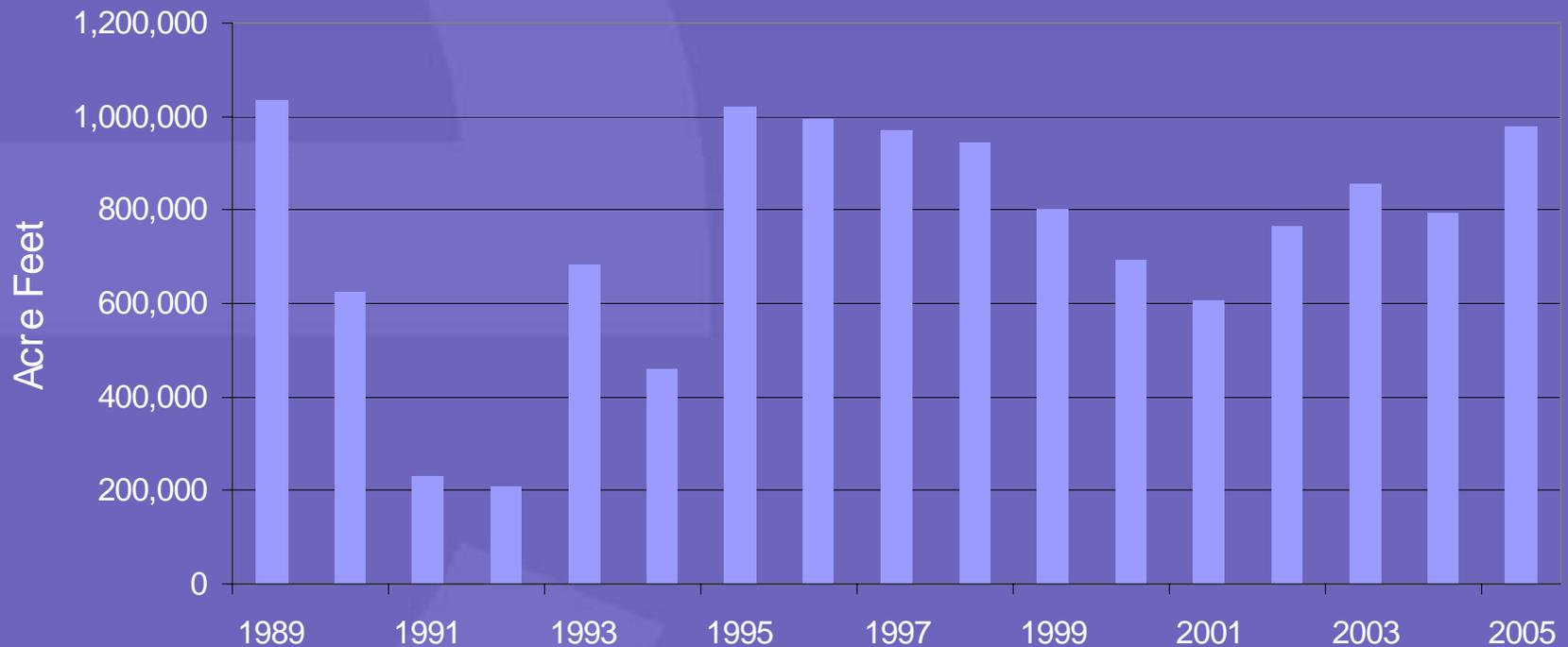
Source: US Bureau of Reclamation

State Water Project Deliveries to MWD, 1971-2005



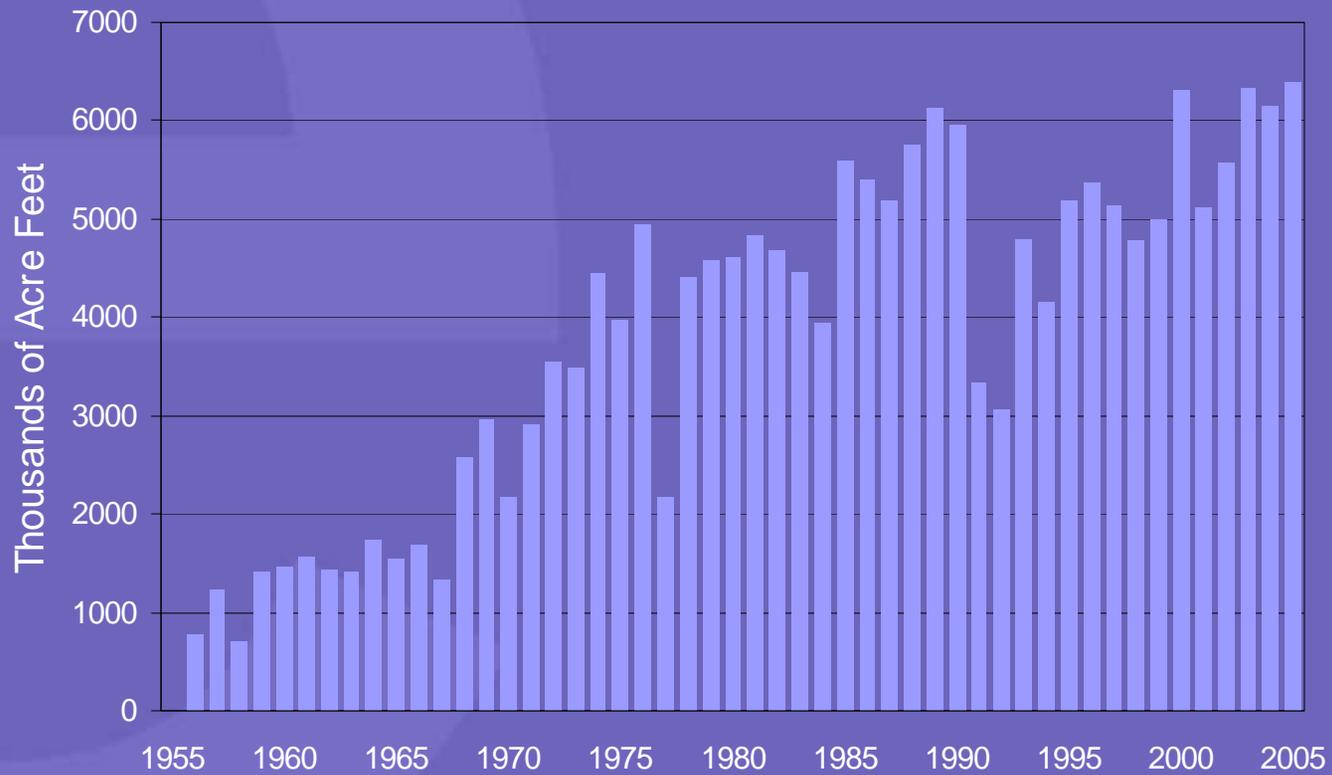
Source: Department of Water Resources

Central Valley Project Deliveries to Westlands Water District, 1989-2005



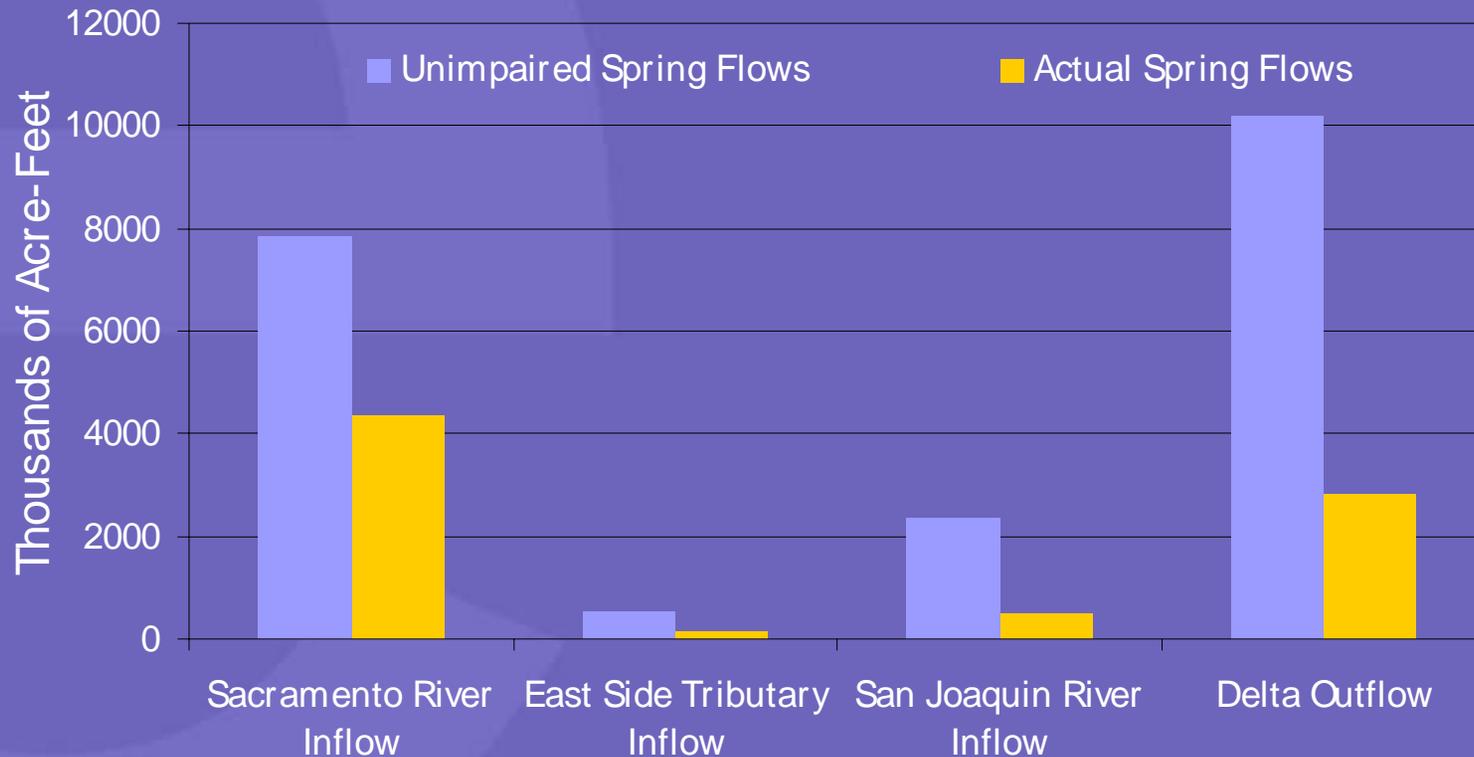
Source: Westlands Water District

Delta Exports, 1956-2005



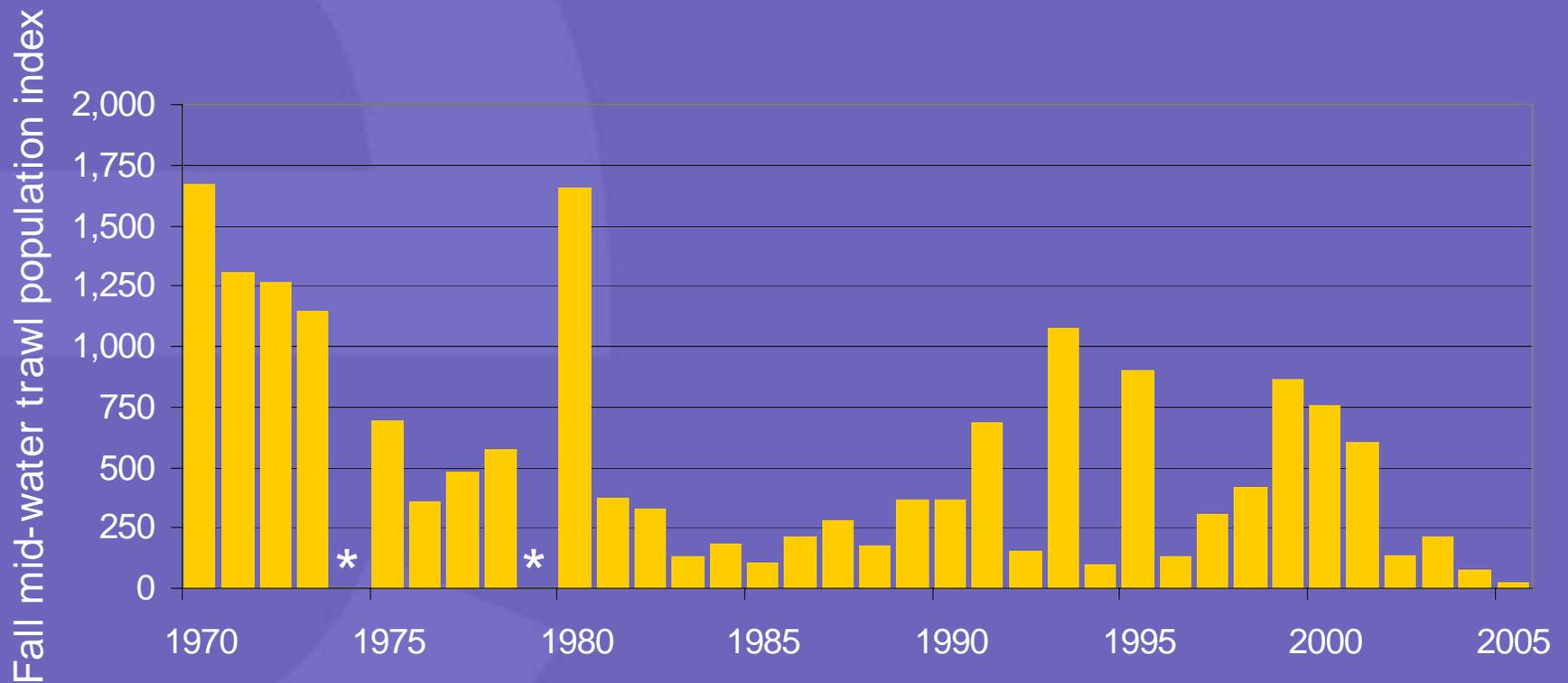
Source: Department of Water Resources

