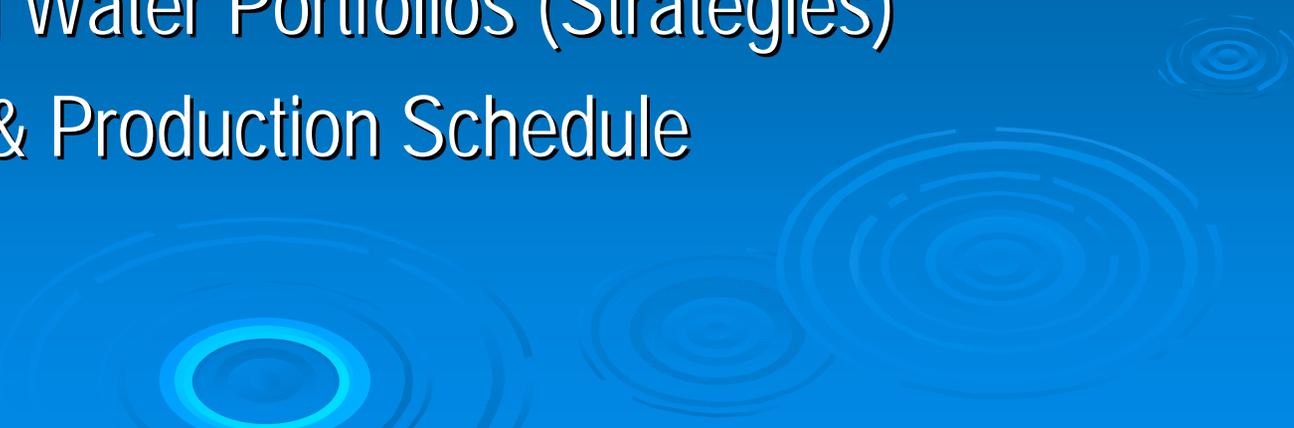


California Water Plan Update 2005

ABAG-CALFED Task Force
March 28, 2005

The background of the slide is a solid blue color. In the lower half, there are several decorative elements resembling water ripples or raindrops. These are concentric circles of varying sizes and opacities, some appearing as bright blue highlights and others as fainter, darker blue outlines. They are scattered across the bottom, with a larger, more prominent one on the right side and several smaller ones to its left and further down.

Topics for Today's Briefing

- Some Background
 - New Process & New Features
 - Strategic Plan (A Framework for Action)
 - California Water Today (State Water Balance)
 - Preparing for the Future (Scenarios)
 - Diversifying Water Portfolios (Strategies)
 - Work Plan & Production Schedule
- 

Some Background



The California Water Plan

- First published in 1957
- Updated seven times (Bulletin 160); last one in 1998
- Previous Updates identified a gap between supply and demand
- Californians “filled the gap” with large inter-regional projects
- Growing interest by Legislature and stakeholders in the update process and plan content

Key Purposes of Water Plan

- **Framework for California Water Policy**
- **Resource for Water Community**
 - Current supplies and water uses
 - Future scenarios and potential water demands
 - Information on management strategies for developing local plans and implementing solutions
- **Important Footnotes**
 - No mandates; No spending authorizations
 - Not project or site specific; No CEQA

New Process & New Features



New Process

- **Have open & transparent public process**
 - Website, meetings, interim products, etc.
- **Seek collaborative recommendations**
 - 65-person Advisory Committee & 350-person Extended Review Forum
- **Prepare a strategic plan**
 - Strategic planning guidelines

