

California Water Plan Update 2005

California Bay-Delta Authority &
Bay-Delta Public Advisory Committee
April 13, 2005

The bottom right portion of the slide features several concentric, light blue circular ripples that resemble water droplets hitting a surface, set against the solid blue background.

Key Purposes of Water Plan

- Framework for California Water Policy
- Information to assist Water Community
 - Current supplies and water uses
 - Future scenarios and potential water demands
 - Information on resource management strategies



Water Plan Update Organization

- Water Plan Highlights (Briefing book w/ CD)
- Volume 1 - Strategic Plan
- Volume 2 - 25 Resource Management Strategies
- Volume 3 - 12 Regional Reports
- Volume 4 - Reference Guide
- Volume 5 - Technical Guide

New Features

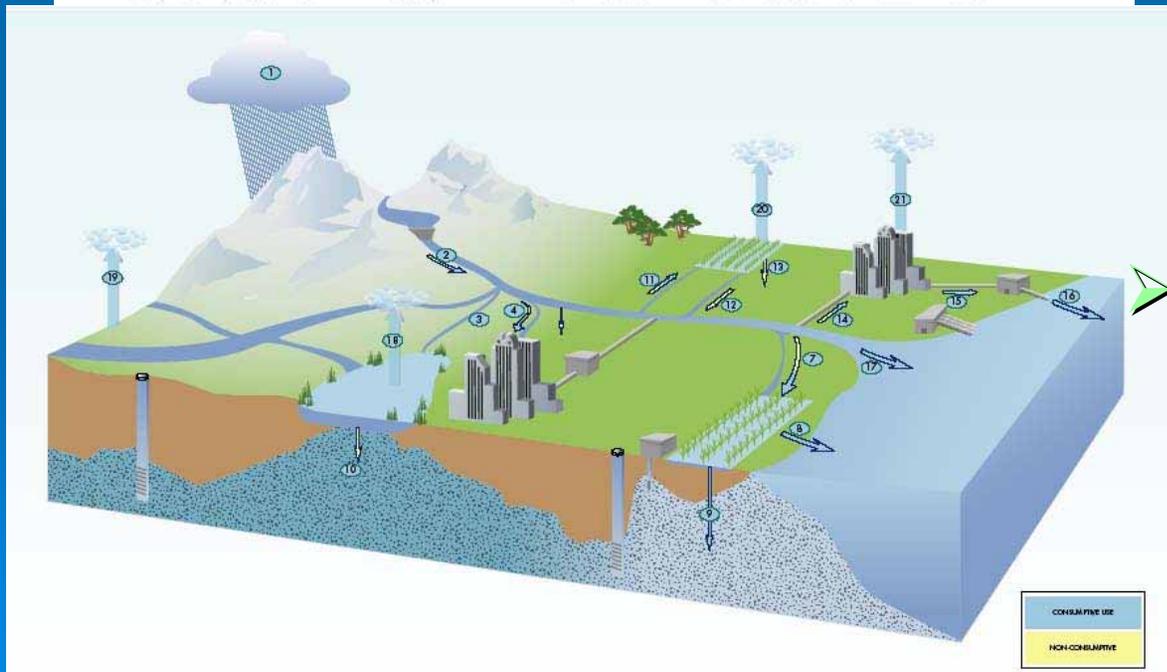
The California Water Plan Volume 3 – Regional Reports
Chapter 6. Sacramento River Hydrologic Region

Administrative Review Draft

Chapter 6. Sacramento River Hydrologic Region

Setting

The Sacramento River Hydrologic Region includes the entire drainage area of the state's largest river and its tributaries, extending from the Oregon border downstream to the Sacramento – San Joaquin Delta. The region covers 27,246 square miles including all or a portion of 20 predominately rural northern California counties, and extends from the crest of the Sierra Nevada in the east to the summit of the Coast Range in the west. The northernmost area, mainly high desert plateau, is characterized by cold, snowy winters with only moderate rainfall, and hot, dry summers. The mountainous parts in the north and east typically have 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



Water Portfolios

- Hydrologic cycle & water quality with over 80 data categories for years 1998, 2000 & 2001

