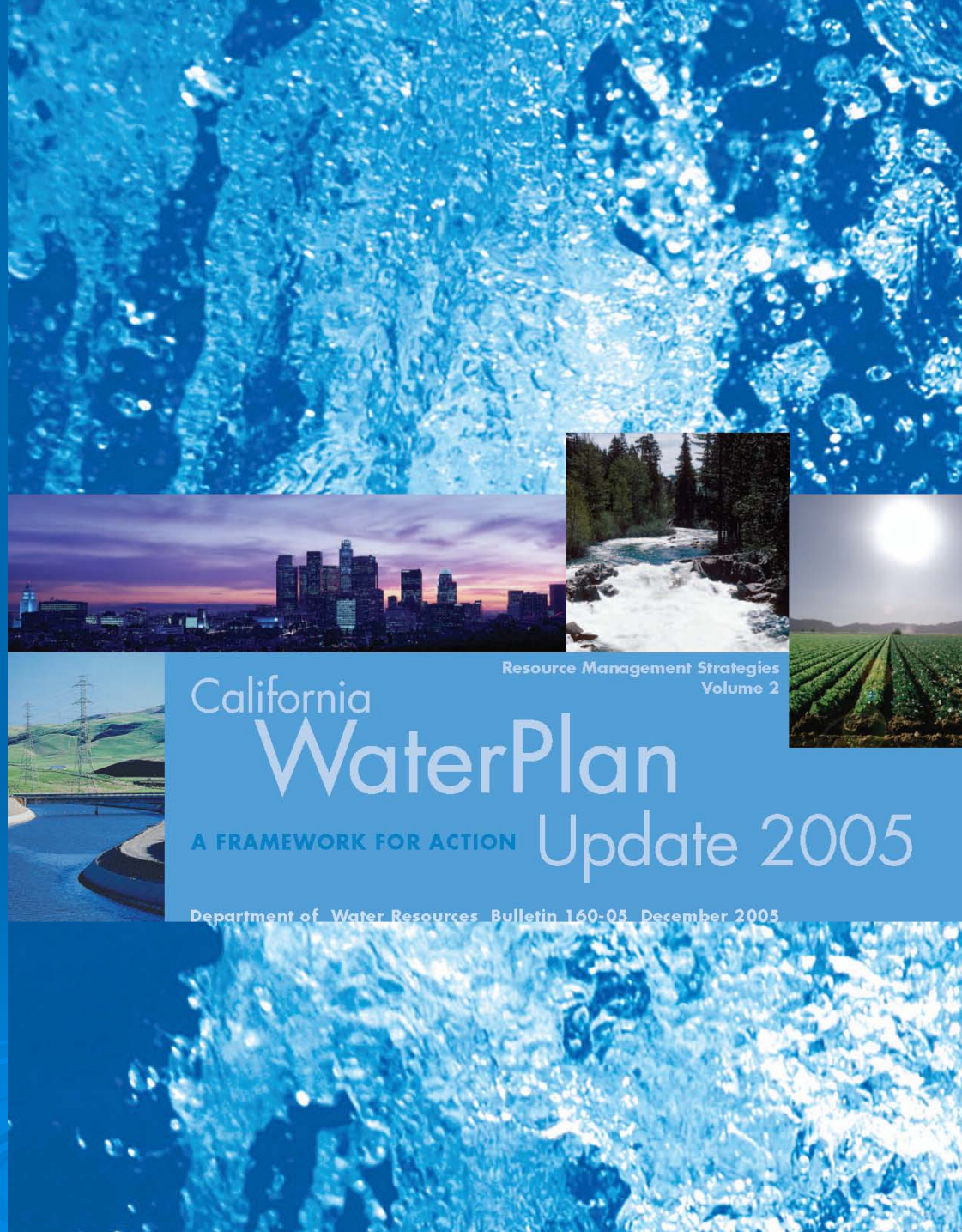
California Water Plan Update 2009

Where We've Been
Where We Are Going

Central Coast Regional Workshop
Santa Barbara
July 23, 2007

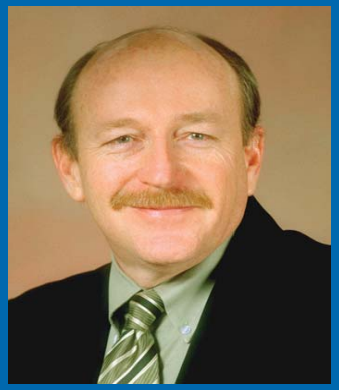


Topics

- Update 2005 Overview
  - Providing a foundation
- Update 2009 Process Guide
  - Multiple ways to participate
- Activities & Content
  - Compiling issues & initiatives
- Products, Meetings & Schedule
  - Developing a work plan

Update 2005 Overview

Director's Message



"This is not just another update of the California Water Plan. Update 2005 represents a fundamental transition in how we look at water resource management in California. It also represents a fundamental transition in the way state government needs to be involved with local entities and interest groups to deal with water issues in the state."

Lester Snow
April 14, 2005

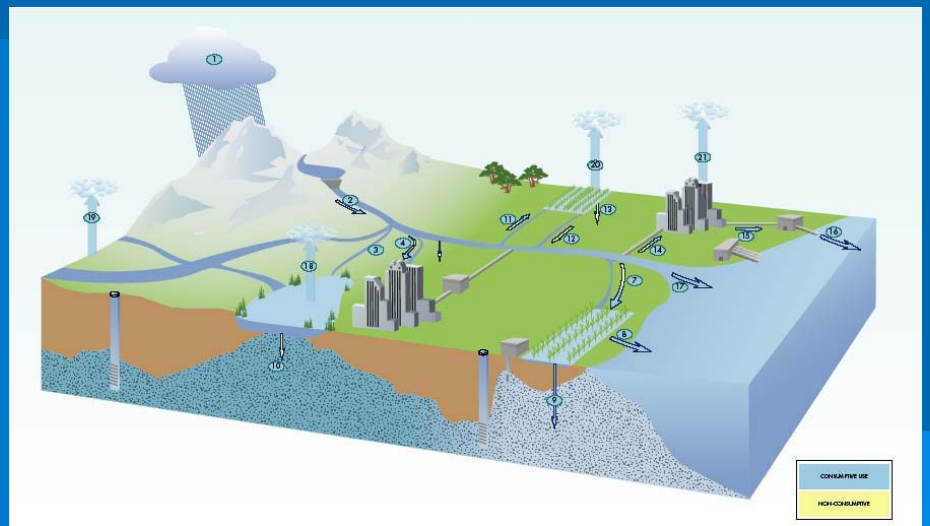
New Process

- Open & transparent public process
- Collaborative recommendations
  - 65 on Advisory Committee
  - 350 in Extended Review Forum
  - 2000 Participants
- A strategic plan