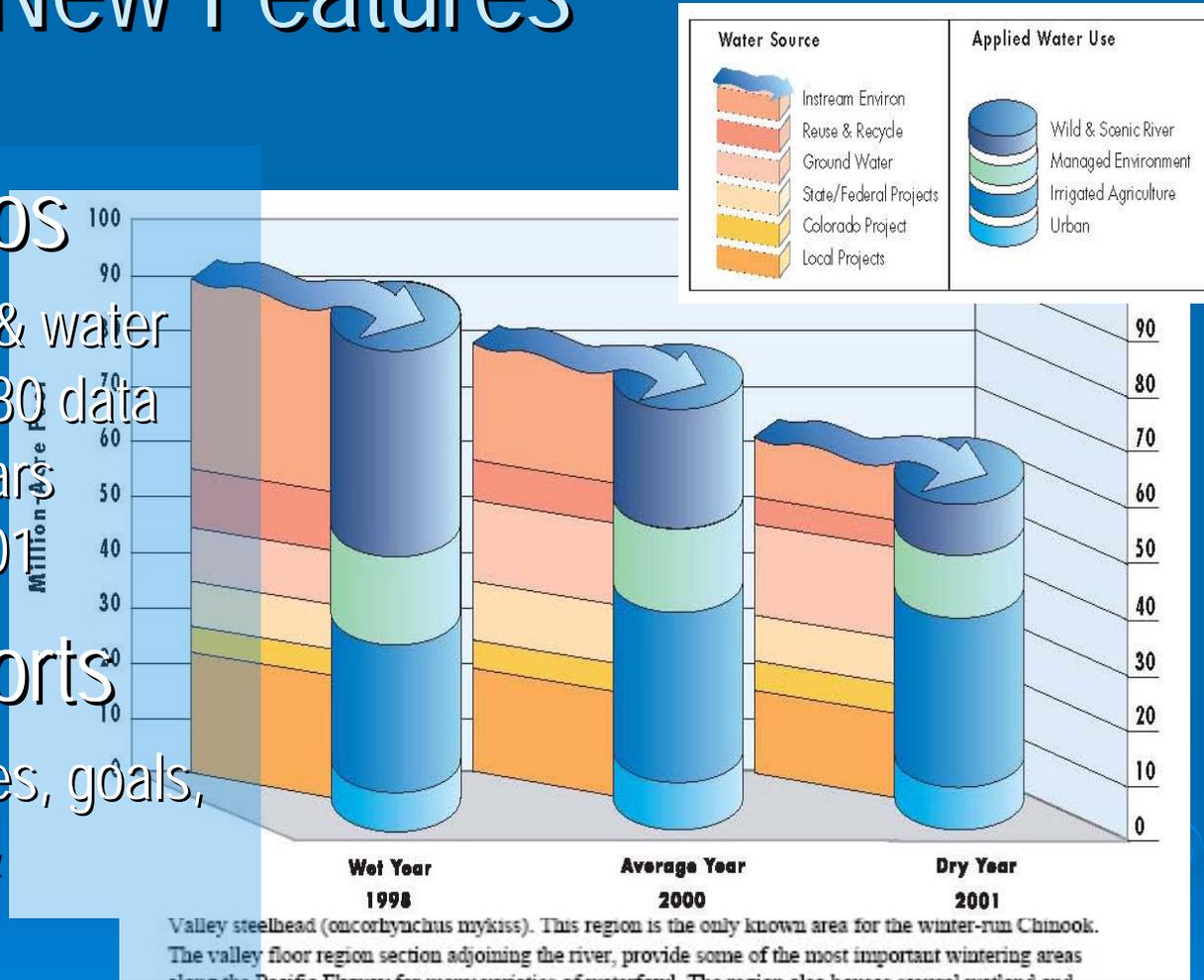
New Features

➤ 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



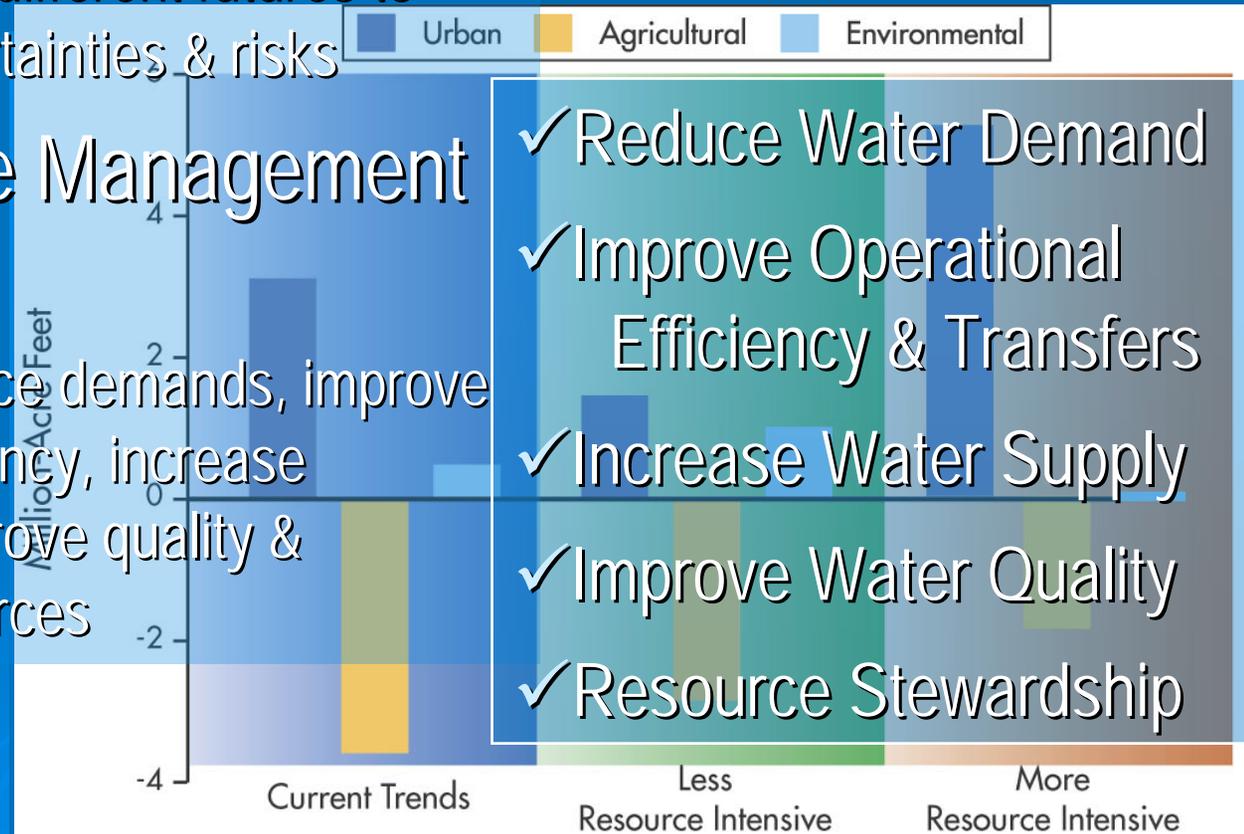
New Features (continued)

➤ 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



Water Plan Update Organization

- Water Plan Highlights (Brochure w/ CD-Rom)
- Vol. 1 > Strategic Plan
- Vol. 2 > 25 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide (50+ articles)
- Vol. 5 > Technical Guide (Online documentation)

Strategic Plan

A Framework for Action



Strategic Plan Overview

Vision

Mission

Goals

Recommendations

Implementation Plan



Water Plan Vision

California's water resource management preserves and enhances public health and the standard of living for Californians; strengthens economic growth, business vitality, and the agricultural industry; and restores and protects California's unique environmental diversity.