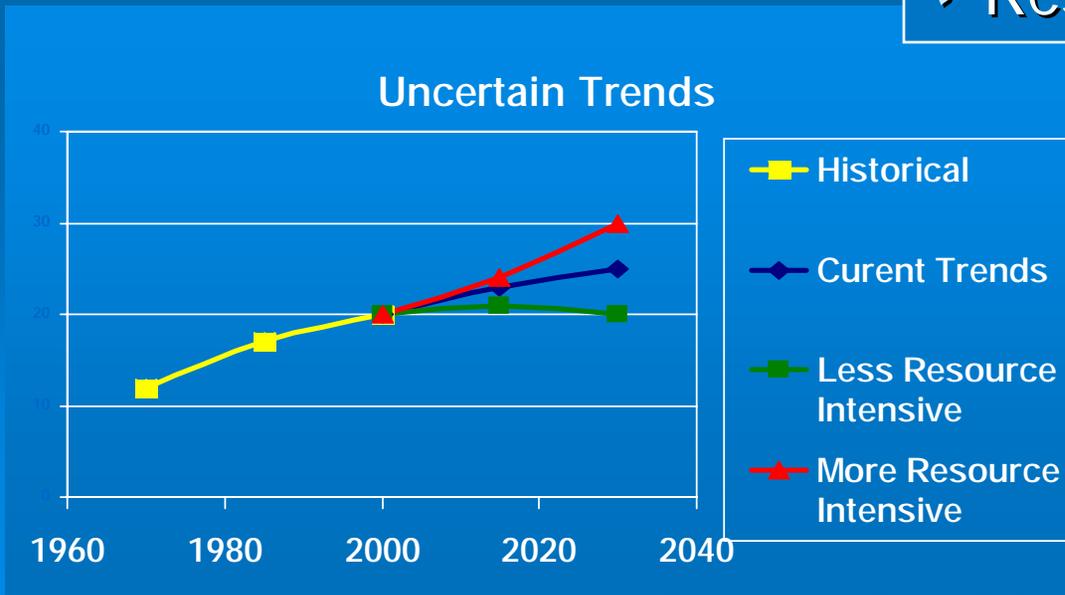
Regional Reports

- Setting, challenges, goals, planning efforts & water portfolio

New Features (continued)

- Multiple Future Scenarios
 - Plausible yet different futures to plan for uncertainties & risks
- 25 Resource Management Strategies
 - Ways to reduce demands, improve system efficiency, increase supplies, improve quality & sustain resources

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



Strategic Plan Overview

Vision

Mission

Goals

Recommendations

Implementation Plan

Framework for Action

Sustainable & Reliable Water in 2030

Foundational
Actions for
Sustainability



Use
Water
Efficiently

Protect
Water
Quality

Support
Environmental
Stewardship

Foundational Action: *Use Water Efficiently*

- Increase urban and agricultural water use efficiency
- Increase recycling & reuse
- Reoperate facilities to improve efficiencies
- Facilitate transfers to avoid regional shortages
- Eliminate groundwater overdraft



Foundational Action: *Protect Water Quality*

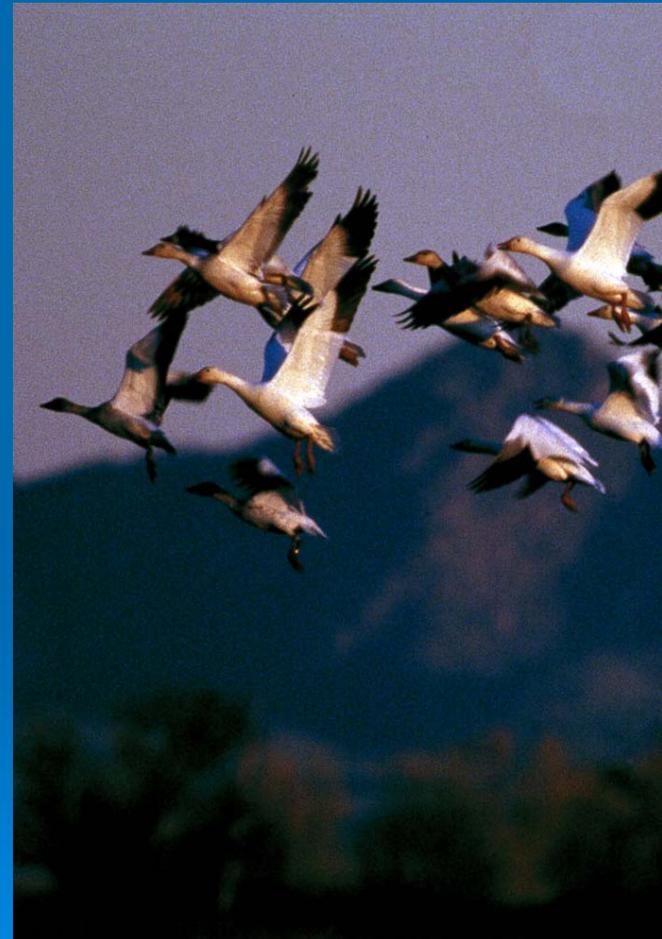
- Protect supply sources from contamination
- Explore new treatment technologies
- Match water quality to use
- Improve runoff management
- Improve watershed management



Foundational Action:

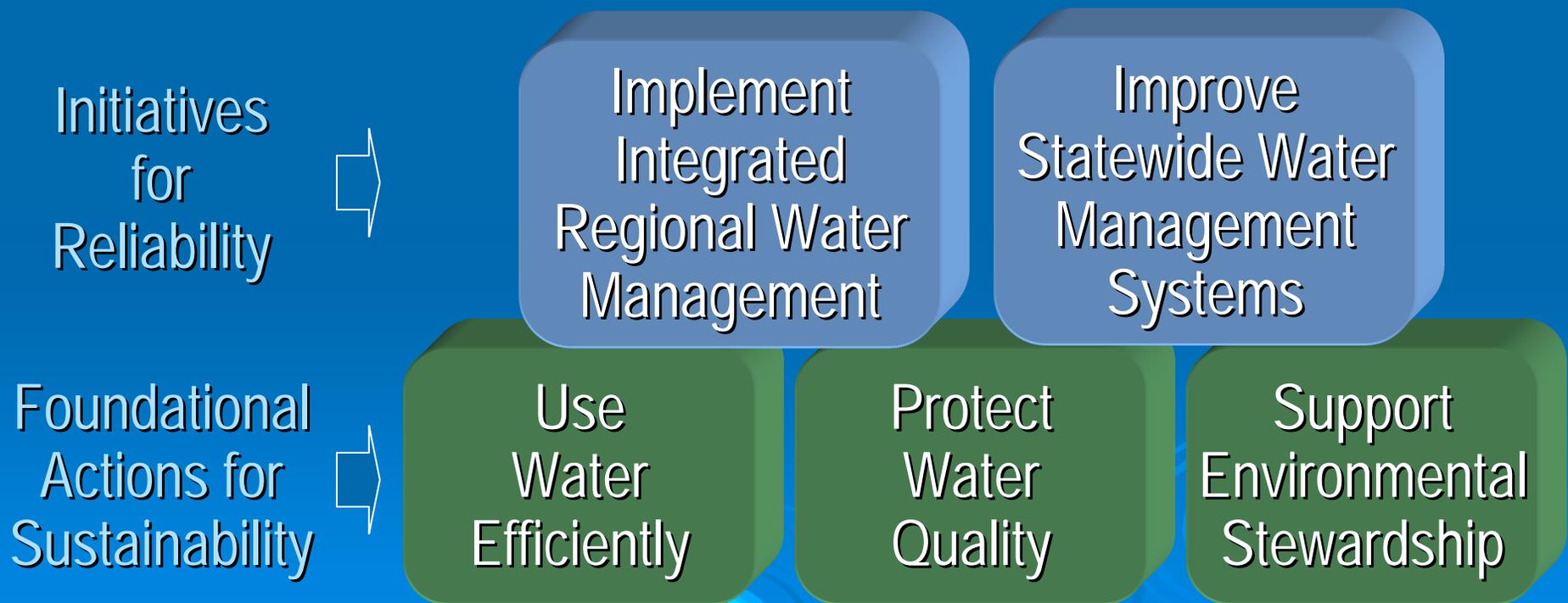
Support Environmental Stewardship

- Integrate ecosystem restoration with water planning & land use planning
- Restore aquatic ecosystems
- Minimize alteration of ecosystems
- Improve watershed management
- Protect public trust resources
- Integrate flood management with water supply management



Framework for Action

Sustainable & Reliable Water in 2030



A map of California is shown, divided into several distinct regions, each highlighted with a different color. The regions include the North Coast (purple), Central Coast (pink), Sacramento Valley (orange), Central Valley (red), South Coast (yellow), and the San Joaquin Valley (brown). The map is set against a blue background with faint water ripples.

Initiative 1: *Implement Integrated Regional Water Management*

- Foster regional partnerships
- Develop integrated regional water management plans
- Diversify regional water portfolios