Changes to Delta Flows, February-June, 1987-1992



Source: Department of Water Resources

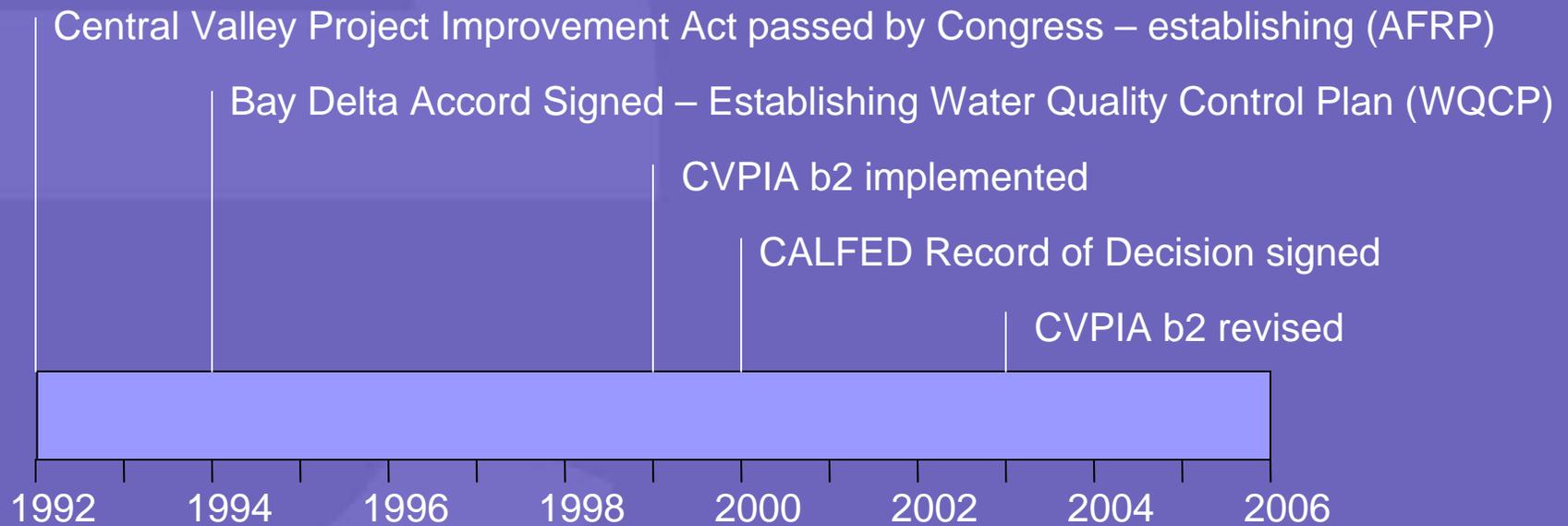
Delta Smelt Abundance, 1970-2005



* No data available

Source: Interagency Estuary Project

Timeline of Central Valley and Bay-Delta Environmental Water Dedications



Providing Environmental Water

- Prescriptive operations

Examples: Instream flow requirements, Water Quality Control Plan (X2), Deliveries to wetlands