Water Plan Mission

To develop a strategic plan that guides State, local, and regional entities in planning, developing, and managing adequate, reliable, secure, affordable, and sustainable water of suitable quality for all beneficial uses.



Water Plan Goals

Intended Outcomes

- State government supports good water planning and management through leadership, oversight, and public funding.
- Regional efforts play a central role in California water planning and management.
- Water planning and urban development protect, preserve, and enhance environmental and agricultural resources.
- Natural resource and land use planners make informed water management decisions.
- Water decisions are equitable across all communities.



Recommendations

14 broad recommendations to provide State government leadership, assistance & oversight for improving regional water management, statewide water management systems, public funding, R & D, data inventory and analysis, and social equity.



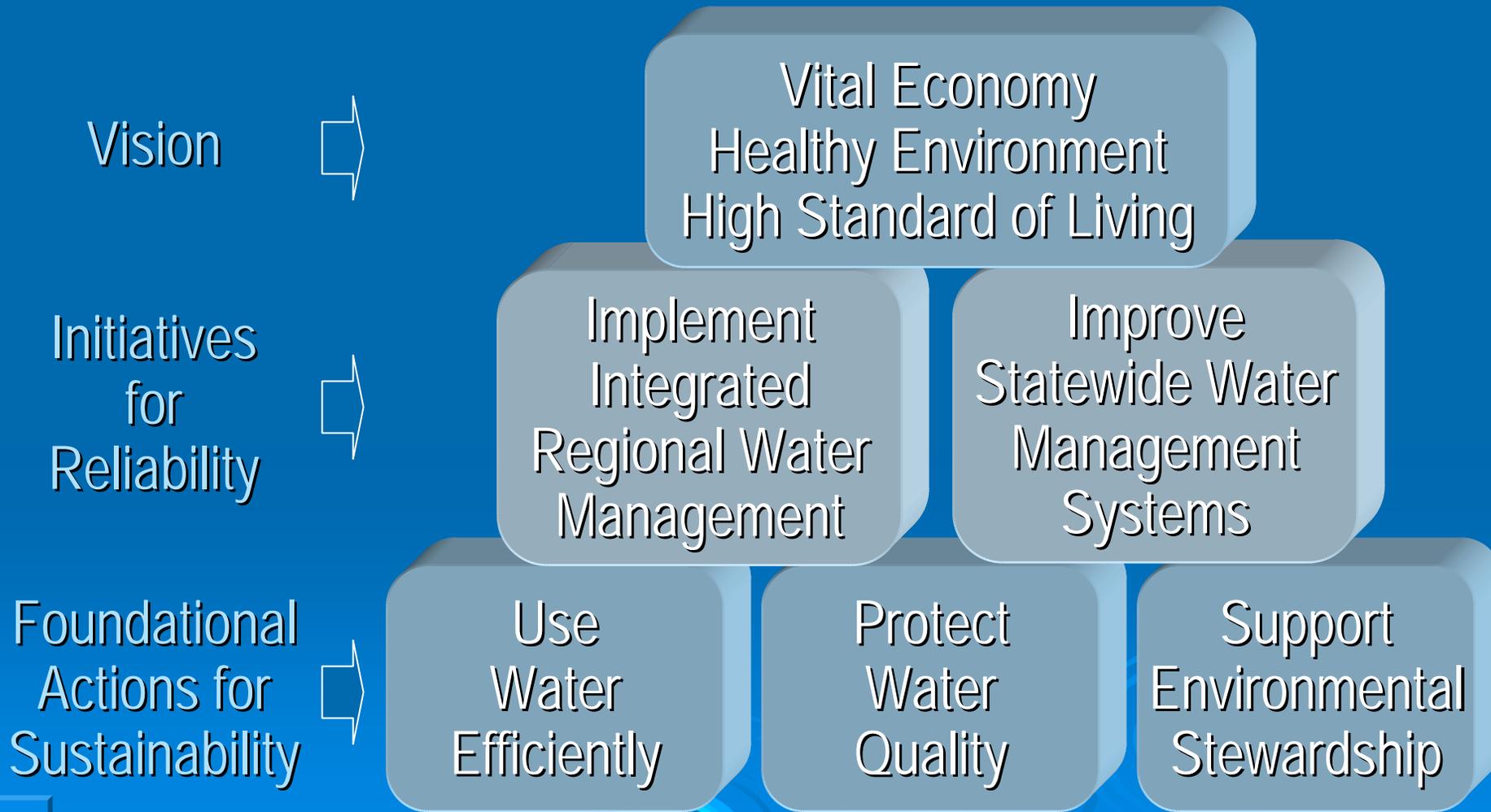
Implementation Plan

- Action Plan for each Recommendation
 - Near-term actions
 - Long-term comprehensive actions
- Intended Outcomes
- Resource Assumptions
- Implementation Challenges
- Performance Measures



Framework for Action

Sustainable & Reliable Water in 2030



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
- Protect public trust resources
- Integrate flood management with water supply management





Initiative 1 Implement Integrated Regional Water Management

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



Initiative 2 Improve Statewide Water Management Systems

- Maintain aging facilities
- Implement CALFED Program
- Improve flood management
- Sustain the Sacramento-San Joaquin Delta
- Implement non-structural options to improve system efficiencies, standards, incentives, education