Initiative 2: *Improve Statewide Water Management Systems*

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



Essential Support Activities

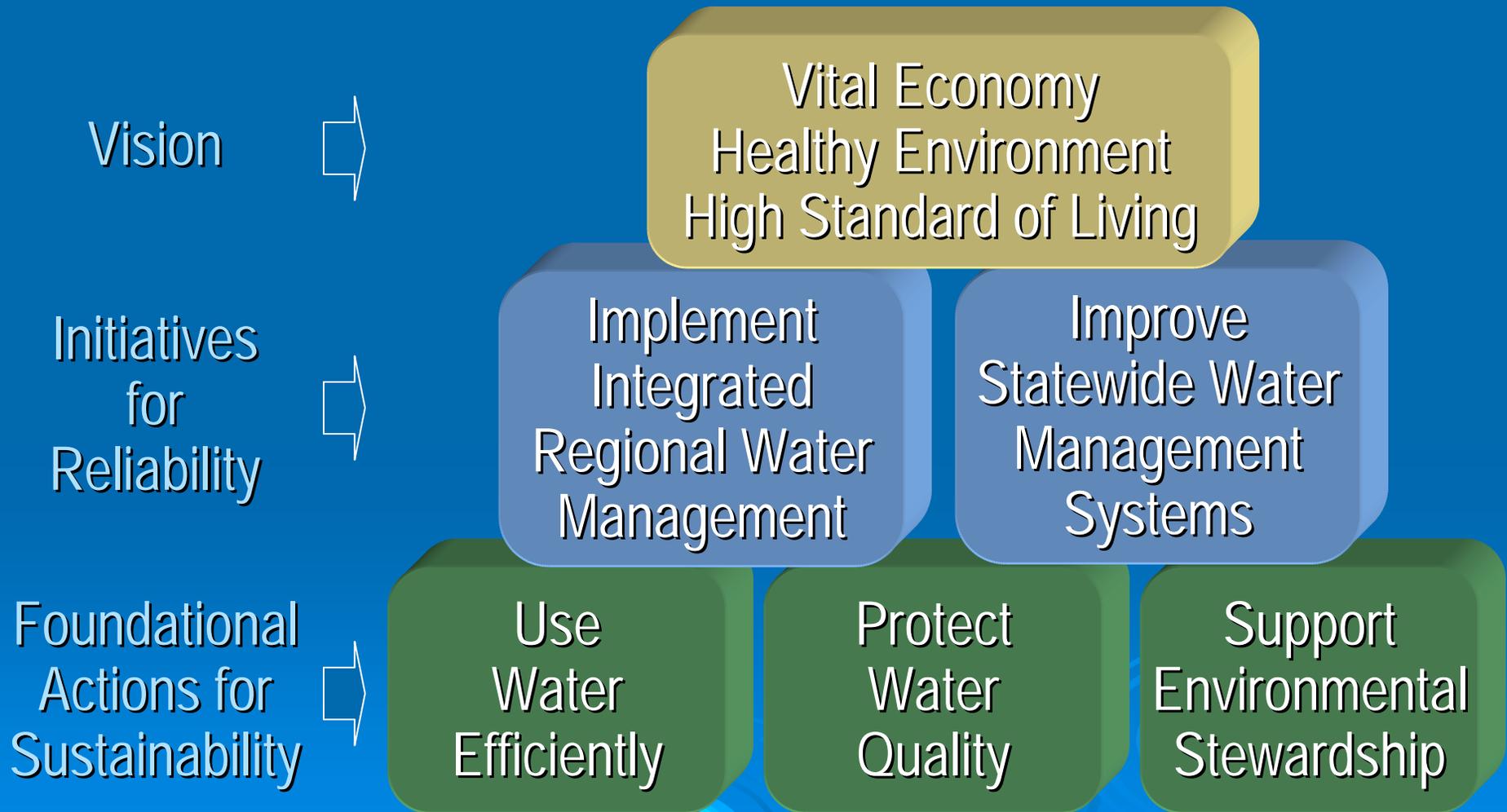
- Provide effective State leadership, oversight & assistance
 - Clarify State, federal and local roles & responsibilities
 - Develop funding strategies
 - Increase tribal participation and access to funding
 - Ensure Environmental Justice
- 

Essential Support Activities (continued)

- Adapt for global climate change impacts
 - Invest in new water technology
 - Improve water data management and analysis
 - Increase scientific understanding
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- The bottom of the slide features a decorative graphic of several concentric circles, resembling ripples on water, in a lighter shade of blue against the dark blue background.

