



CA Water Plan Update 2018

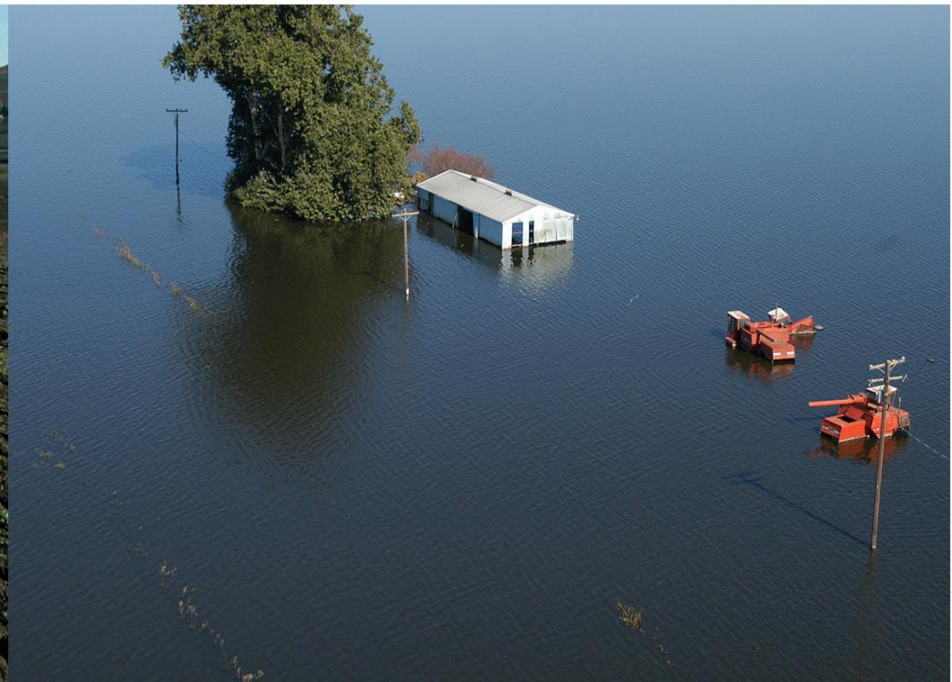
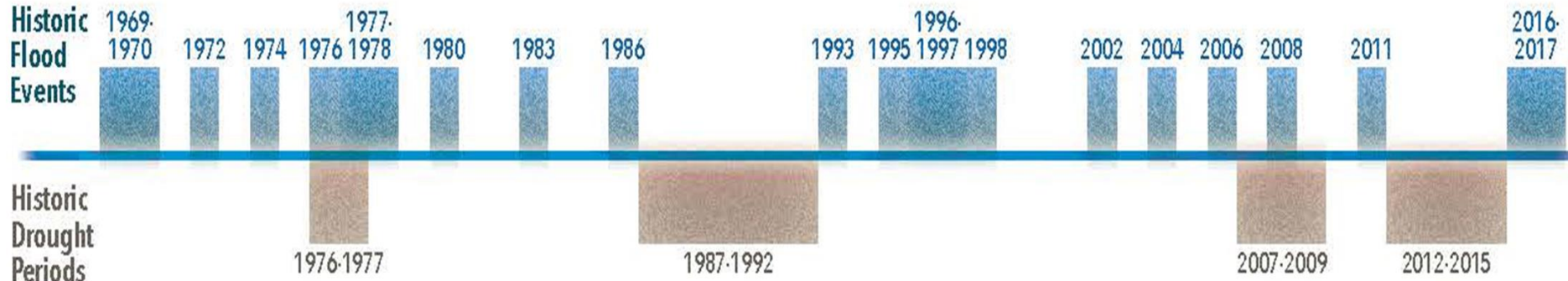
Managing Water Resources for Sustainability

Santa Ana River Watershed Conference
March 29, 2019



California Water Management

A Tale of Extremes



Challenges to Sustainability Threaten the People & Ecosystems of CA

- ❖ Greater Drought Impacts - Unreliable Water Supplies
- ❖ Increasing Flood Risk
- ❖ Groundwater Depletion & Subsidence
- ❖ Degraded Water Quality
- ❖ Declining Environmental Conditions
- ❖ Aging Infrastructure
- ❖ Climate Change Impacts