Essential Support Activities

- Provide effective State leadership, oversight & assistance
 - Clarify State, federal and local roles & responsibilities
 - Develop funding strategies & clarify role of public investments
 - Increase tribal participation and access to funding
 - Ensure Environmental Justice across all communities
 - Adapt for global climate change impacts
 - Invest in new water technology
 - Improve water data management and analysis
 - Increase scientific understanding
- 

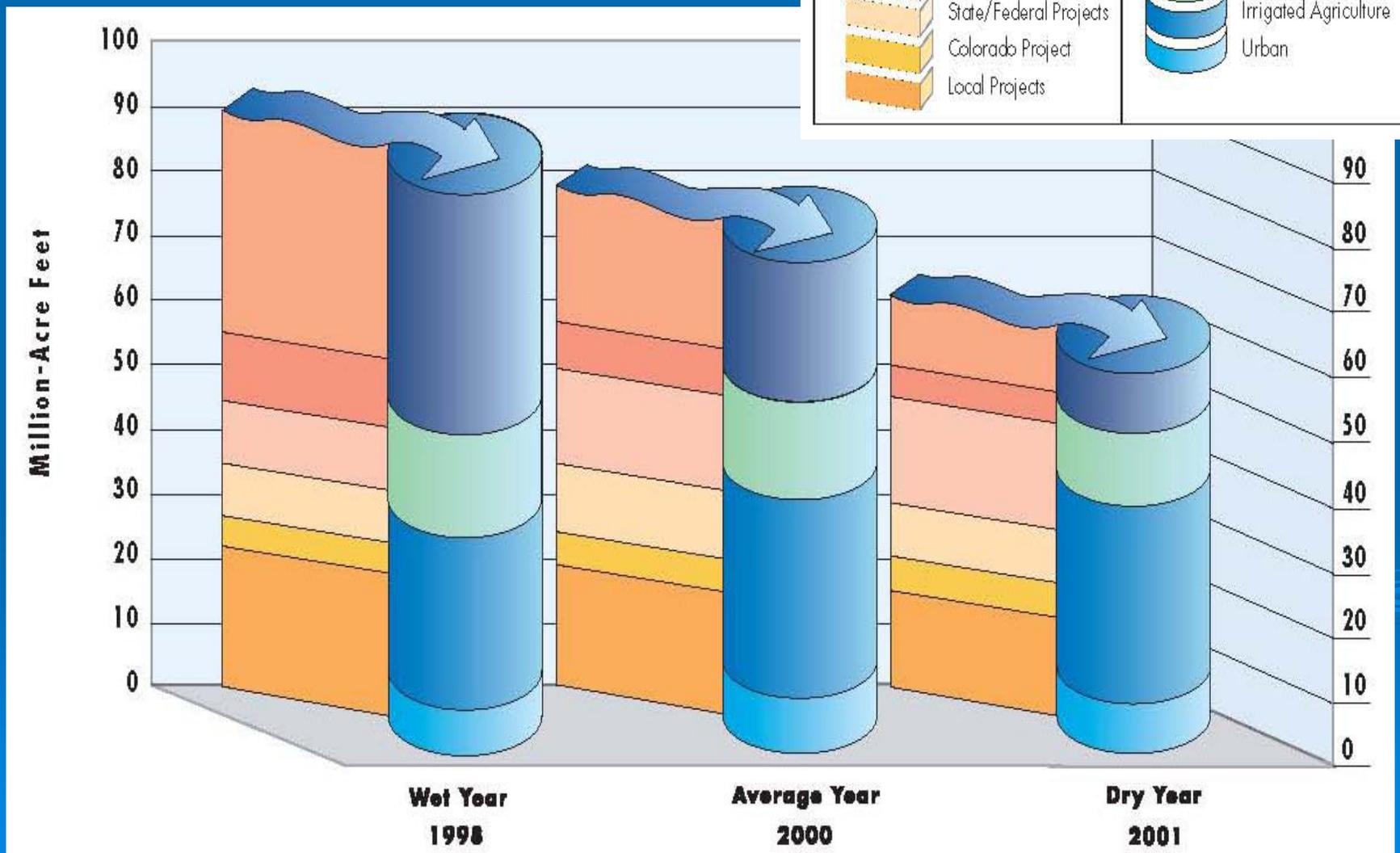
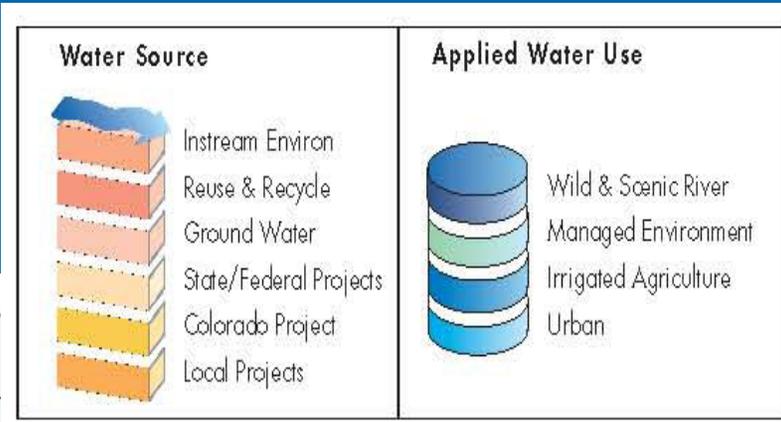
California Water Today



General Findings

- Statewide perspective -- California meets most water management objectives in most years.
- Local perspective -- Significant water supply and quality challenges persist.
- Except in multiyear droughts, most urban areas have sufficient supplies for existing populations.
- Most agricultural water demands are met in average water years, however, some growers forgo planting and other operations at times because they lack a firm water supply.
- Environmental requirements not always met, although considerable water is dedicated to restoring ecosystems.