Framework for Action

Sustainable & Reliable Water in 2030



Planning for the Future



3 No-Action Scenarios for 2030

Plausible Yet Different Futures

➤ Current Trends

- Recent trends continue into the future

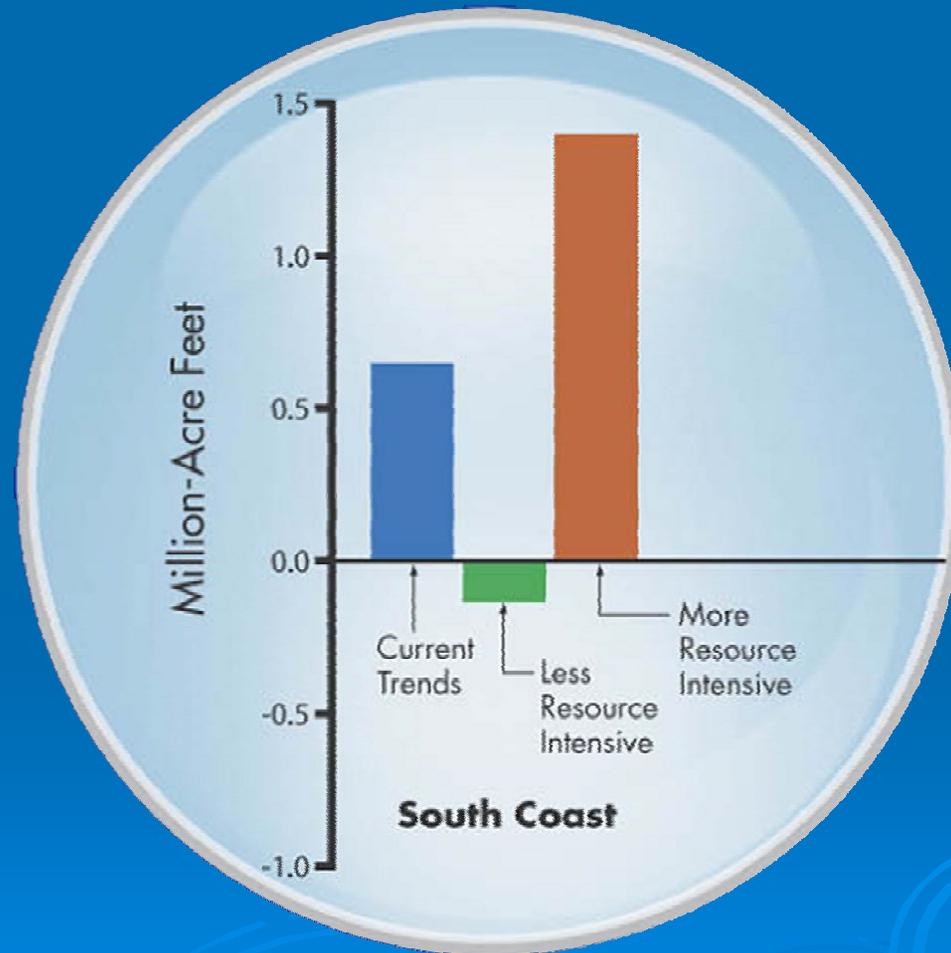
➤ Less Resource Intensive

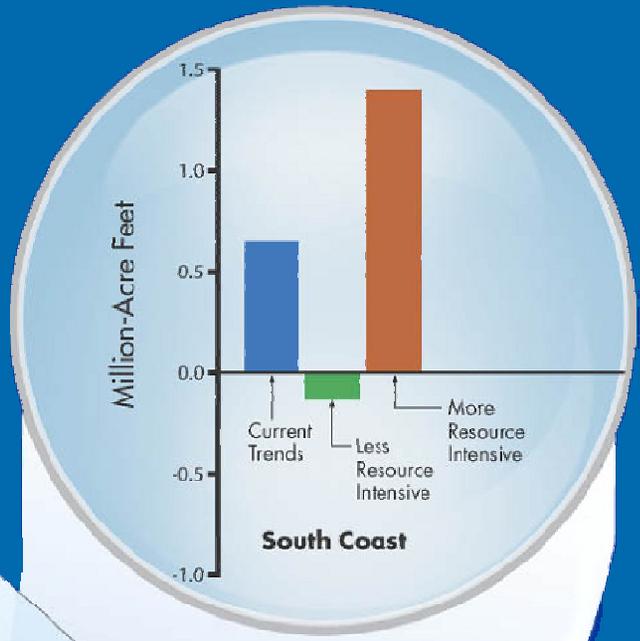
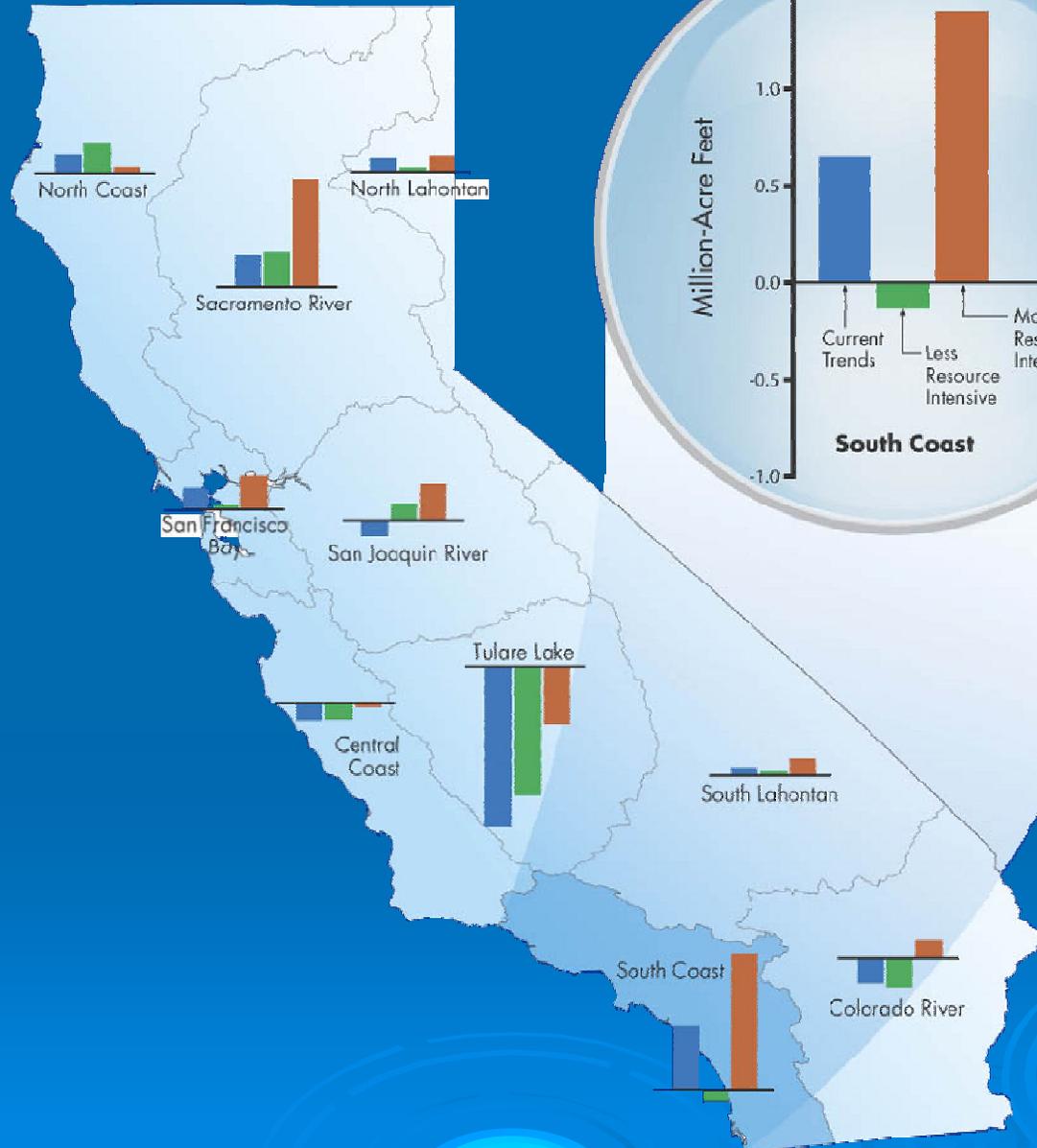
- More water dedicated for the environment
- More background water conservation