Meeting	Number	Person Hours
Advisory committee	43	12,681
Extended review forum & organizational briefings	43	1,558
Workshops	43	3,161
2005 Public comment workshops	15	1,512
Work groups	62	4,271
Tribal outreach	7	69
Totals	**197**	**23,252**

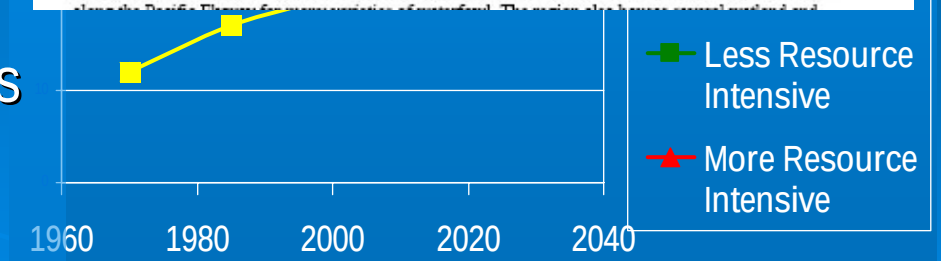
New Features

- Water Portfolios
  - Over 80 data categories of water supply & quality for 1998, 2000 & 2001
- Regional Reports
  - For 10 hydrologic regions, the Delta, and Mountain Counties
- Multiple Future Scenarios
  - Plausible yet different base conditions to plan for uncertainties
- 25 Resource Management Strategies
  - Tools for water managers & resource planners to …



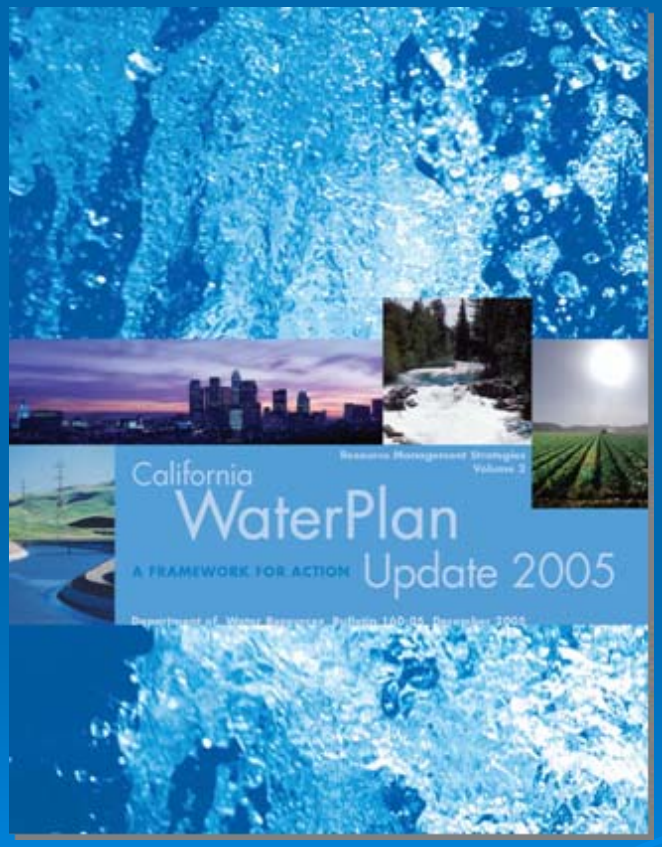
cold, wet winters with large amounts of snow providing runoff for summer water supplies. The Sacramento Valley floor has mild winters with less precipitation and hot dry summers. Overall annual precipitation in the region generally increases as you move from south to north and west to east. The heavy snow and rain that falls in this region contributes to the overall water supply for the entire state.

The many rivers and streams that are tributary to the Sacramento River provide important riparian habitat that is critical for many aquatic and terrestrial species including the spring-run Chinook salmon (Oncorhynchus tshawytscha), winter-run Chinook salmon (Oncorhynchus tshawytscha) and Central Valley steelhead (oncorhynchus mykiss). This region is the only known area for the winter-run Chinook. The valley floor region section adjoining the river, provide some of the most important wintering areas



Stewardship

Water Plan Update Organization



- Introductory Video (8-minutes)
- Water Plan Highlights (with CD & DVD)
- Vol. 1 > Strategic Plan
- Vol. 2 > 25 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide (60+ online articles)
- Vol. 5 > Technical Guide (Online documentation)