- Flexible Operations

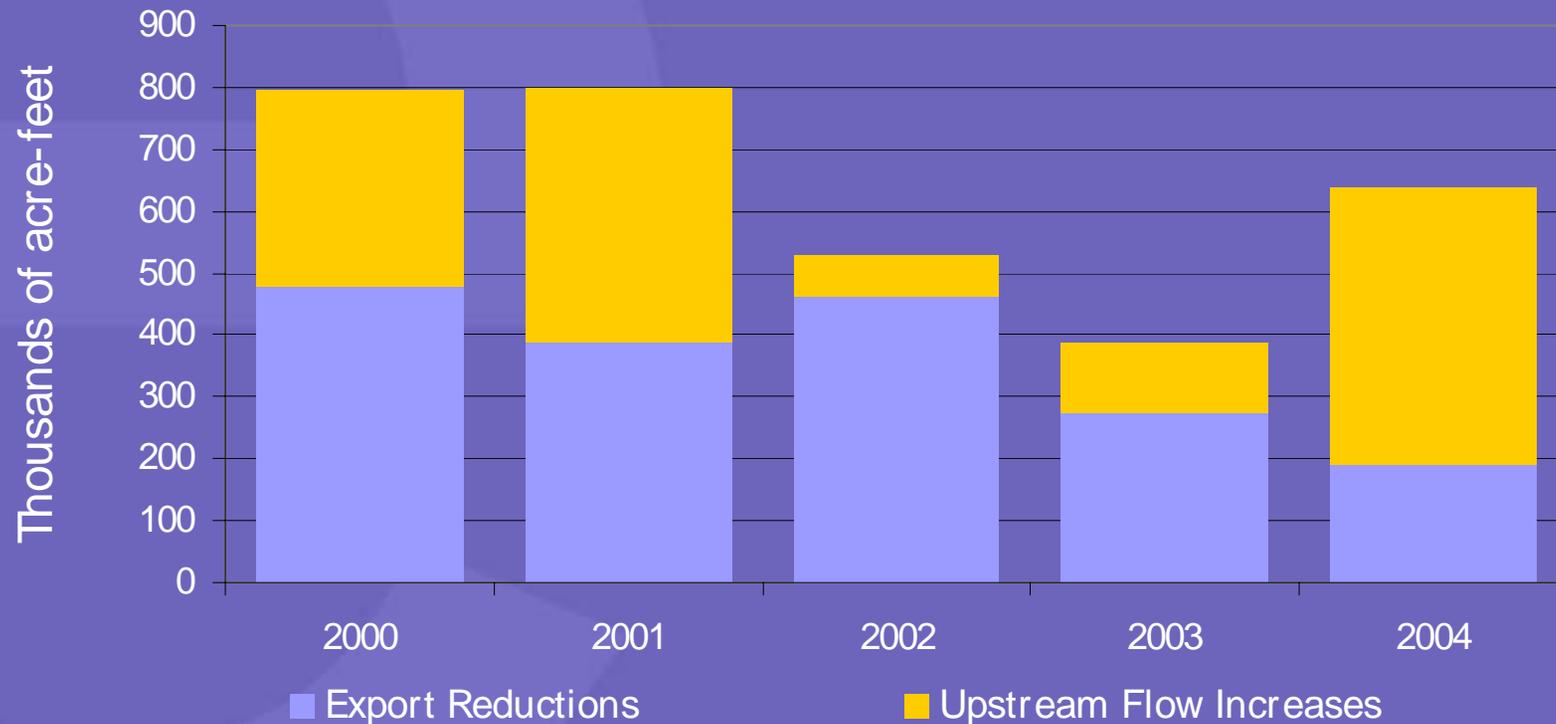
Examples: Environmental Water Account, CVPIA b1 and b2

Principal Changes to CVPIA Since CALFED ROD (2000)

Interior's policy revisions and Federal Court rulings reduce level of protection by:

- Eliminating “offset” and “reset” accounting, with minimal definition of “reoperation” (under Sec. B1)
- Increasing the cost of protecting the American River by lowering “Pre-CVPIA baseline” flow criteria

Changes in net environmental water due to revised policies for CVPIA b(2) supply



Source: Environmental Defense *Finding the Water*

Environmental Water Account

The good news

- It works
- Operator & biologist communication is good
- Water agencies support it

The not-so-good news:

- “Operational” assets have not been available
- B2 supplies less available than anticipated by CALFED ROD
- Modeling for long-term EWA inconsistent with actual experience

Proposed Sources of EWA Water

Operational Supplies

SWP Pumping of Upstream Releases	40,000 acre-feet
EWA Use of Joint Point	75,000 acre-feet
Export/Inflow Ratio Flexibility	30,000 acre-feet
500 cfs SWP Pumping Increase	50,000 acre-feet

Purchased Supplies

South of Delta	150,000 acre-feet
North of Delta	35,000 acre-feet

Total

380,000 acre-feet

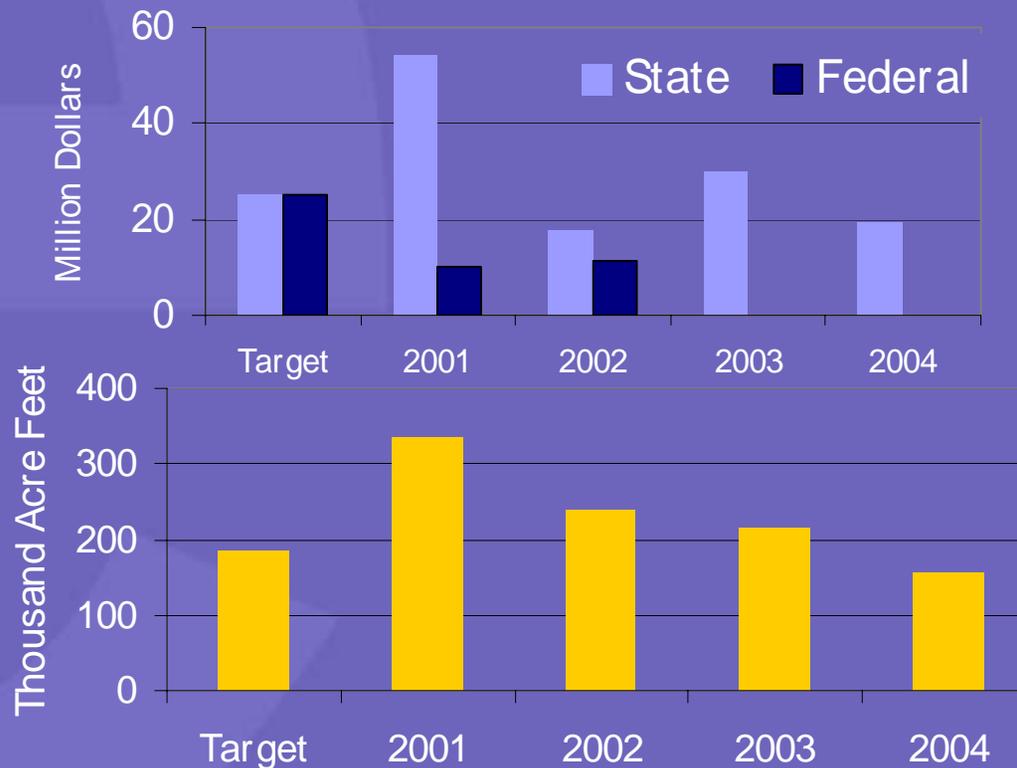
Source: CALFED Record of Decision

EWA Export Reductions, 2001-2004



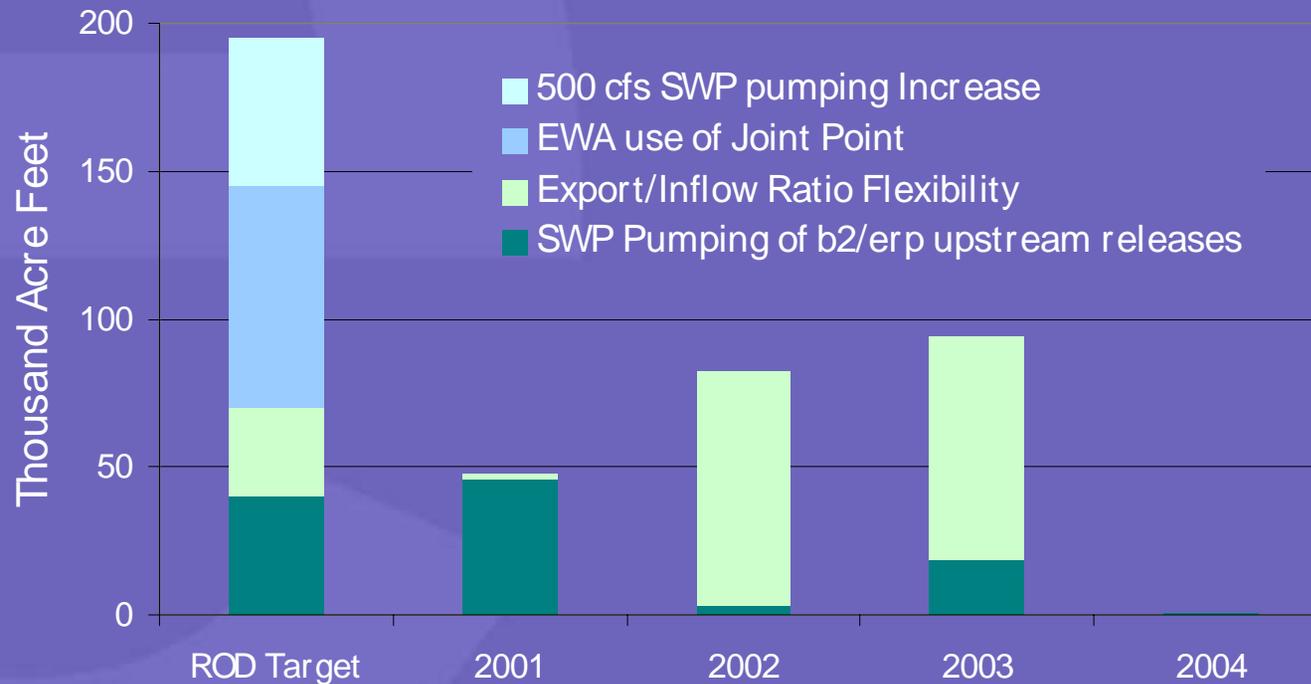
Source: Environmental Defense *Finding the Water*