➤ More Resource Intensive

- Higher population growth
 - Environmental water at year 2000 level
 - Less background water conservation
- 

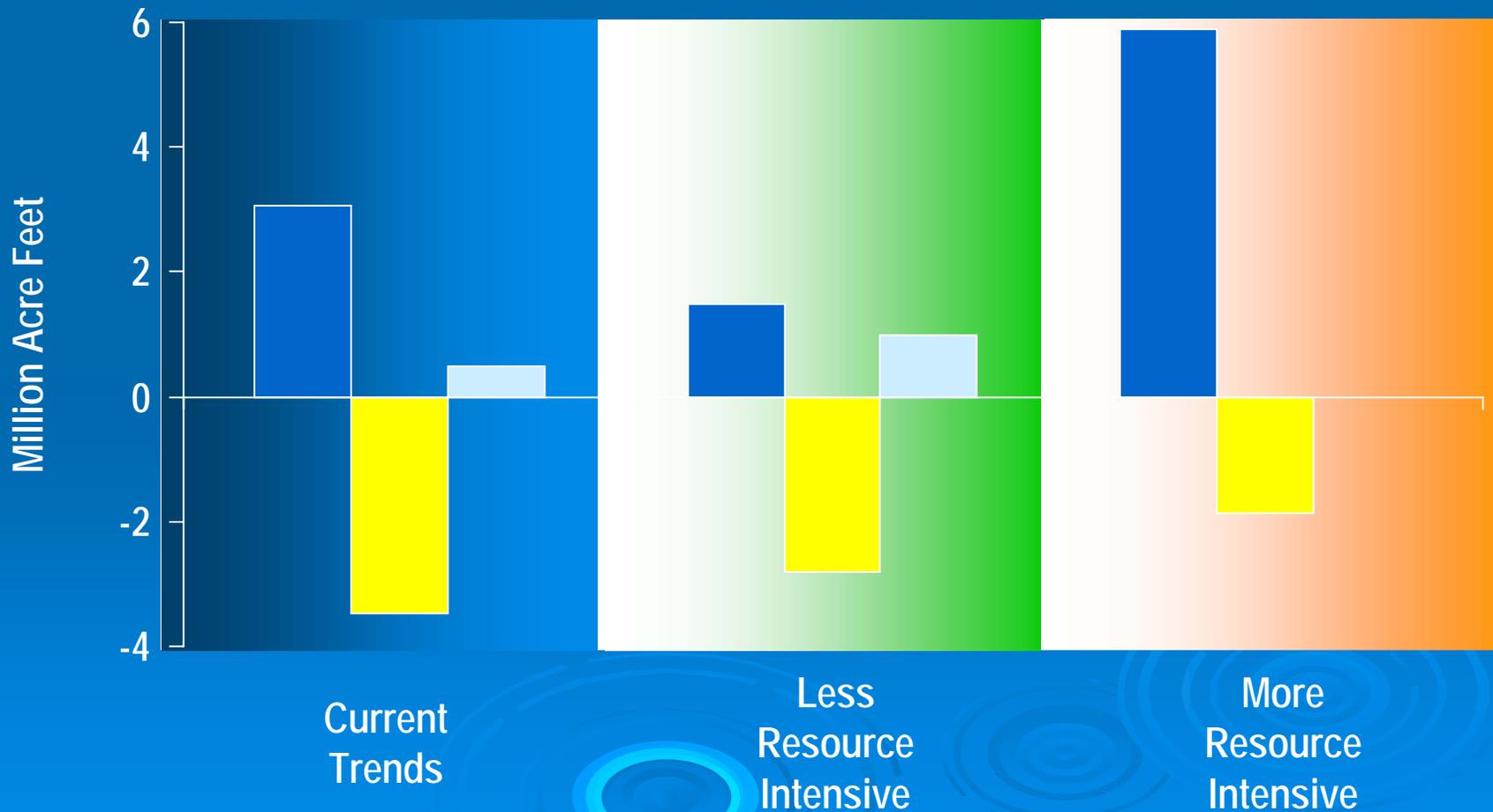
Demand Changes Scenario & Region



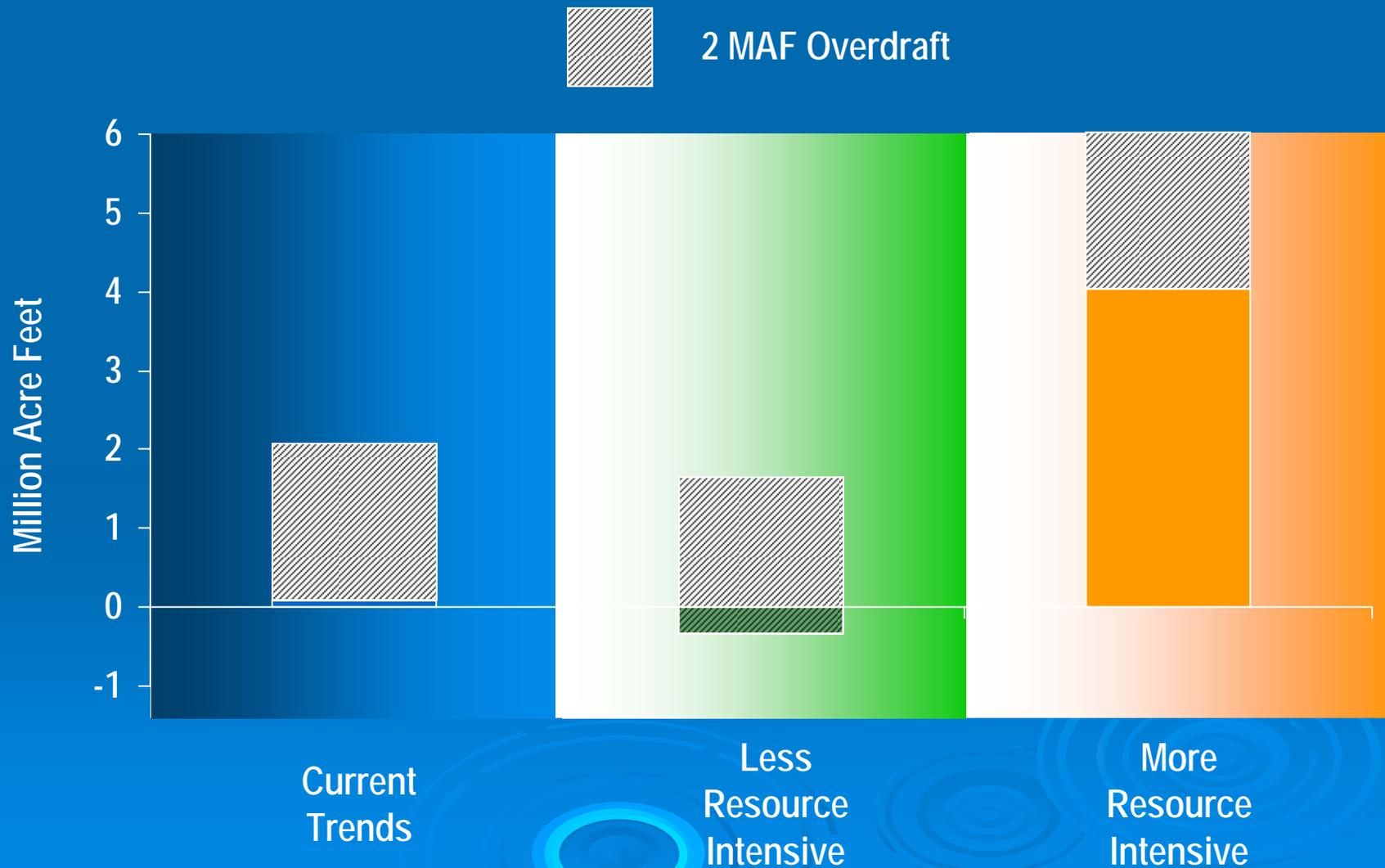


Statewide Demand Changes by Sector

Urban Agriculture Environmental



Net Statewide Demand Changes



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

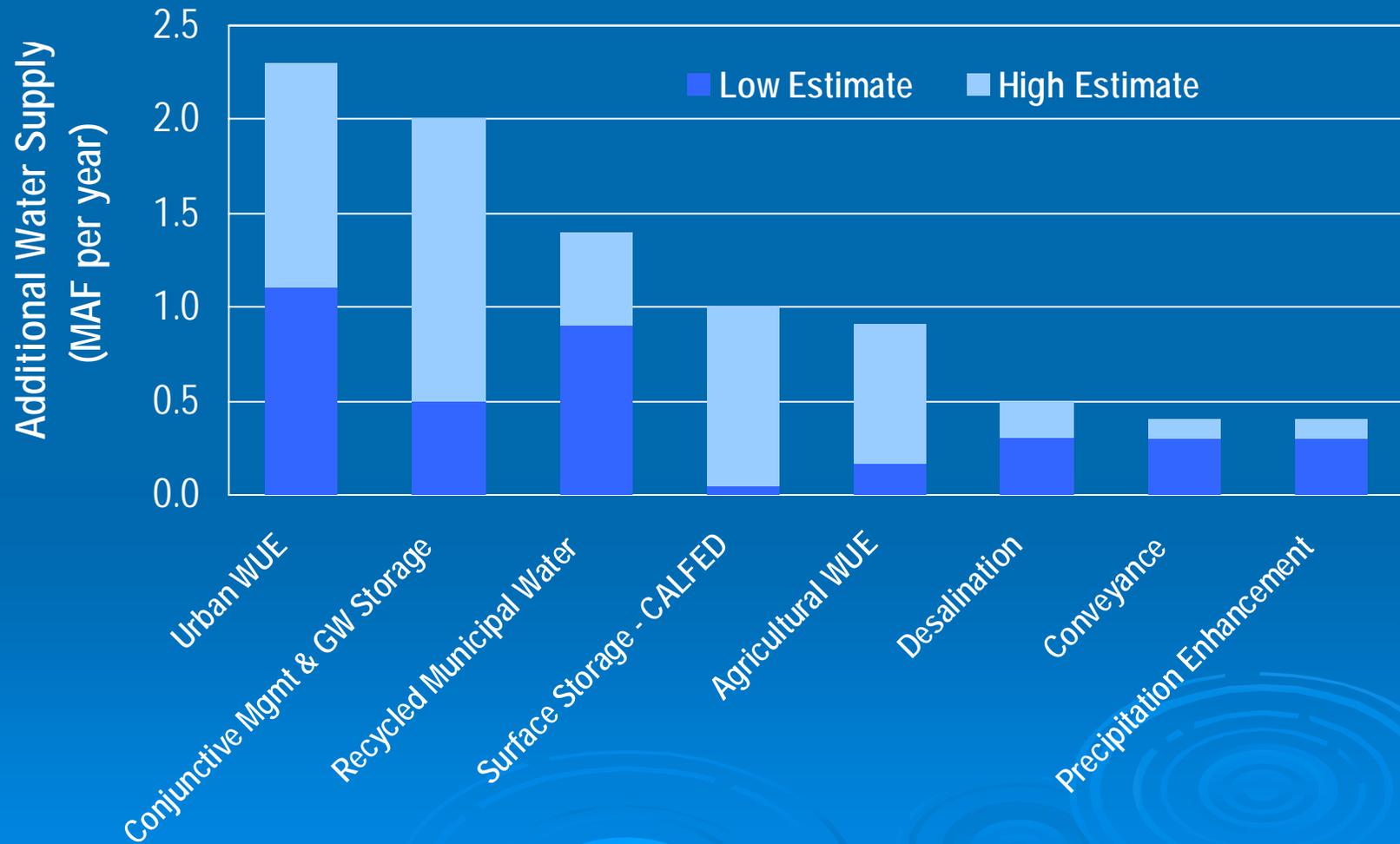
Improve Water Quality

- 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 Water Supply Benefits



Production Schedule

- Public Review Draft - April 2005
- Public Hearings - June 2005
- Final Water Plan - Fall 2005

www.waterplan.ca.gov



Framework for Action

Sustainable & Reliable Water in 2030

Vision



Vital Economy
Healthy Environment
High Standard of Living

Initiatives
for
Reliability



Implement
Integrated
Regional Water
Management

Improve
Statewide Water
Management
Systems

Foundational
Actions for
Sustainability



Use
Water
Efficiently

Protect
Water
Quality

Support
Environmental
Stewardship