Strategic Plan

A Framework for Action

Strategic Plan Overview

- Vision
- Mission
- Goals
- Recommendations
- Implementation Plan

Framework for Action

Sustainable & Reliable Water in 2030

Vision

Vital Economy
Healthy Environment
High Standard of Living

2 Initiatives Ensure Reliable Water Supplies

Implement Integrated Regional Water Management

Improve Statewide Water Management Systems

3 Foundational Actions Ensure Sustainable Water Uses

Use Water Efficiently

Protect Water Quality

Support Environmental Stewardship

Initiative 1
Implement Integrated Regional Water Management

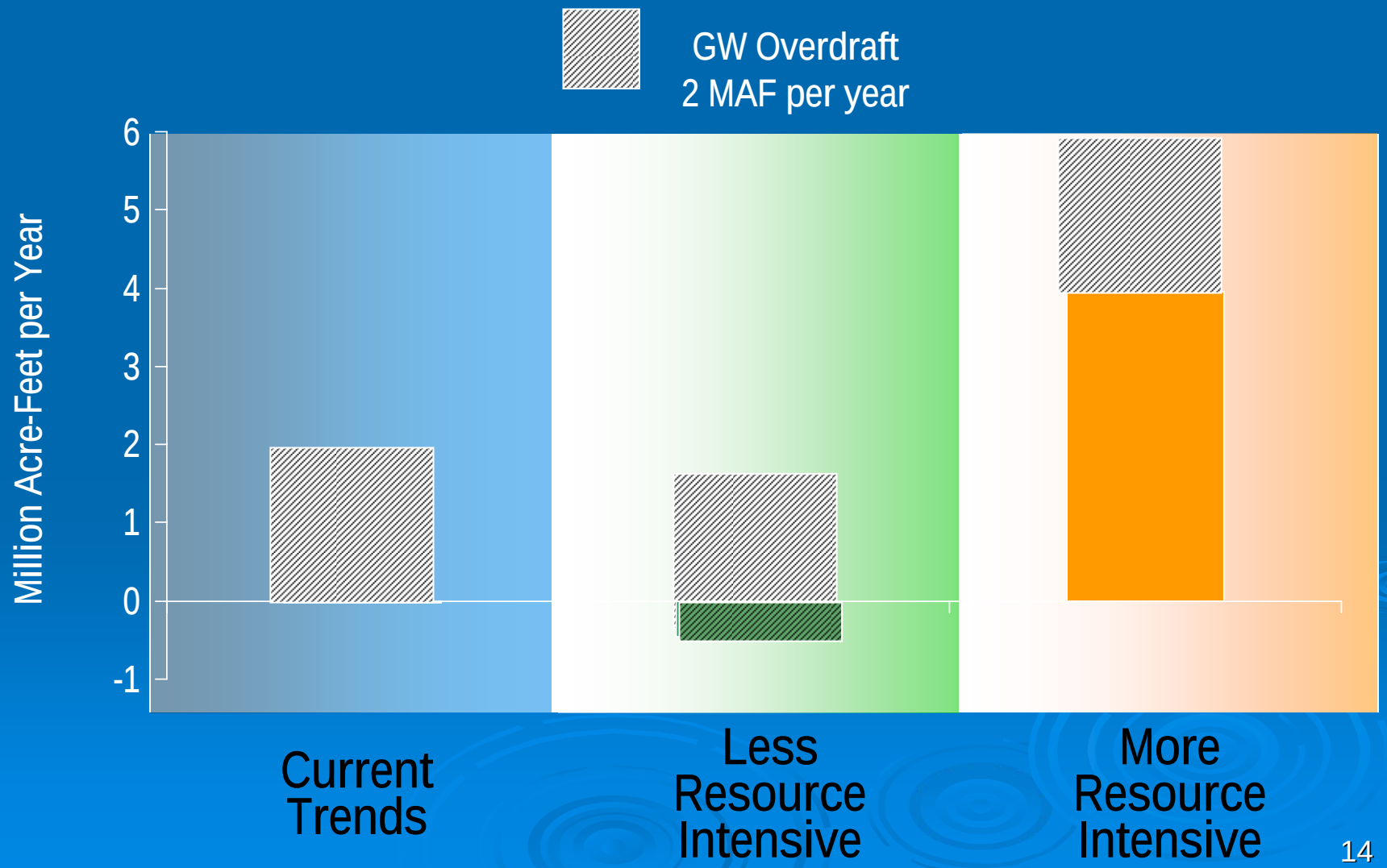
- Foster regional partnerships
- Develop integrated regional water management plans
- Diversify regional water portfolios using mix of strategies

Initiative 2
Improve Statewide Water Management Systems

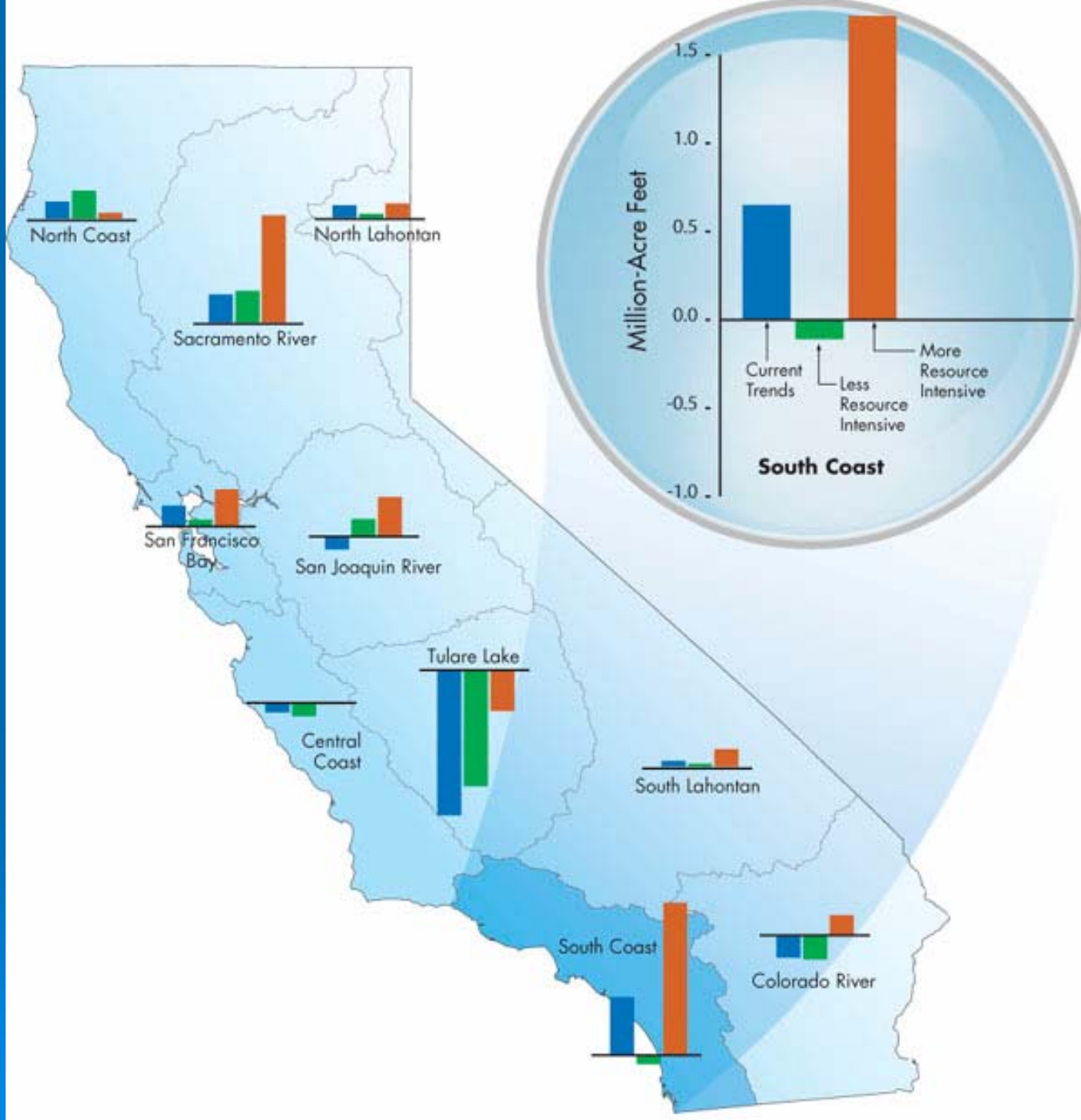
- Improve aging facilities
- Improve flood management
- Sustain the Sacramento-San Joaquin Delta
- Implement CALFED Program
- Implement Statewide Water Management Programs