The Environmental Water Account: Funding and Acquisitions



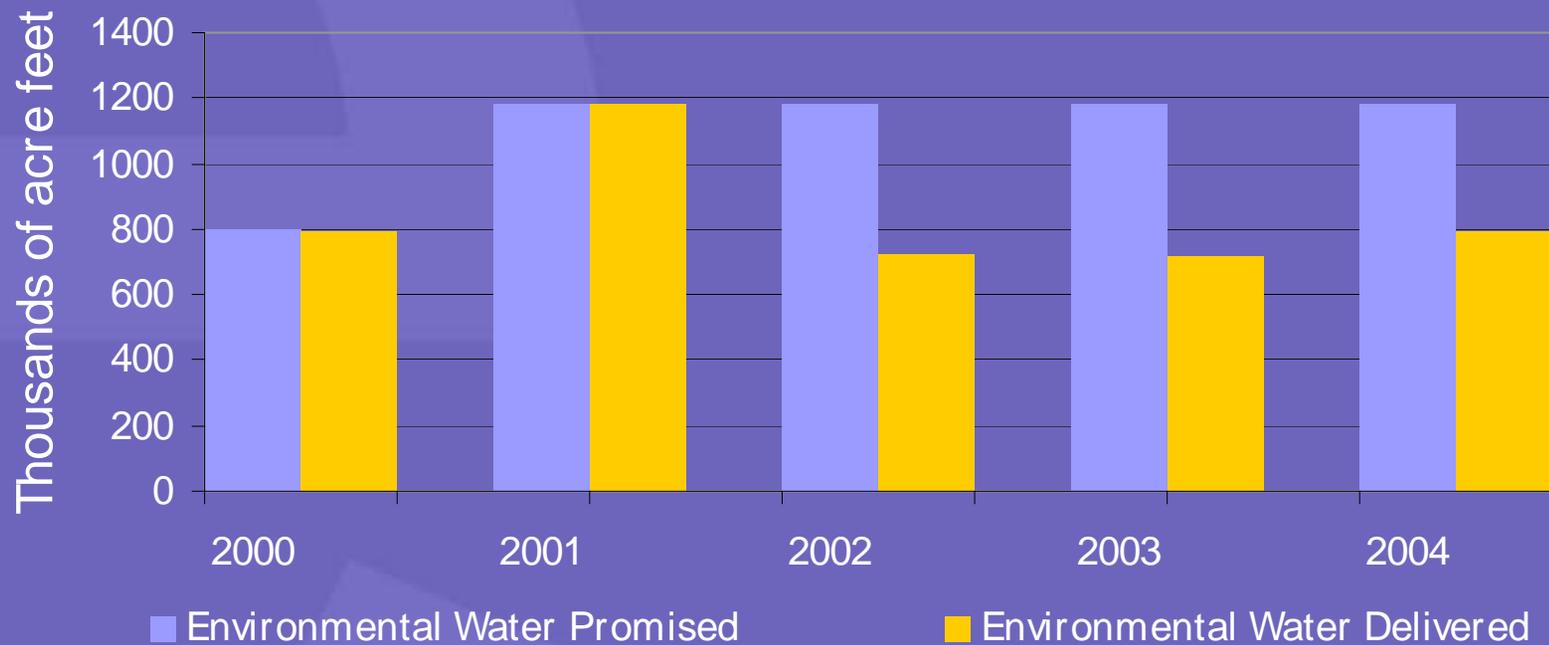
Source: Environmental Defense *Finding the Water*

Environmental Water Account Operational Assets, 2001-2004



Source: Environmental Defense *Finding the Water*

Unmet Environmental Water Targets, 2000-2005

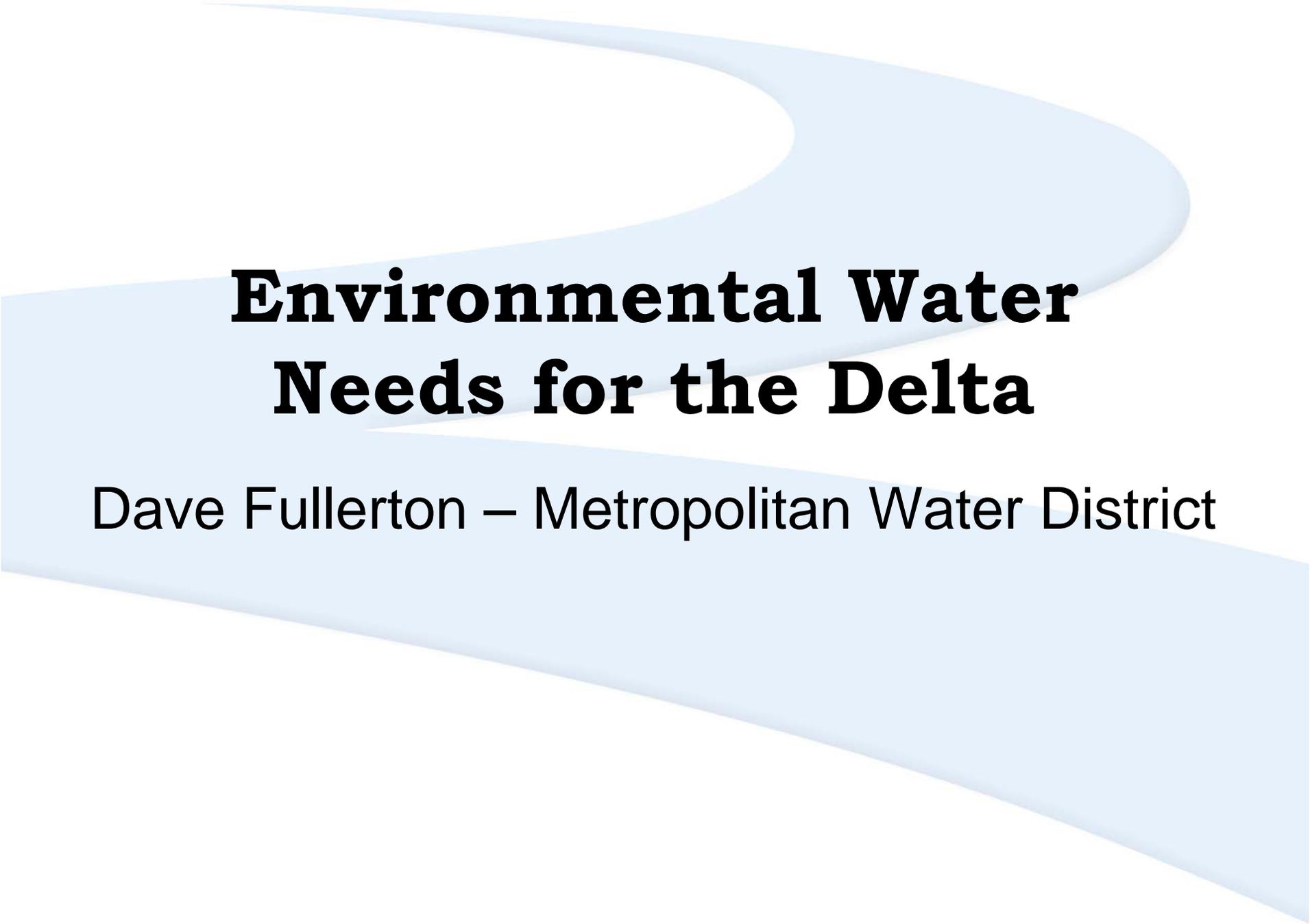


Source: Environmental Defense *Finding the Water*

Opportunities for Providing Additional Environmental Water

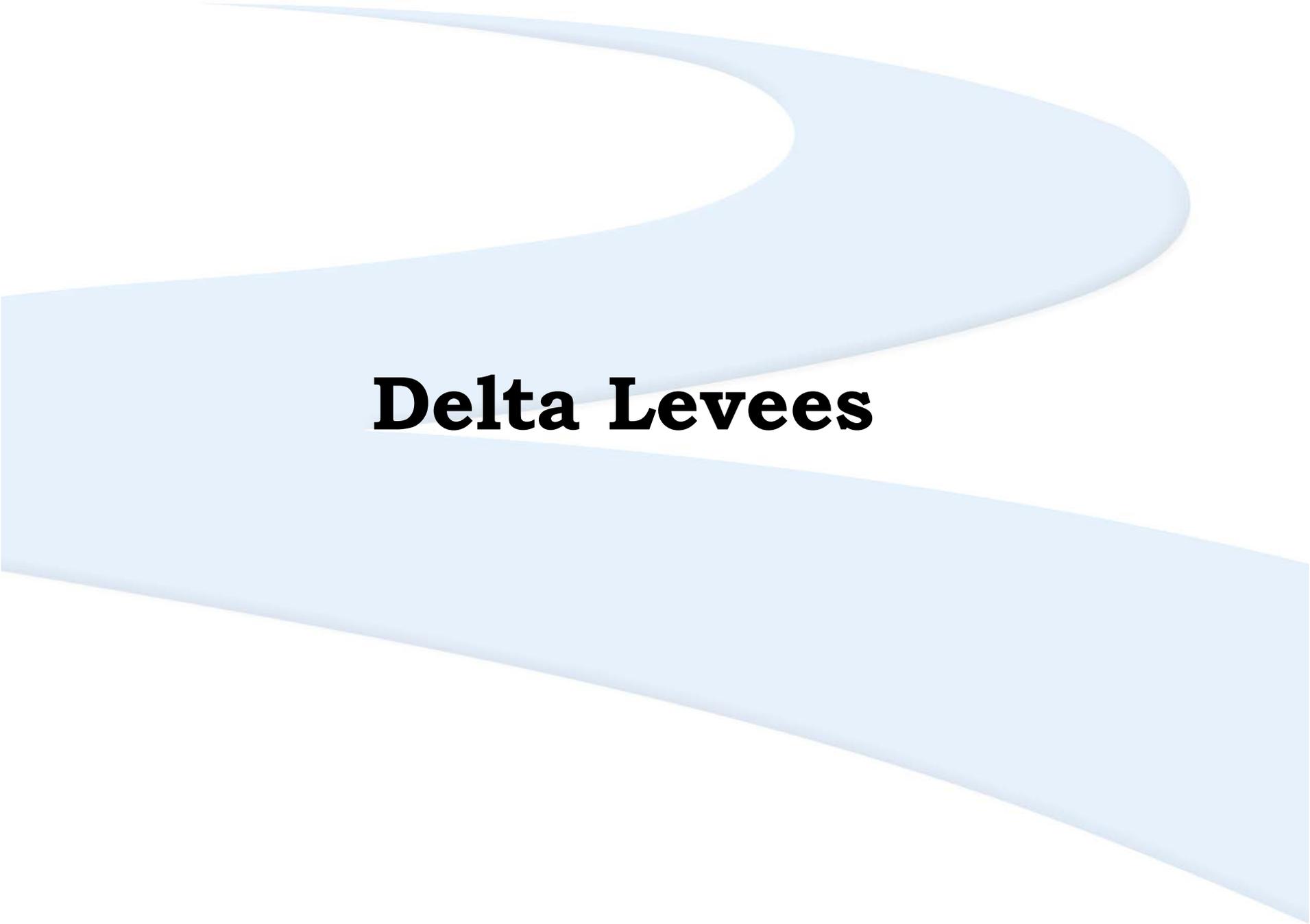
- Share of CVP/SWP integration benefits
- Access to new infrastructure
 - Increased export capacity
 - Modified San Luis Reservoir
- Restore CVPIA dedicated supplies
- Retire drainage-impaired lands
- Revise regulatory standards
- User fees dedicated to environmental water purchases