California Water Balance for 1998, 2000 & 2001



Statewide Challenges

- Dry-Year Challenges
 - People Without Clean and Safe Drinking Water
 - Contamination of Surface Water and Groundwater
 - Groundwater Overdraft
 - Deferred Maintenance and Aging Facilities
 - Flood Management
 - Delta Vulnerabilities
 - Global Climate Change
 - Water and Energy
 - Tribal Water Rights
 - Environmental Justice
- 

Current Responses

➤ Regional Response

- Integrated Regional Water Management
- Coordination of Water and Land Use Planning

➤ Statewide and Interregional Response

- Programs and Planning
- Task Forces and Advisory Panels
- State Bulletins and Reports
- Water Bonds

➤ Federal Planning (Water 2025)

Preparing for the Future

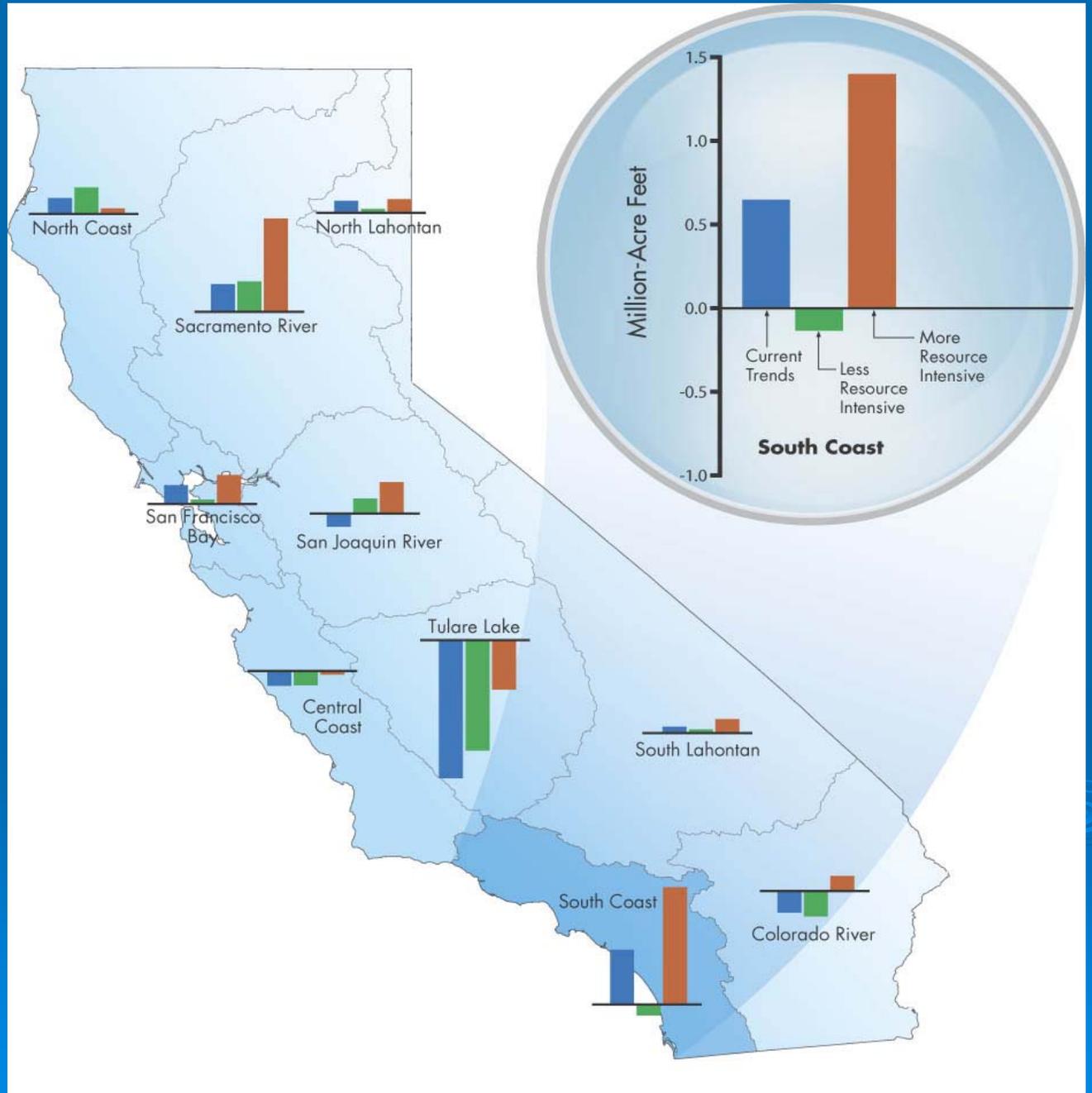


3 No-Action Scenarios for 2030

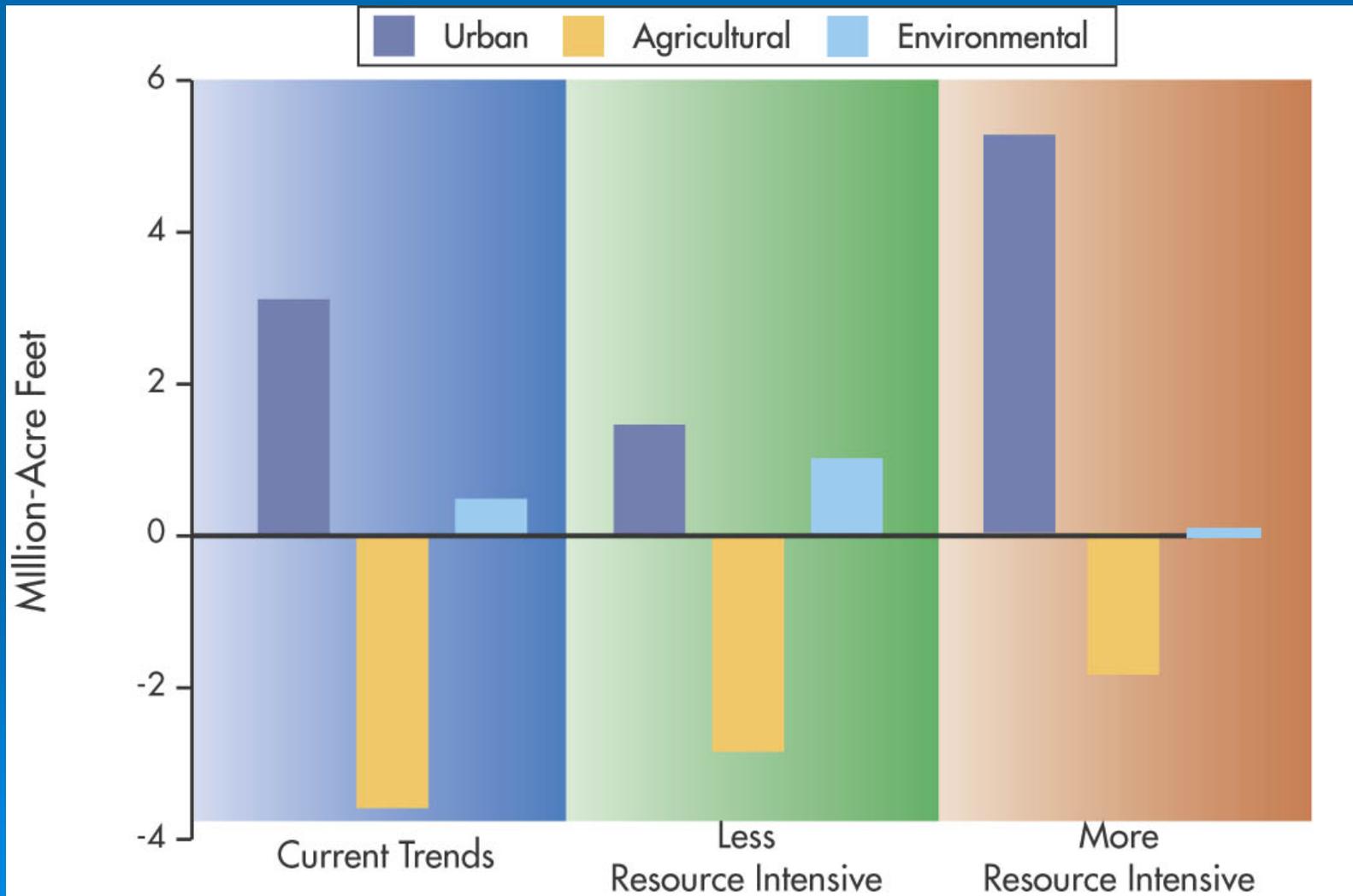
Plausible Yet Different Futures

- **Current Trends** Recent trends continue into the future
- **Less Resource Intensive** Higher agricultural and industrial production, more water dedicated for the environment, and more efficiency gained through background water conservation measures
- **More Resource Intensive** Higher population growth, higher agricultural and industrial production, environmental water at year 2000 levels, less efficiency gained through background water conservation