Scenarios & Diversifying Water Portfolios

Scenario Demand Changes Statewide Plus Groundwater Overdraft



Scenario Demand Changes by Region



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

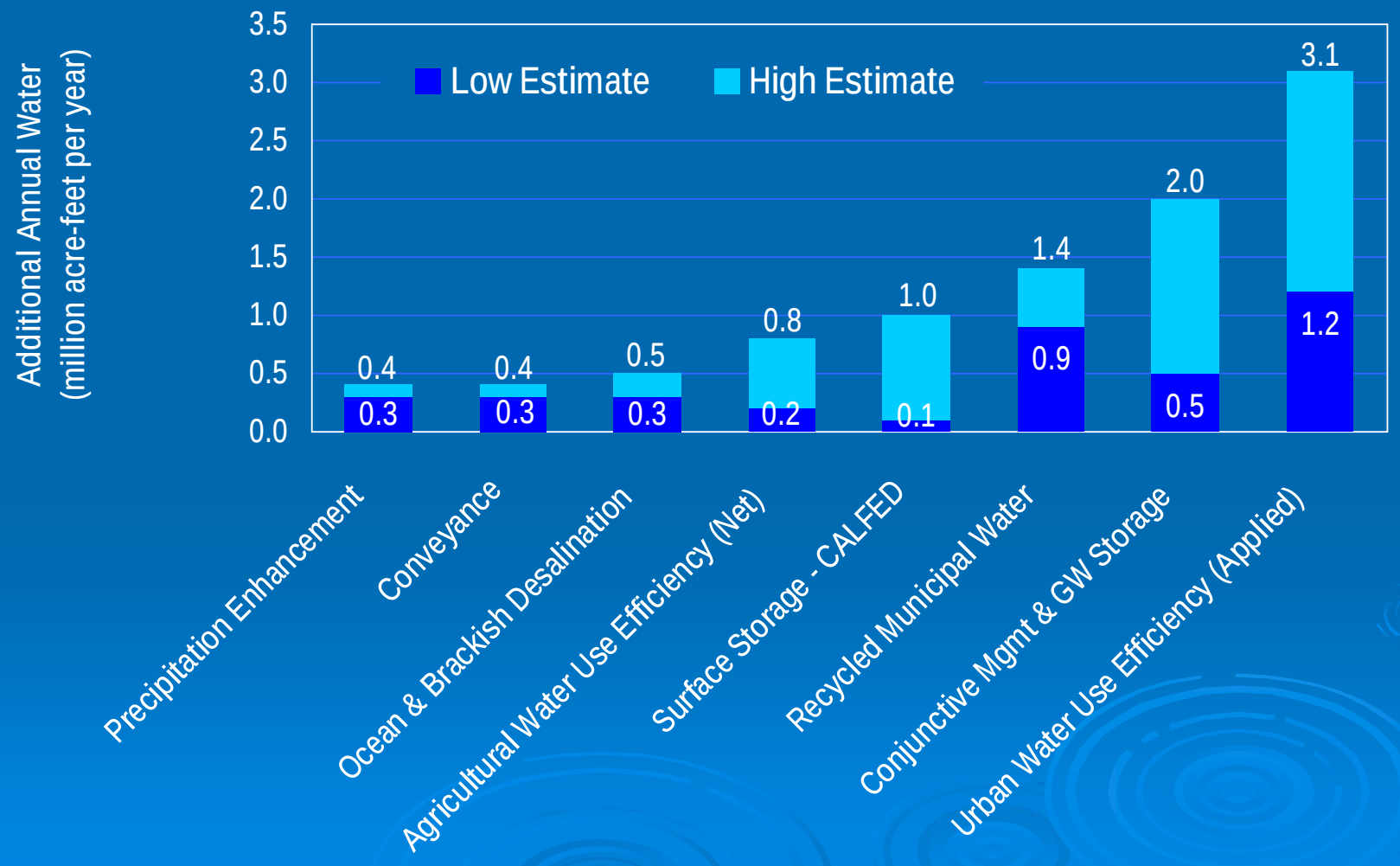
Improve Water Quality

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

Practice Resource Stewardship

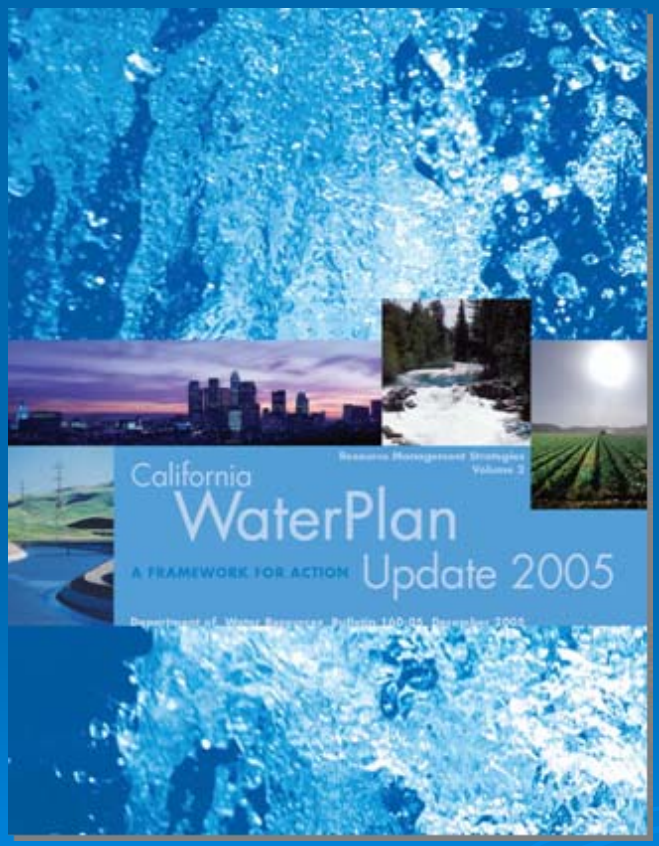
- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Floodplain Management
- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management