Source: Environmental Defense *Finding the Water*



Environmental Water Needs for the Delta

Dave Fullerton – Metropolitan Water District



Delta Levees

CALFED Levee System Integrity



Emergency Response



Program Sunset

- Water Code Sections Sun-setting
 - 12986
 - 12987.5
- Program Needs Legislative Action

DRMS

Delta Risk Management Strategy
for the
Levees in the Sacramento-San Joaquin Delta

Project Scope

FINAL DRAFT



Prepared by:

California Department of Water Resources
United States Army Corps of Engineers
California Department of Fish and Game

In conjunction with:

California Bay-Delta Authority
The Delta Risk Management Strategy Steering Committee

May 6, 2005

DRMS

- Contract Information
 - URS Corporation, Oakland, CA
 - Over 20 subcontractors, including:
 - Jack R. Benjamin & Assoc
 - Hultgren-Tillis Engineers
 - MBK
 - Jones & Stokes
 - Resource Management Associates

DRMS

- CURRENT STATUS

- Contract Approved by DGS on March 6, 2006
- \$6M contract
- 3-year contract, expires Jan 31, 2009
- 1st Task Order written – NTE \$2.5M

DRMS

- MILESTONES

Deliverable

Draft Due Date

Levee Vulnerability

Oct '06

Water Analysis & Mgt

Oct '06

Emergency Response & Repair

Jun '06

Consequences

Dec '06

Risk Analysis & Mgt

Apr '07

DRMS Final Report

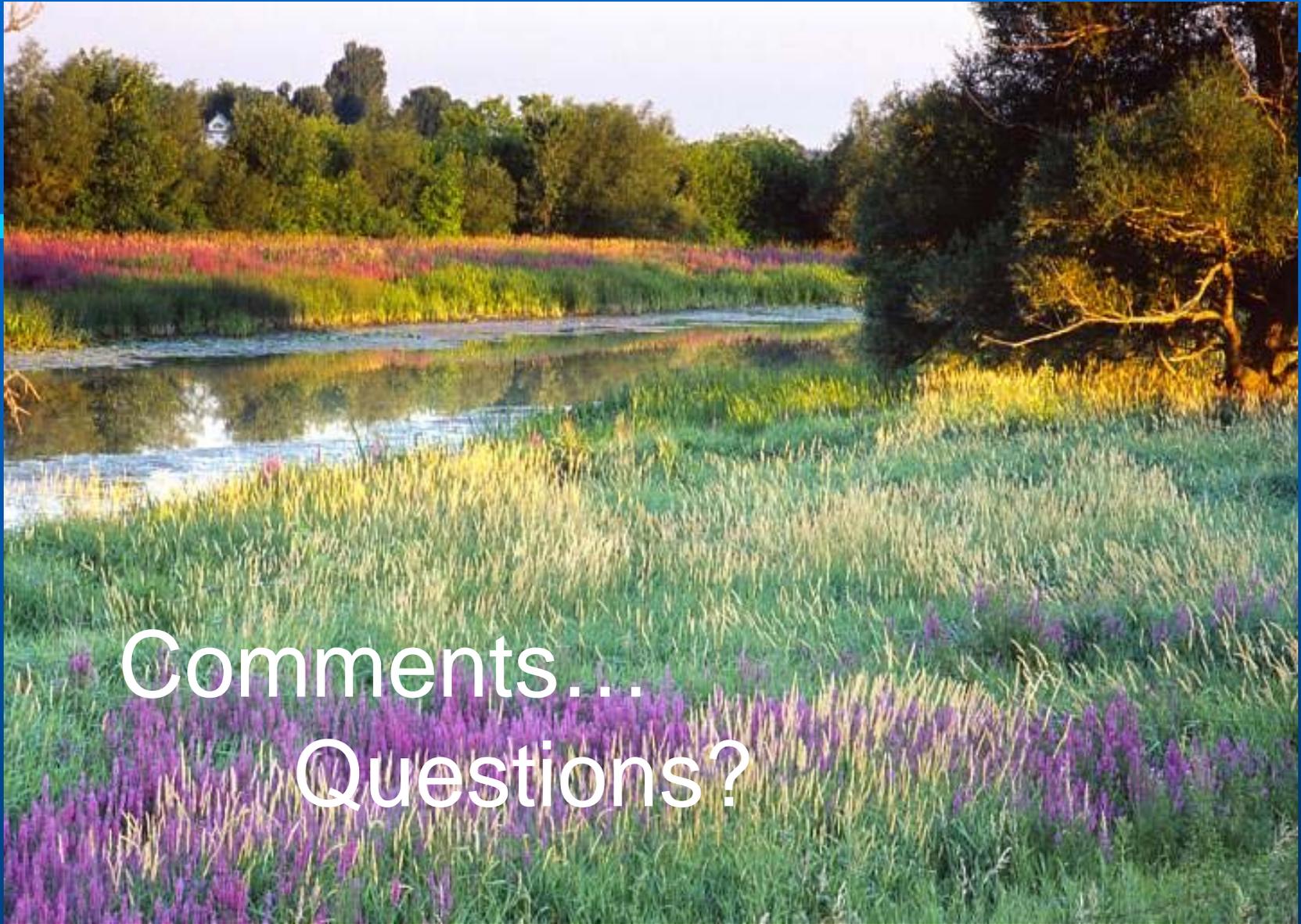
Sep '07

DRMS

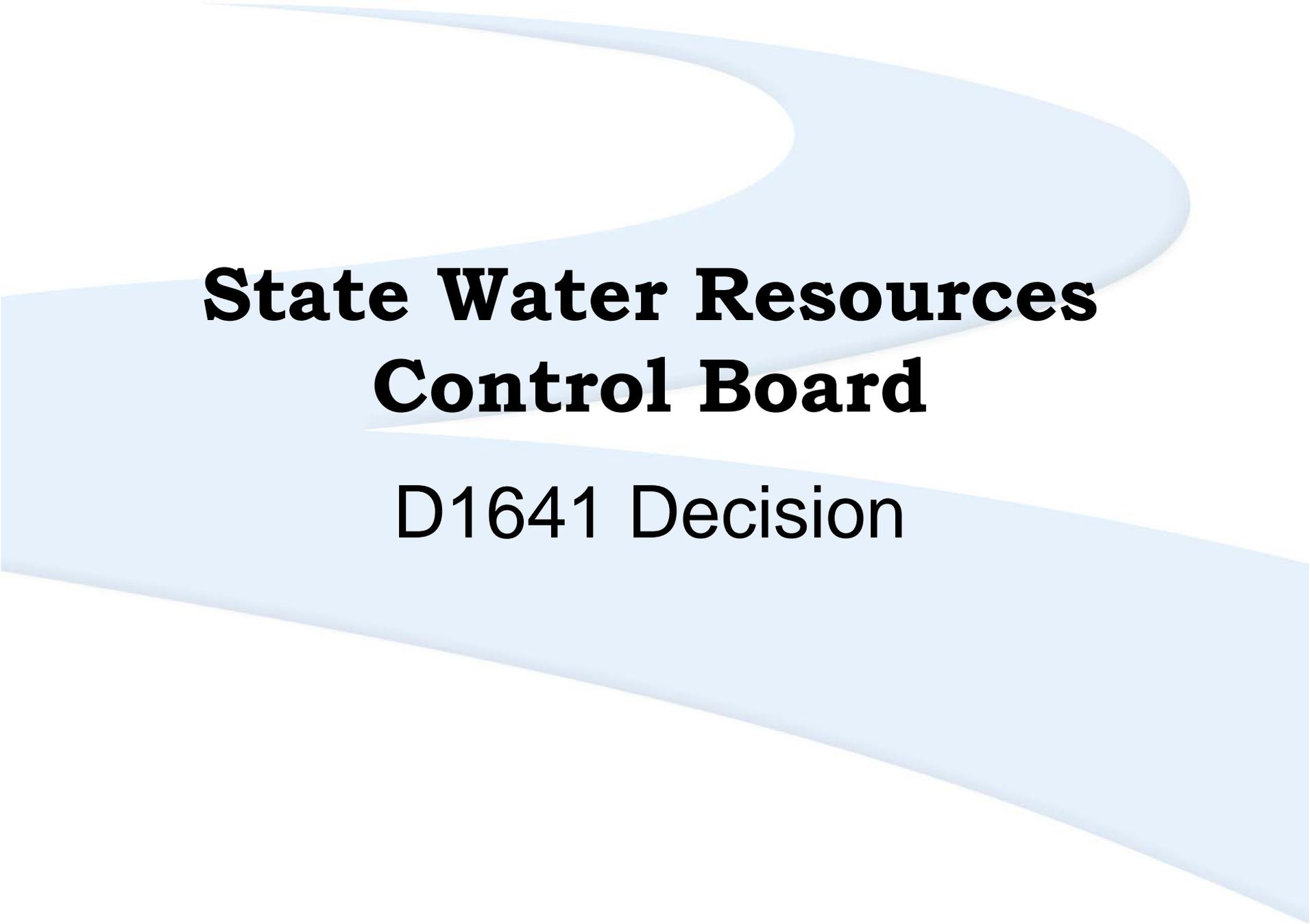
- **PUBLIC OUTREACH PROGRAM**
 - **Center for Collaborative Policy (CSUS)**
Selected to support URS w/ Public Outreach
 - **One T.O. (DPLA Contract) executed for**
DRMS SC Assessment
 - **New IA Contract being written for**
Communications & Public Involvement
Program for both DV & DRMS projects