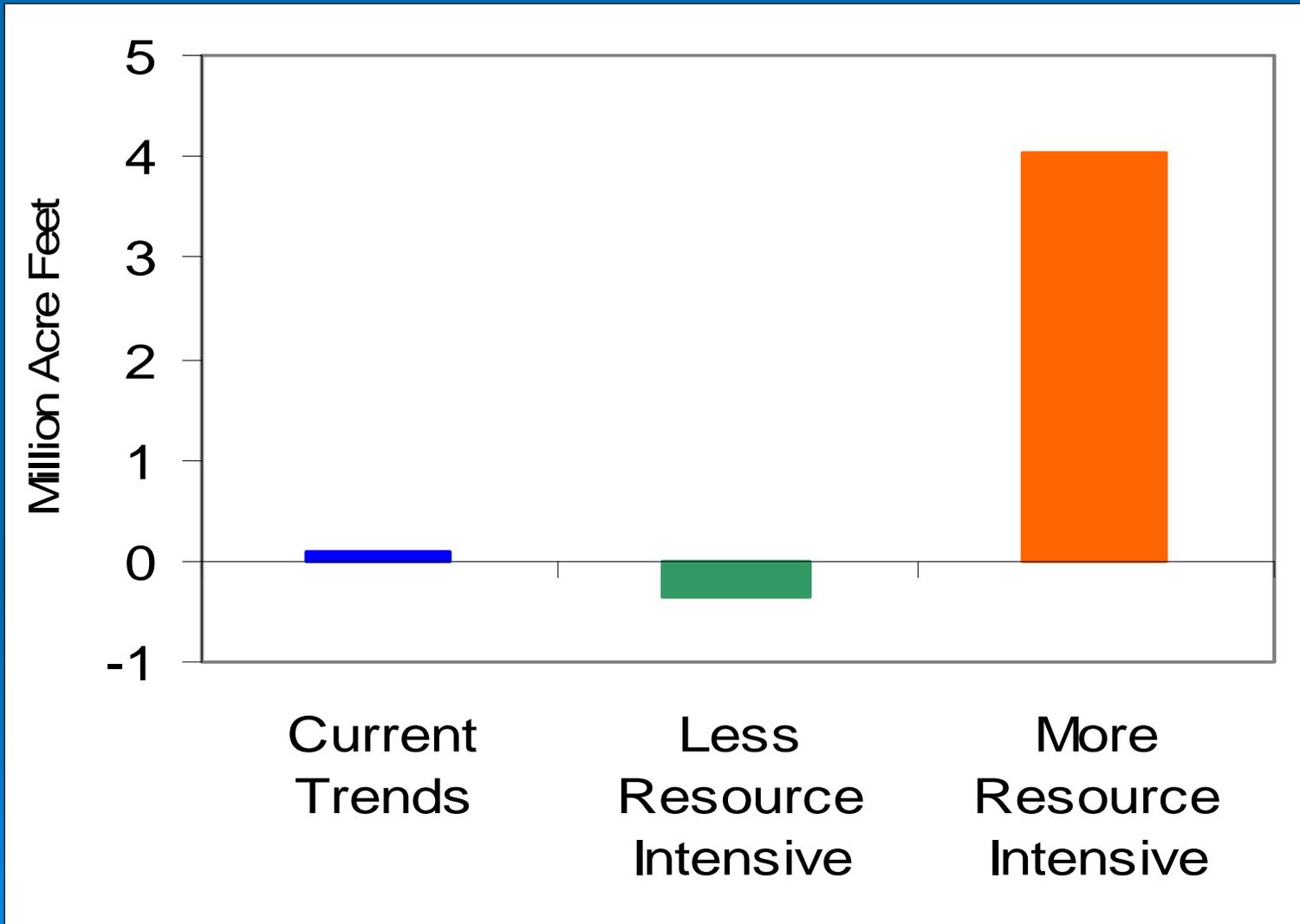
Scenario Demand Changes by Region



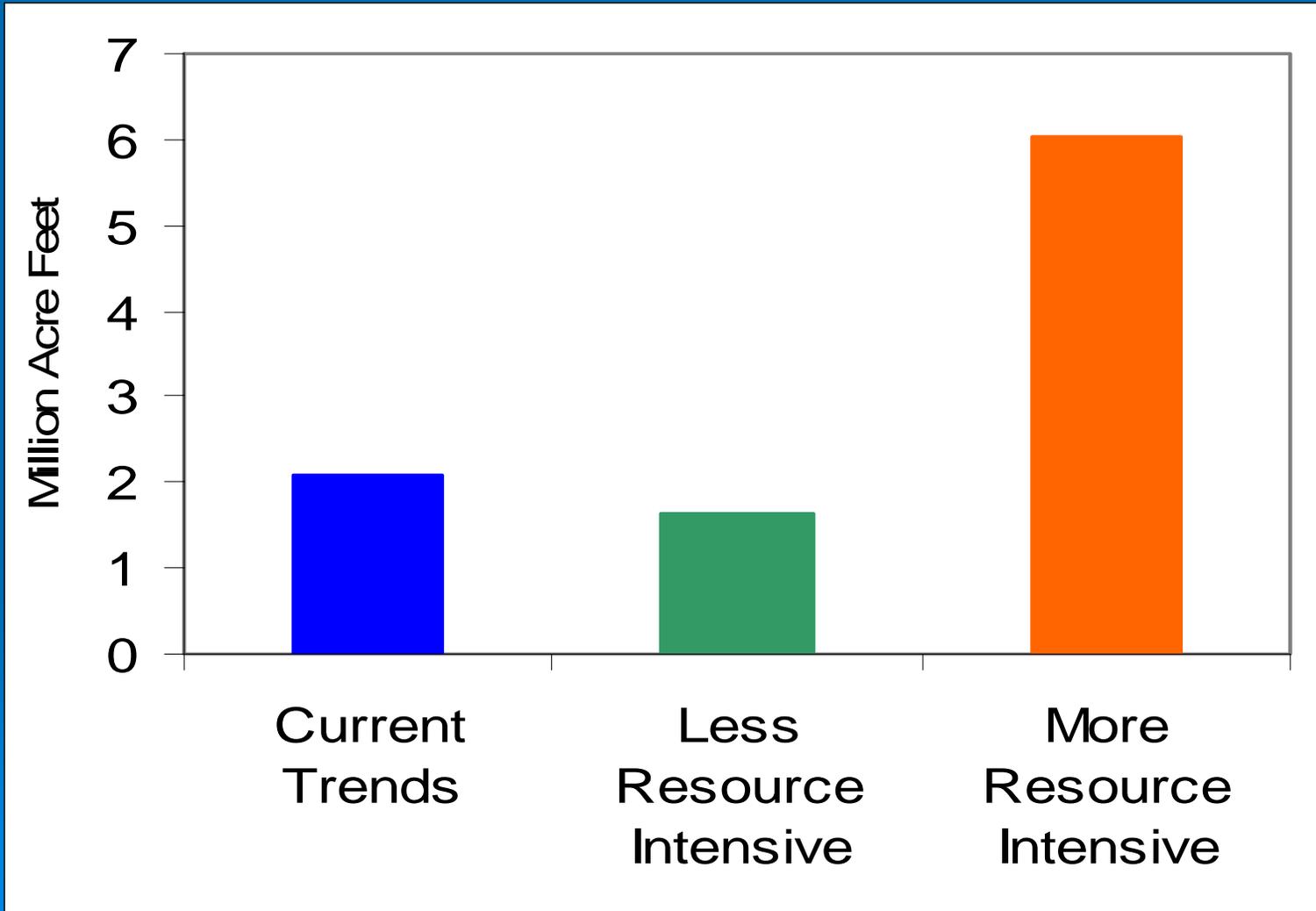
Scenario Demand Changes by Sector



Scenario Demand Changes Statewide



Scenario Demand Changes Statewide Plus 2 MAF for Groundwater Overdraft



Diversifying Water Portfolios



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

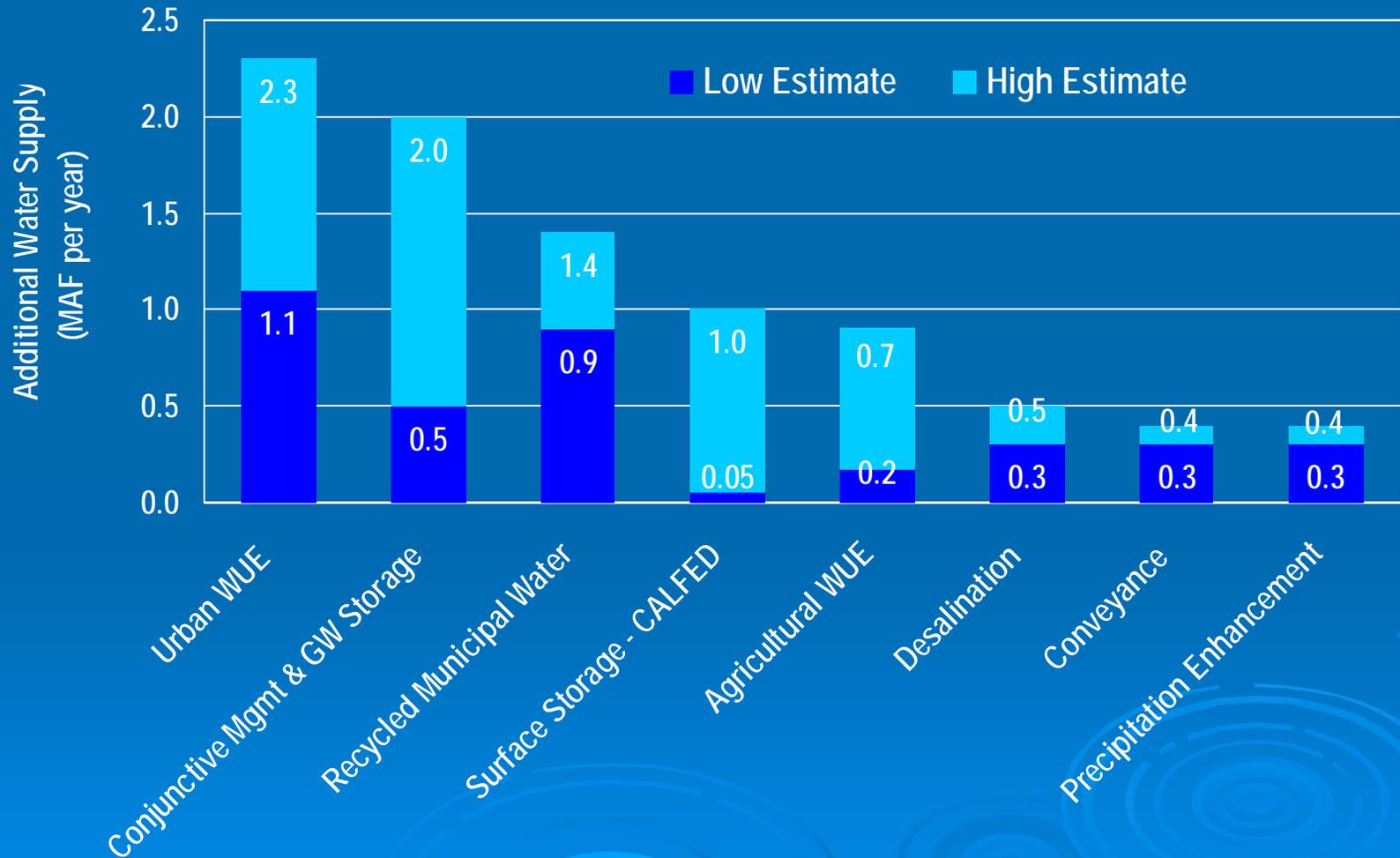
Improve Water Quality

- 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



Work Plan & Production Schedule



Phased Work Plan

➤ April 2005 – End of Phase 1

- Public Review Draft of Water Plan Update
- Narratives of four 2030 Future Scenarios
- Short & Long-term Work Plan for Data & Tools

➤ December 2005 – End of Phase 2

- Public Comment & Release Final Update
- Select methods to quantify 2030 Scenarios

➤ 2006 (Begin Phase 3 – Next Water Plan Update)

- Conduct Quantitative Studies for 2030 Scenarios

Phase 1 Production Schedule

- Administrative Draft - September 2004
- AC Preview Draft - Feb. – March 2005
- Public Review Draft - April 2005
- Public Hearings - June 2005
- Final Water Plan - Fall 2005

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