Range of Additional Water by 2030 for Eight Resource Management Choices



Update 2009 Process Guide

Update 2005
Process Recommendations



- Expand role & participation of other State agencies
- Expand role & participation of regional planning efforts
- Engage communities of interest & communities of place
- Add a technical advisory group

California Water Plan Update 2009
Process Guide

Public

Advisory Committee

Communities of Interest
Statewide Organizations

Regional Forum & Workshops

Communities of Place
Local Agencies & Governments

Extended Review Forum

Interested Public

Collaboration

Water Plan Steering Committee

State Agencies

Coordination

Federal Agencies

Consultation

Tribal Governments

< *Plenary* >

Everyone

DWR & Other State Agencies

Multi-Disciplinary Project Team

Work Teams

Analytical Tools & Data
Communications Planning
Environmental Water
Facilitation
Integrated Flood Management
Land & Water Use
Resource Management Strategies
Water Supply & Balance
Water Quality

Regional Leads

State staff working with Regional Efforts

Regional Reports

Statewide Water Analysis Network (SWAN)

Scientists & Engineers

Information Exchange & Data Integration | **Climate Change** | **Shared Analytical Tools & Methods**

California Water Plan Update 2009
Process Guide

Public

Advisory Committee

Communities of Interest
Statewide Organizations

Regional Forum & Workshops

Communities of Place
Local Agencies & Governments

Extended Review Forum

Interested Public

Collaboration

Water Plan Steering Committee

State Agencies

Coordination

Federal Agencies

Consultation

Tribal Governments

DWR & Other State Agencies

Multi-Disciplinary Project Team

Work Teams

Analytical Tools & Data
Communications Planning
Environmental Water Facilitation
Integrated Flood Management
Land & Water Use
Resource Management Strategies
Water Supply & Balance
Water Quality

Regional Leads

State staff working with Regional Efforts

Regional Reports

< Plenary >

Everyone

Statewide Water Analysis Network (SWAN)

Scientists & Engineers

Information Exchange & Data Integration | **Climate Change** | **Shared Analytical Tools & Methods**

California Water Plan Update 2009
Process Guide

Public

Advisory Committee

Communities of Interest
Statewide Organizations

Regional Forum & Workshops

Communities of Place
Local Agencies & Governments

Extended Review Forum

Interested Public

Collaboration

Water Plan Steering Committee

State Agencies

Coordination

Federal Agencies

Consultation

Tribal Governments

DWR & Other State Agencies

Multi-Disciplinary Project Team

Work Teams

Analytical Tools & Data
Communications Planning
Environmental Water
Facilitation
Integrated Flood Management
Land & Water Use
Resource Management Strategies
Water Supply & Balance
Water Quality

Regional Leads

State staff working with Regional Efforts

Regional Reports

< Plenary >

Everyone

Statewide Water Analysis Network (SWAN)

Scientists & Engineers

Information Exchange & Data Integration | **Climate Change** | **Shared Analytical Tools & Methods**

California Water Plan Update 2009
Process Guide

Public

Advisory Committee

Communities of Interest
Statewide Organizations

Regional Forum & Workshops

Communities of Place
Local Agencies & Governments

Extended Review Forum

Interested Public

Collaboration

Water Plan Steering Committee

State Agencies

Coordination

Federal Agencies

Consultation

Tribal Governments

< *Plenary* >

Everyone

DWR & Other State Agencies

Multi-Disciplinary Project Team

Work Teams

Analytical Tools & Data
Communications Planning
Environmental Water
Facilitation
Integrated Flood Management
Land & Water Use
Resource Management Strategies
Water Supply & Balance
Water Quality

Regional Leads

State staff working with Regional Efforts

Regional Reports

Statewide Water Analysis Network (SWAN)

Scientists & Engineers

Information Exchange & Data Integration | **Climate Change** | **Shared Analytical Tools & Methods**

Steering Committee Members

- Boating & Waterways
- Business, Transportation & Housing
- Cal-Environmental Protection
- CALFED Bay-Delta Program
- California Energy Commission
- California Public Utilities Commission
- Conservation
- Fish & Game
- Food & Agriculture
- Forestry & Fire Protection
- Health Services
- Parks & Recreation
- Office of Planning & Research
- Native American Heritage Commission
- State Lands Commission
- State Water Resources Control Board
- Water Resources

Advisory Committee Members

Statewide Organizations – Communities of Interest

** Specified in Water Code

- Business **
- Citizen Organizations
- Energy & Water Consumer Advocates
- Environment ** & Public Trust
- Environmental Justice
- Local Government ** & Land Use Planning
- Production Agriculture **
- Recreation
- Water Efficiency
- Water Quality & Public Health
- Water Suppliers ** – Agricultural & Urban
- Watershed & Floodplain Management

Regional Workshops & Forums
Local Agencies & Govts. – Communities of Place

In each region:

- Regionally-based Water Collaboratives
- IRWM Planning Partnerships
- Local Agencies, Governments & Organizations
- State Commissions & Conservancies
- Regional Offices of State & Federal Agencies