Program Plan

- Plan introduced in February
- Re-write over next 3 months

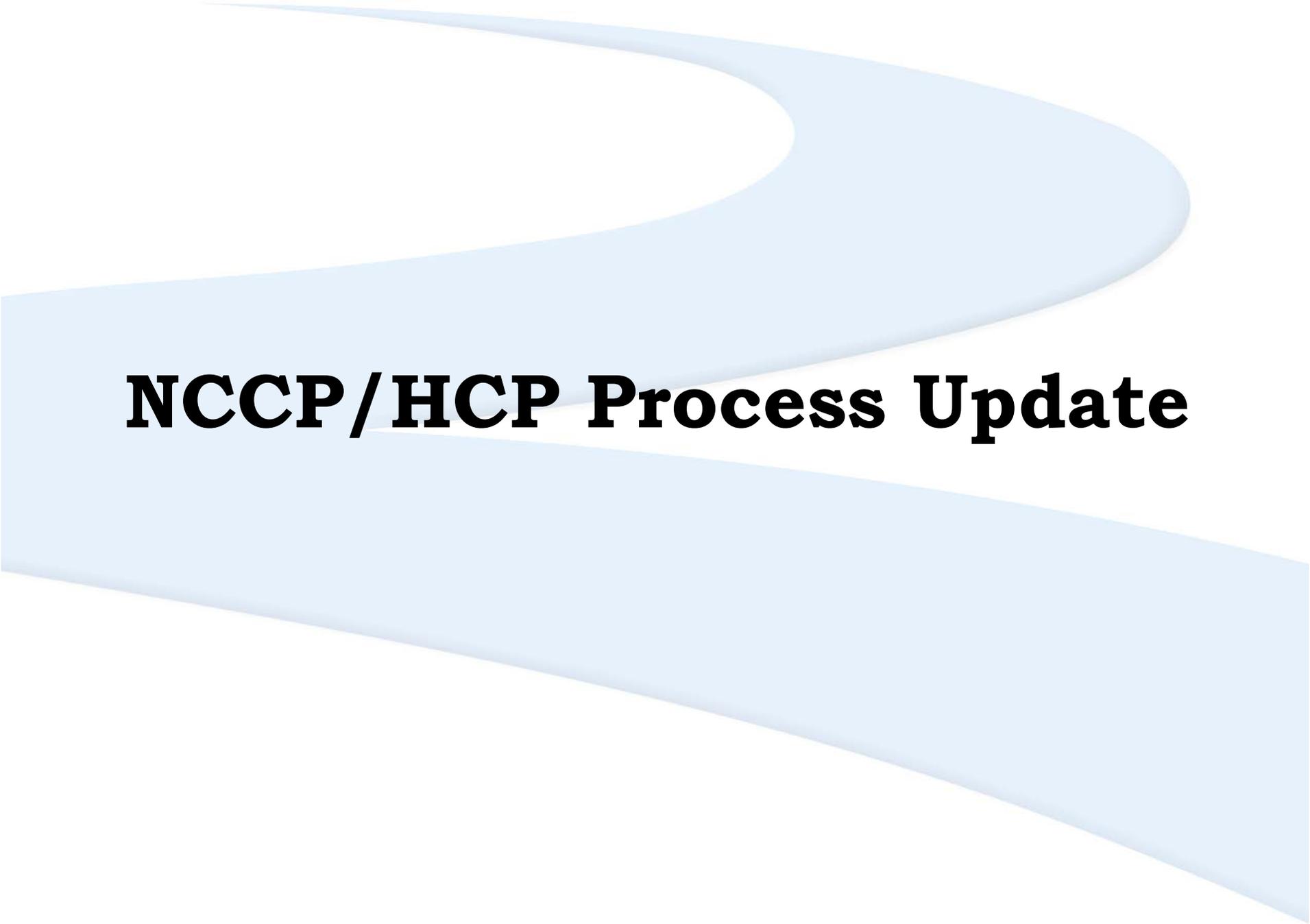


Comments...
Questions?



**State Water Resources
Control Board**

D1641 Decision



NCCP/HCP Process Update

New User Contributions

\$30 million in new water user contributions over a 2-year period:

- \$ 6 million for HCPs/NCCPs
- \$12 million for Species Recovery Fund
- \$4 million for Delta Vision
- \$8 million for POD studies

Time Line

April
2006

Dec
2007 ?

MOU

Planning Agreement

HCP/NCCP

MOU
guides till
Planning
Agreement
complete

Planning Agreement
guides till
HCP/NCCP complete
(maybe 2 to 5 years?)

HCP/NCCP guides for
term of agreement
(years and years)

Process

- Prepare MOU by Spring 2006
- Negotiate Planning Agreement by end of State 1

Potential Benefits

- Increased support for conservation measures
- Opportunity to be more efficient
- Allows coordination with Section 7 activities
- Potential for regulatory certainty may provide for greater contributions to restoration

Potential Risks

- Scope of HCP/NCCP is broad and issues complex
- Tension between flexibility for adaptive management and interest in regulatory certainty

How does it all work together?

Delta Vision

End of State 1

On-going
Activities

Other projects?

Conservation Strategies
Covered Activities

HCP/NCCP(s)

As we move forward...

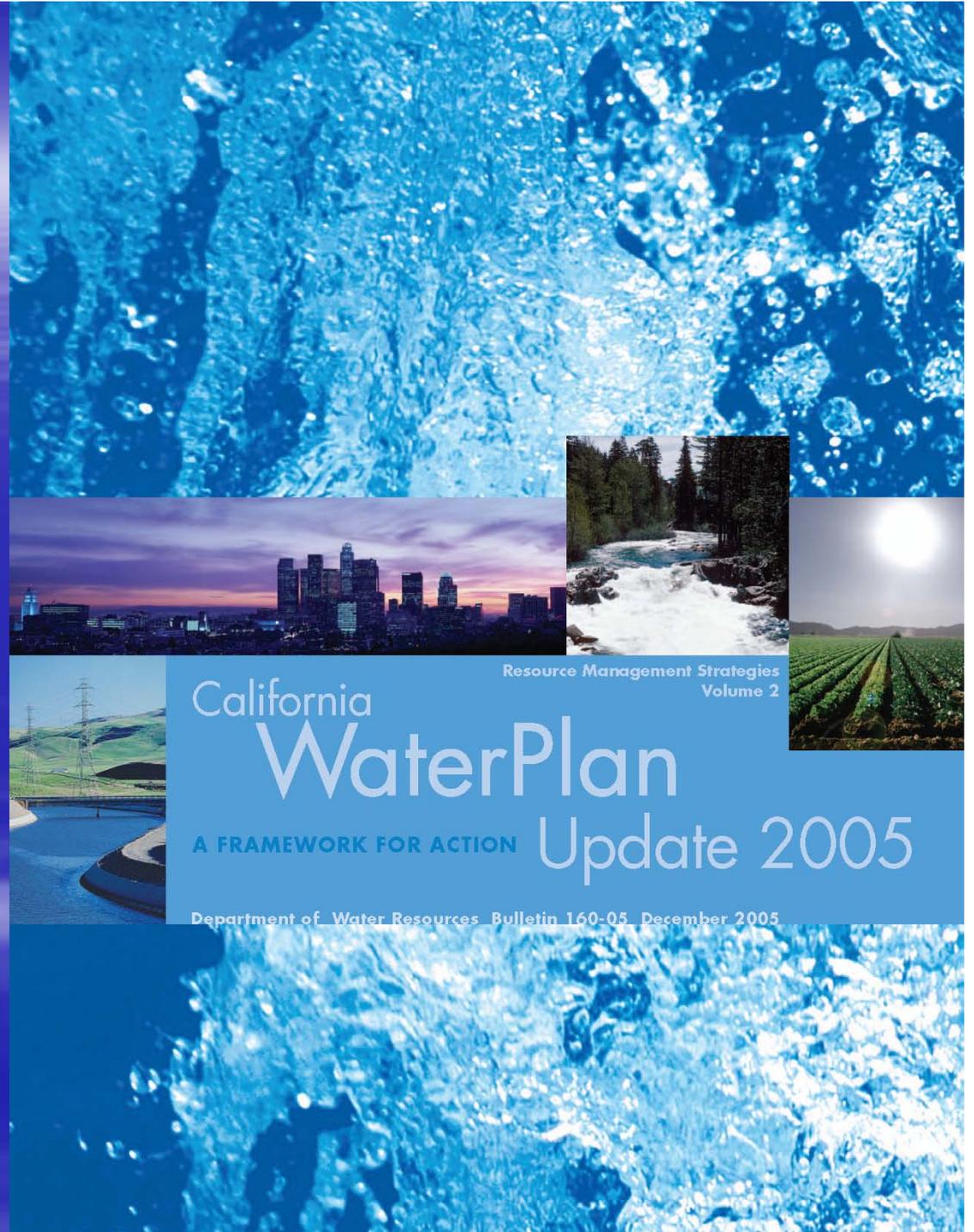
- Process is voluntary
- Development of MOU and Planning Agreement will include public input and will be based on independent science and adaptive management
- Cooperate to see if there is a business case for additional parties to participate

Delta Vision Process Proposal

BDPAC Meeting

March 15, 2006

California Water Plan Update 2005



Resource Management Strategies
Volume 2

California WaterPlan

A FRAMEWORK FOR ACTION Update 2005

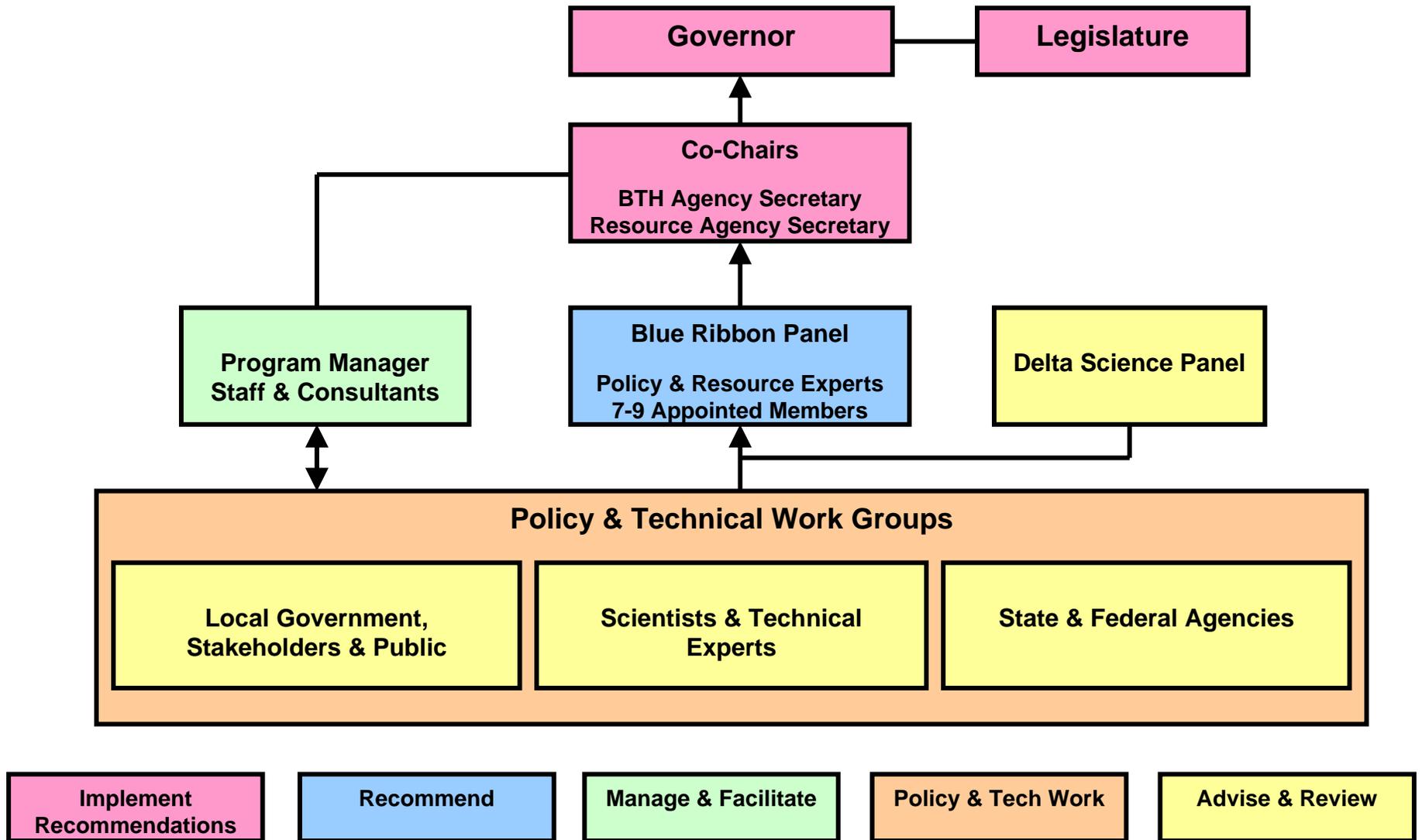
Department of Water Resources Bulletin 160-05 December 2005

Topics for Today's Briefing

- Purpose & Outcomes
- Deliverables & Schedule
- Dot Table of Planning Efforts
- Draft DVP Organization Chart
- Draft Work Group Topics & Participants

Delta Vision Process Organization Chart

Draft March 8, 2008



Delta Vision Process Work Group Topics & Participants

Draft March 10, 2006

Policy & Technical Work Groups

Discussion Topics for Stakeholders and Subject Matter Experts

Delta Scenarios & Strategies
 Environmental Quality & Protection
 Local & State Economies

Land Use, Agriculture & Housing
 Flood Risk Management
 Financing Strategies

Transportation & Utilities
 Water Conveyance & Quality
 Others

Local Government, Stakeholders & Public

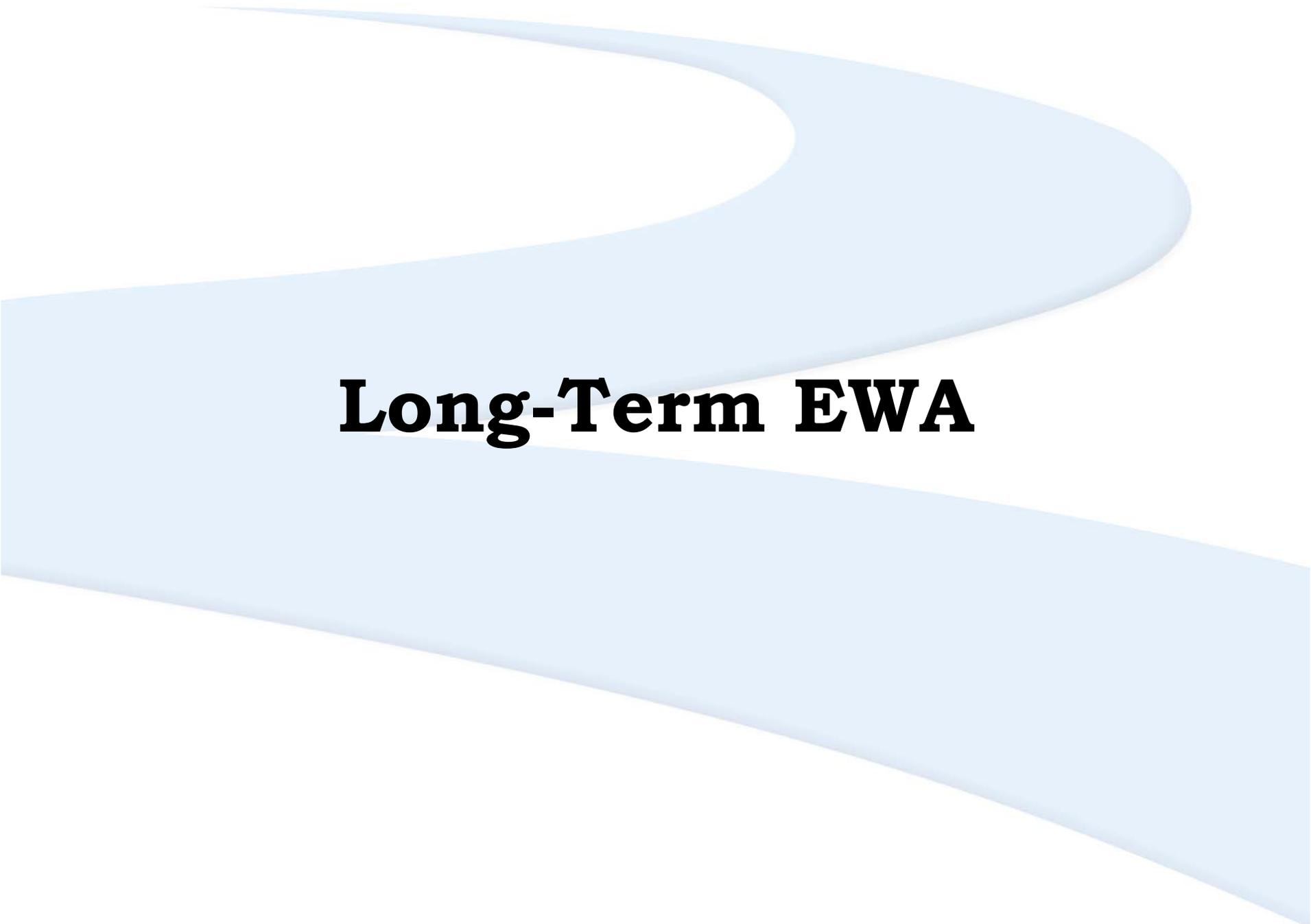
- In-Delta Interests
 Agriculture, Communities,
 Business, Environment, Water
 quality, etc.
- County & city governments
- Regional planning organizations
- Transportation & Utilities
- Water agencies and associations
- Environmental organizations
- Business & building industry
- Reclamation & conservation
 districts
- Environmental Justice
 organizations
- Tribes
- Others