Statewide Water Analysis Network
Scientists & Engineers

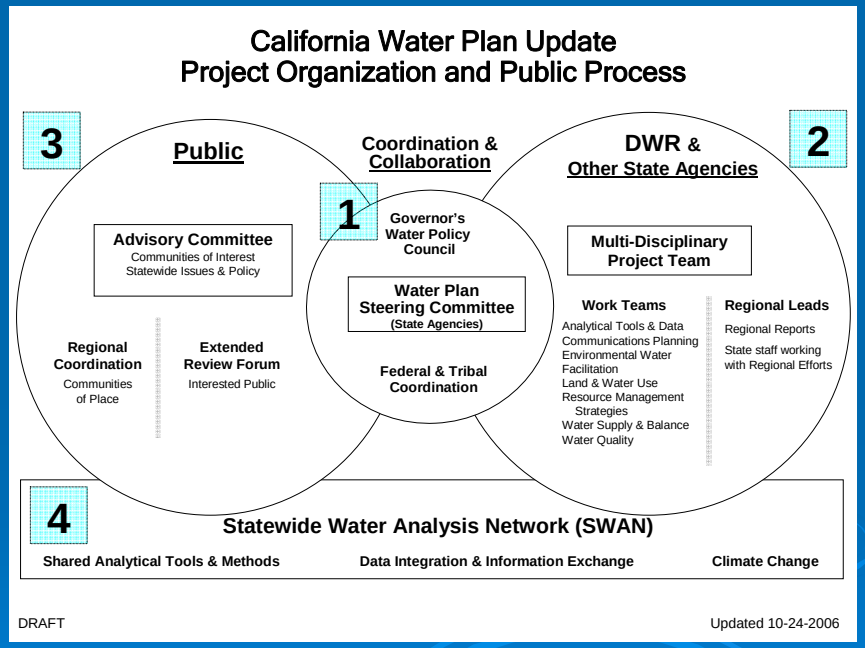
From:

- State Agencies
- Federal Agencies
- Local Agencies
- Non Profit Organizations
- Universities
- Consulting Firms

Activities
&
Content

Update 2009 Activities & Content
Build on Update 2005

1. Evaluate progress on Update 2005 & Revise the Strategic Plan
2. Update the Future Scenarios & develop Response Packages
3. Quantify Climate Change impacts & recommend Adaptation Actions
4. Update & Expand 12 Regional Reports
5. Update 25 Resource Management Strategies
6. Add Water Portfolio data for 5 years: 1999, 2002 – 2005
7. Improve Analytical Tools, Data & Data Exchange

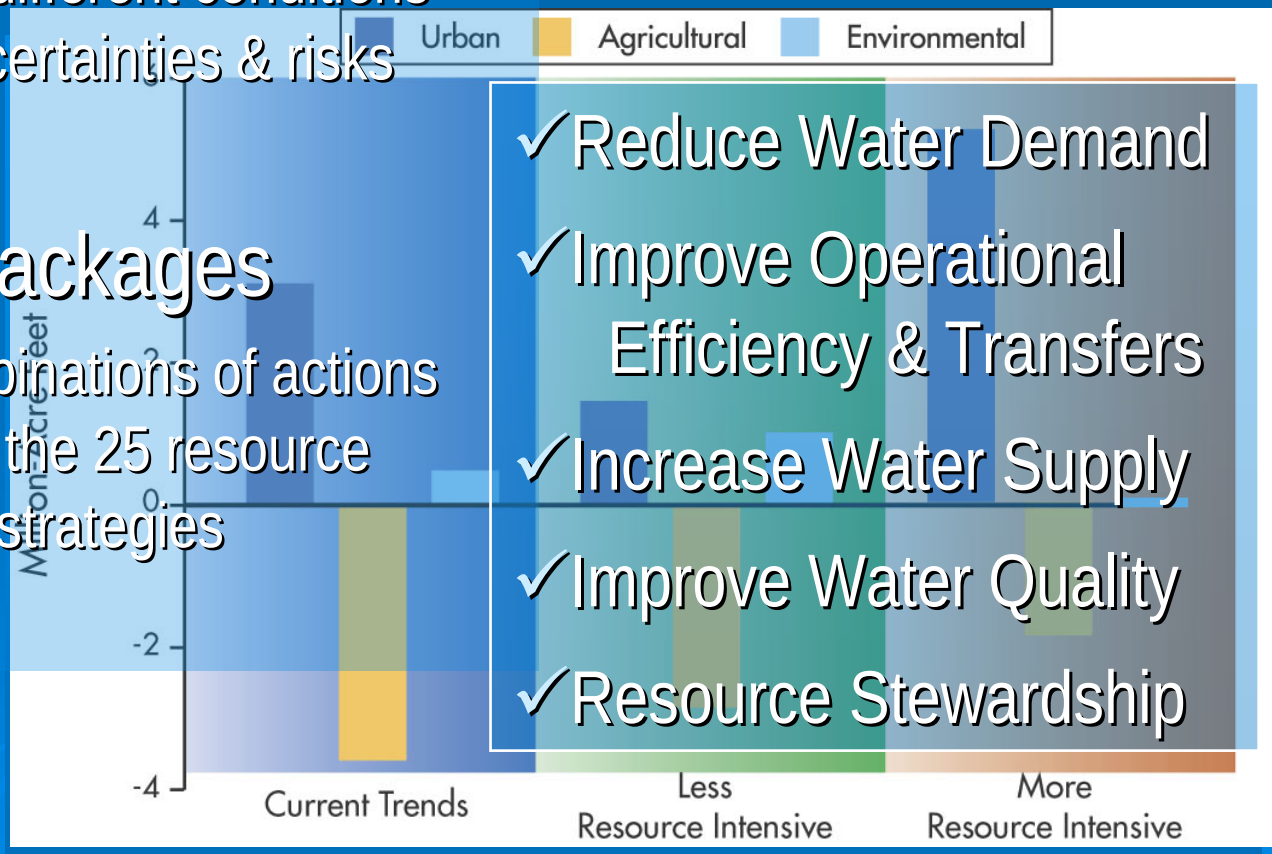


Evaluate Progress on Update 2005 & Revise the Strategic Plan

- Vision
- Mission
- Goals
- Recommendations
- Implementation Plan

Update the Future Scenarios & Develop Response Packages

- Multiple Future Scenarios
  - Plausible yet different conditions to plan for uncertainties & risks
- Response Packages
  - Different combinations of actions selected from the 25 resource management strategies



- ✓Reduce Water Demand
- ✓Improve Operational Efficiency & Transfers
- ✓Increase Water Supply
- ✓Improve Water Quality
- ✓Resource Stewardship

Quantify Climate Change Impacts & Recommend Adaptation Actions

What risks does climate change pose for the management of California's water resources?