Scientists & Technical Experts

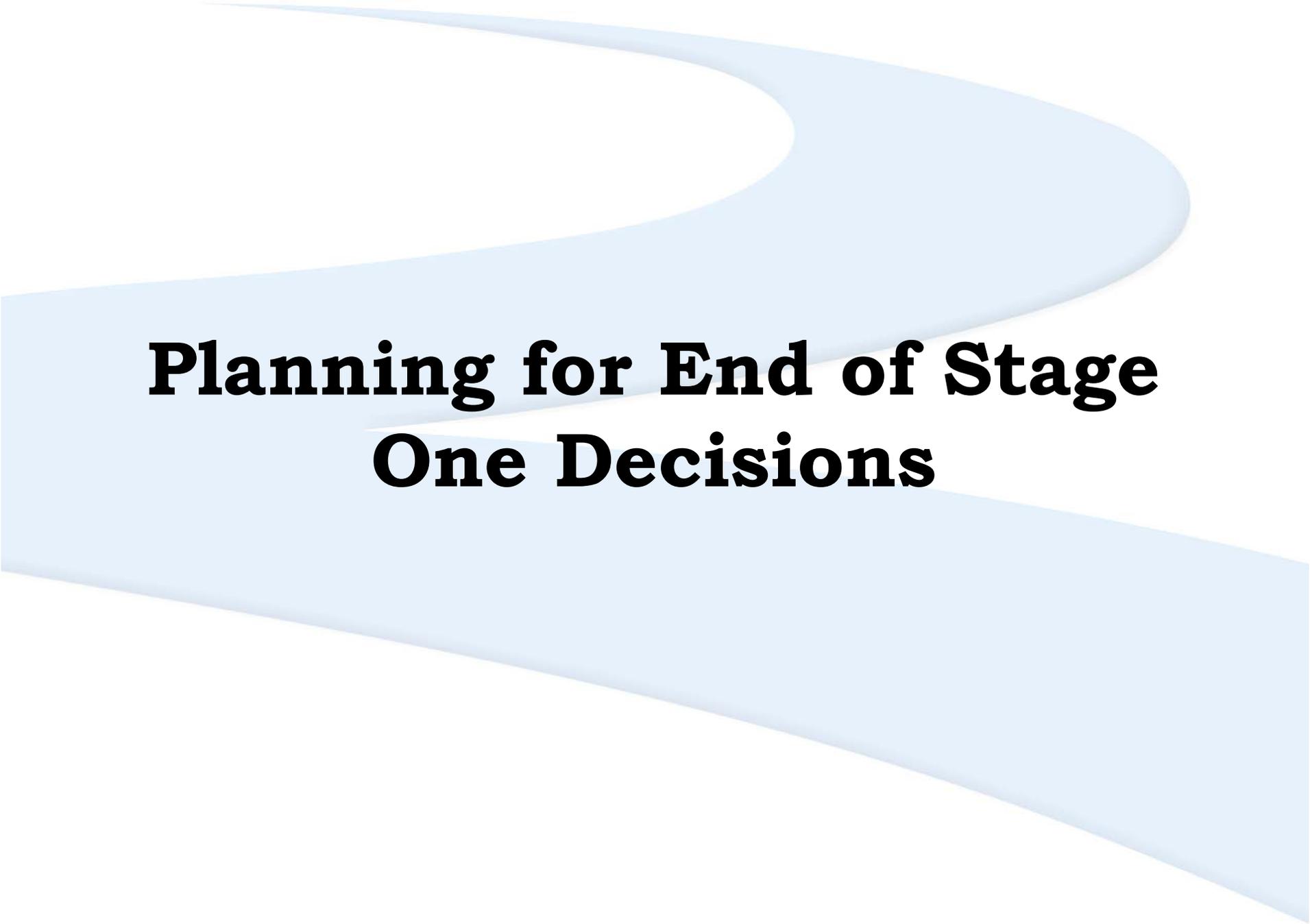
- Delta Risk Management
 Strategy
- Delta Regional Ecosystem
 Restoration Implement Plan
- CALFED Science Program
- Interagency Ecological Progm
- BTH Research & Development
- Universities & Research
 Institutes
- Pelagic Organism Decline
 Team
- Global Climate Change Studies
- Suisun Marsh Ecosystem Plan
- Others

State & Federal Agencies

- Delta Protection Commission
- CALFED Agency Directors (ELC)
- Dept. of Food & Agriculture
- Dept. of Conservation
- CALTRANS
- Housing & Community
 Development
- Delta and SF Regional WQCB
- Reclamation Board & Water
 Commission
- Dept. of Boating & Waterways
- Dept. of Parks & Recreation
- Others

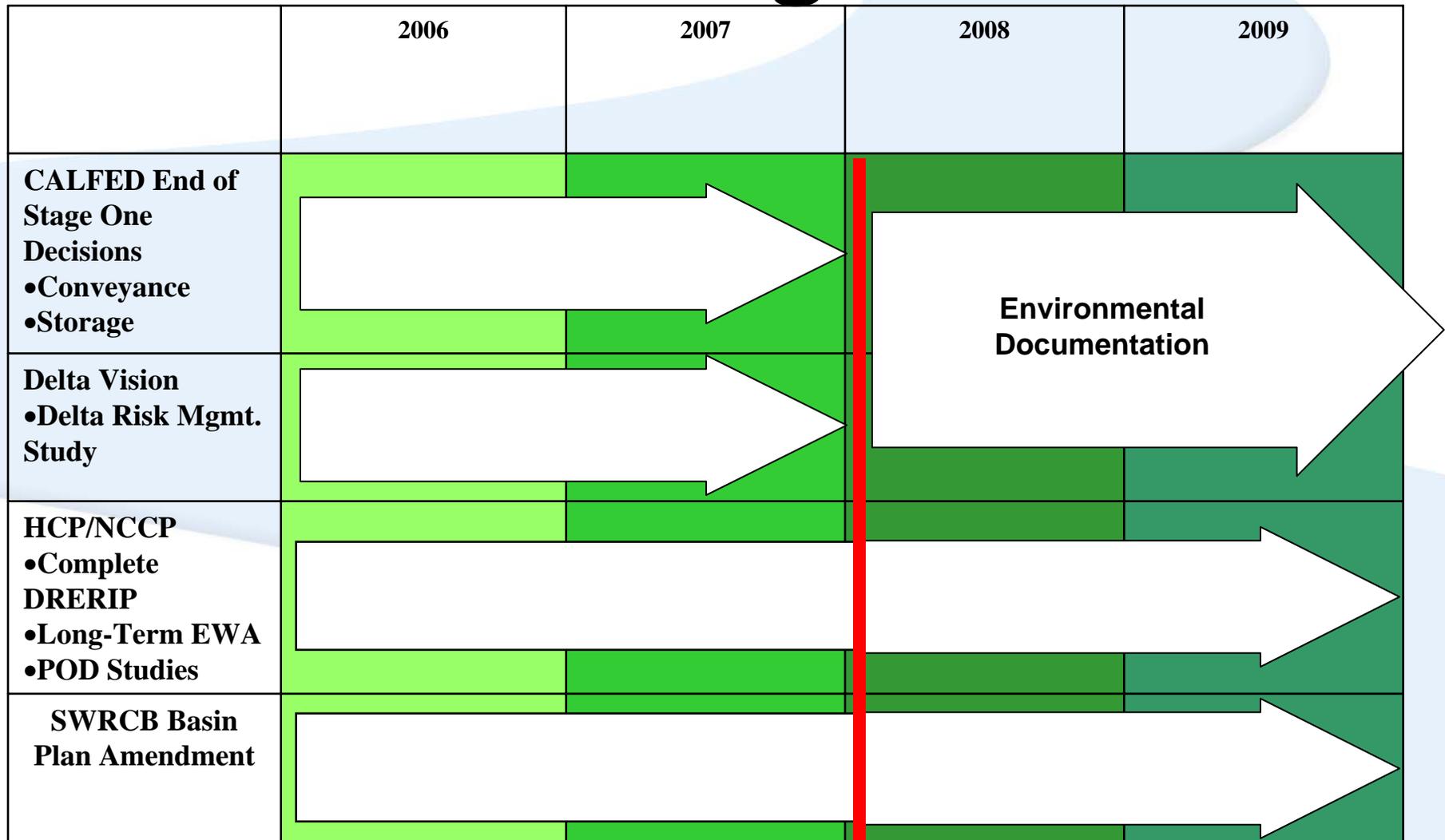


Long-Term EWA



Planning for End of Stage One Decisions

CALFED End of Stage One Linkages



End of Stage One Decisions

- System wide solutions
- Science based water for the environment
- Potential new water supplies to meet So CA demands and reduce Delta Exports
- End of Stage One – Specific yet flexible steps to move forward