Update & Expand 12 Regional Reports

- Build on Update 2005 reports
- Engage regional water planning efforts
- Utilize integrated regional water management plans
- Include regional scenarios and response packages

Update 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

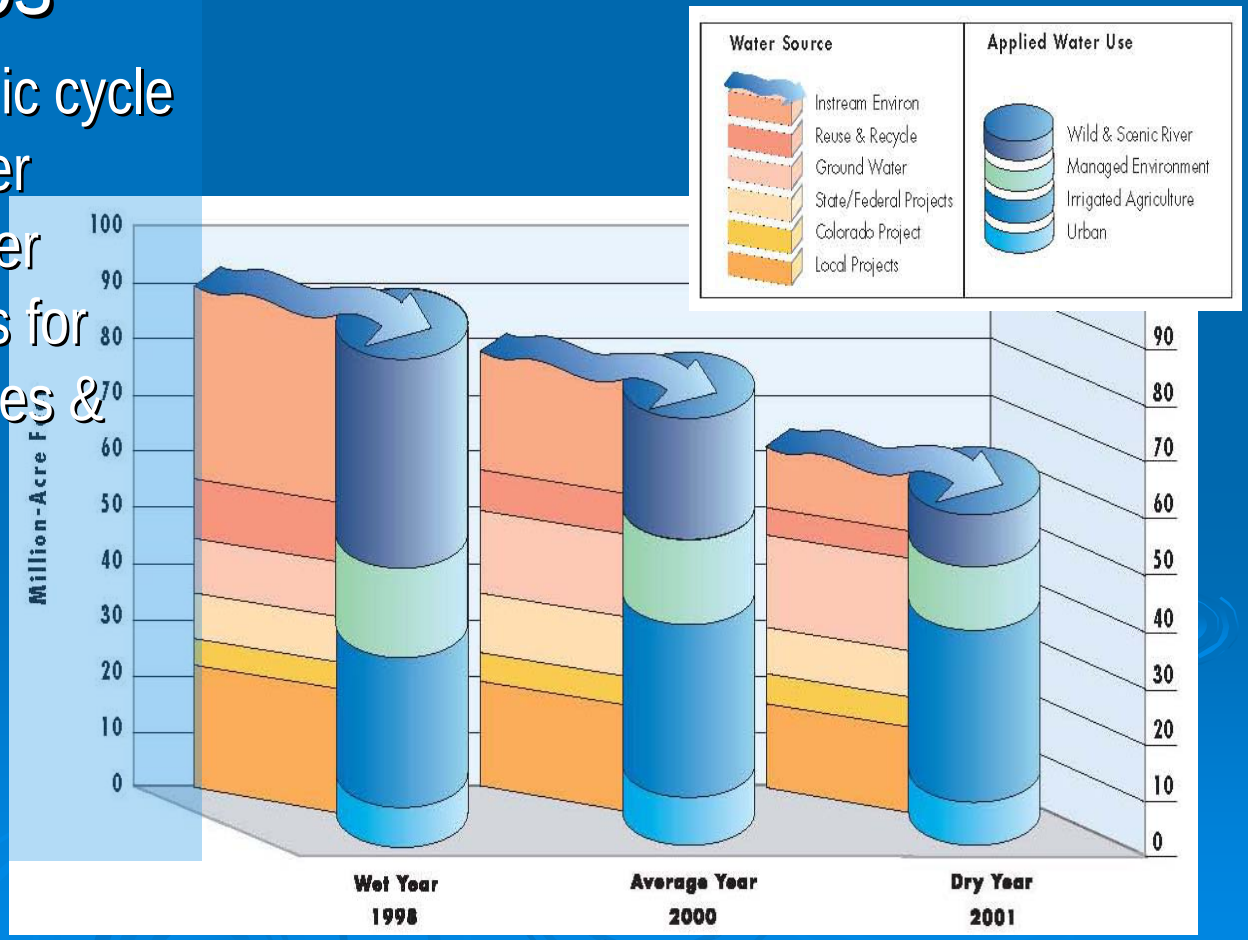
- Drinking Water Treatment and Distribution
- Groundwater/Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Urban Runoff Management

Practice Resource Stewardship

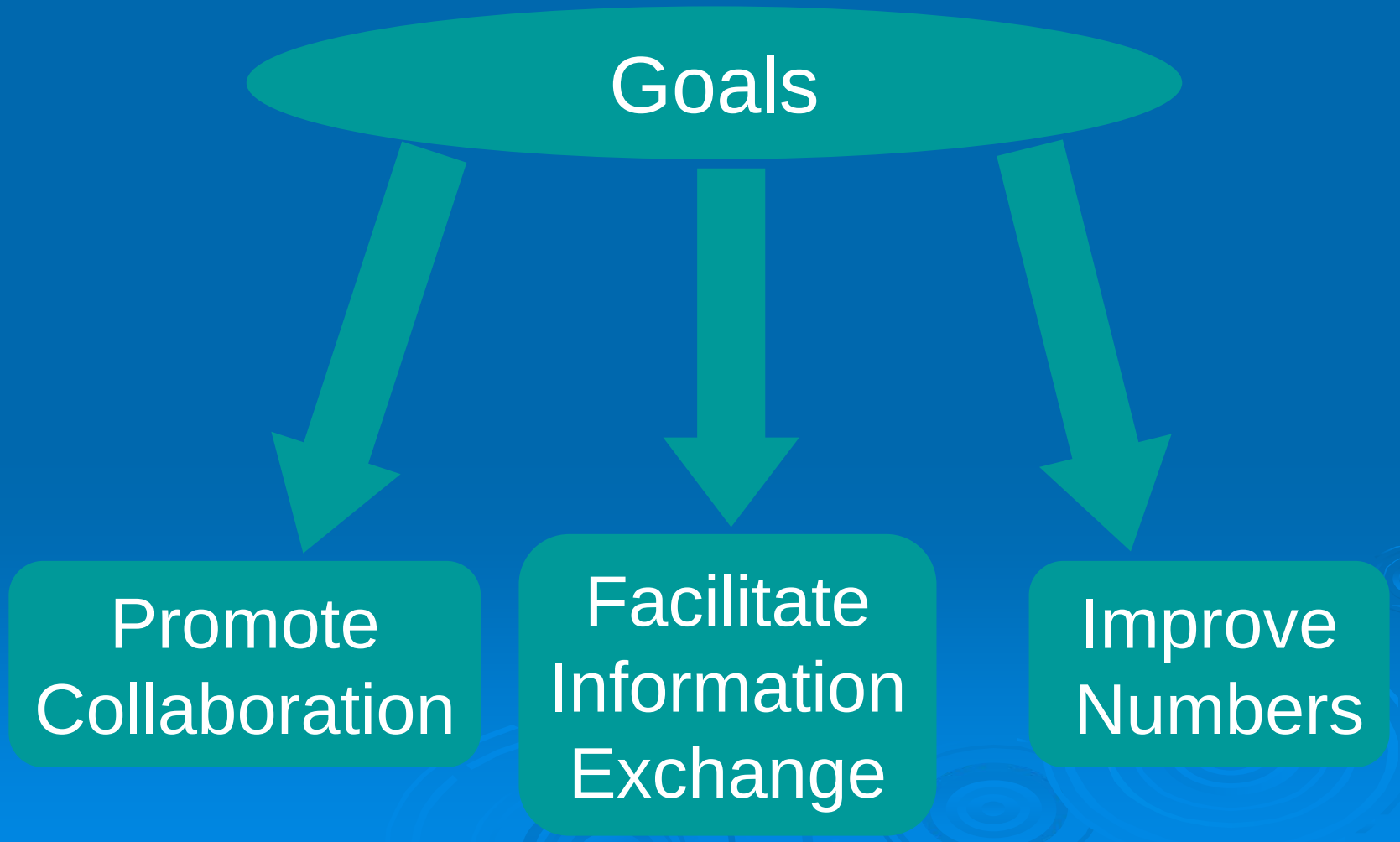
- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Floodplain Management
- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management

Add Water Portfolio Data for 5 years: 1999, 2002 – 2005

- Water Portfolios
  - Describe hydrologic cycle and historical water conditions with over 80 data categories for water uses, supplies & water quality

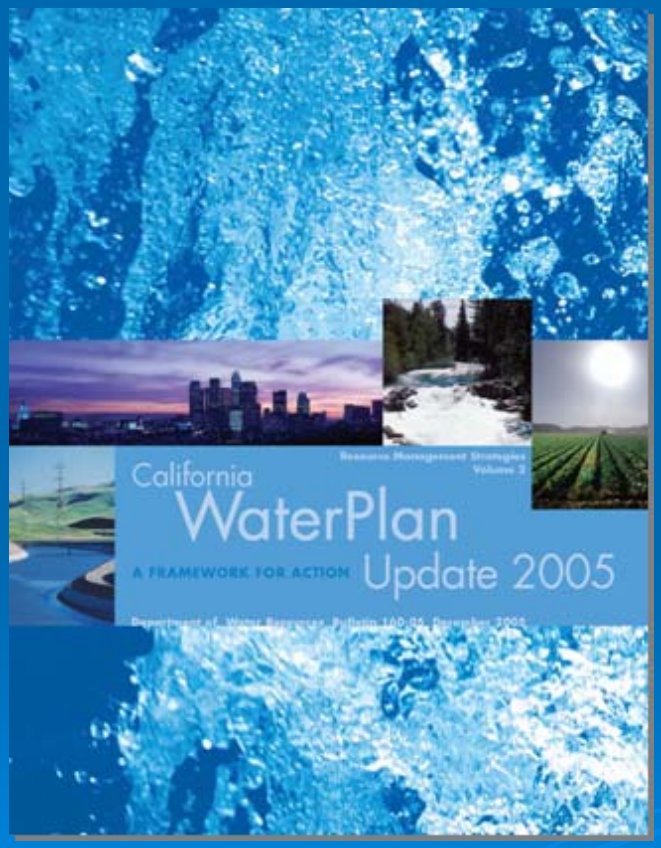


Improve Analytical Tools, Data & Data Exchange



Products, Meetings
&
Schedule

Mandated Products & Due Dates



- Dec. 2007 – Draft Assumptions & Estimates Report
- Dec. 2008 – Public Review Draft Final A&E Report
- Dec. 2009 – Final Water Plan

Meeting Schedule for 2007 - 2009

- 9 Advisory Committee Meetings
- 25 - 30 Regional Workshops
- 3 Regional Forums (All regions)
- 10 - 15 SWAN Workshops
- Topical Workshops (as needed)
- 4 Plenary Summits (Everyone)

- 15 – 20 Steering Committee Mtgs
- Tribal Consultation Meetings
- Federal Coordination Meetings

Meeting Schedule
California Water Plan Update 2009

	2007											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Steering Committee			SC	SC		SC	SC		SC	SC	SC	
Steering Committee Briefing (Prep for AC)					SCB			SCB				
Advisory Committee						AC		AC				AC
Regional Workshops (8-9 locations over 2 months)						RW	RW					
Regional Forum (Multi Region Gathering)									RF			
As needed - facilitated AC/SC Topic Workshops								W	W	W	W	W
Plenary										P		

	2008											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Steering Committee Meeting	SC	SC		SC	SC			SC		SC	SC	
Steering Committee Briefing (Prep for AC)			SCB			SCB			SCB			
Advisory Committee Meeting			AC						AC			AC
Regional Workshops (8-9 locations over 2 months)	RW	RW										
Regional Forum (Multi Region Gathering)					RF							
As needed - facilitated AC/SC topic meetings	W	W	W	W								
Plenary						P						

	2009											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Steering Committee Meeting	SC	SC		SC	SC			SC	SC	SC	SC	
Steering Committee Briefing (Prep for AC)			SCB				SCB					
Advisory Committee Meeting			AC				AC			AC		
Regional Workshops (8-9 locations over 2 months)				RW	RW							
Regional Forum (Multi Region Gathering)								RF				
Public Comment Workshops			PCW	PCW	PCW							
Plenary									P			P

Discussion (A)

Elements of Water Plan of Importance to the Regions