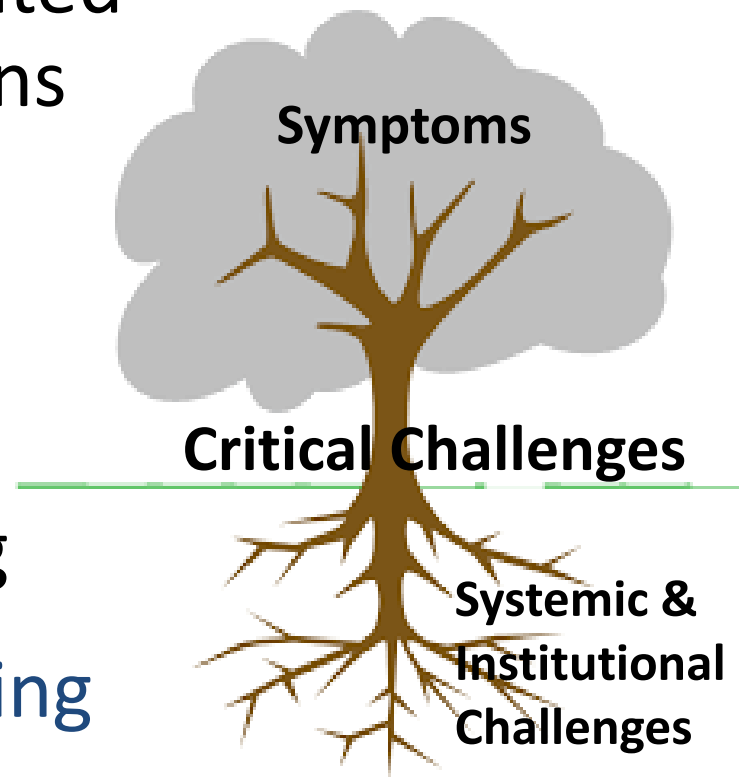


Low water level at Folsom Lake (January 2014)

Systemic & Institutional Challenges

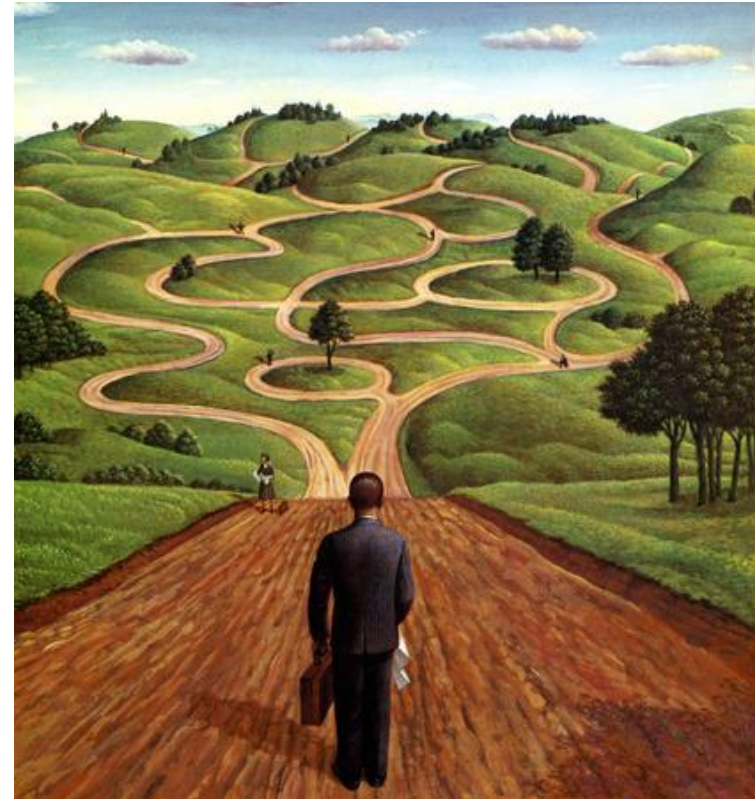
Overcoming them Increases Return on Investment

- ❖ Fragmented and uncoordinated decisions, initiatives & actions
- ❖ Inconsistent, inflexible, & conflicting regulations
- ❖ Insufficient capacity for data-driven decision-making
- ❖ Insufficient & unstable funding
- ❖ Inadequate performance tracking



Water Resources Sustainability Requires Several Ingredients

- ❖ Shared intent & outcomes
- ❖ Goals for the long view
- ❖ Alignment & integration
- ❖ Consistency with what Californians value
- ❖ Tracking & adaptive mgmt
- ❖ Time and commitment

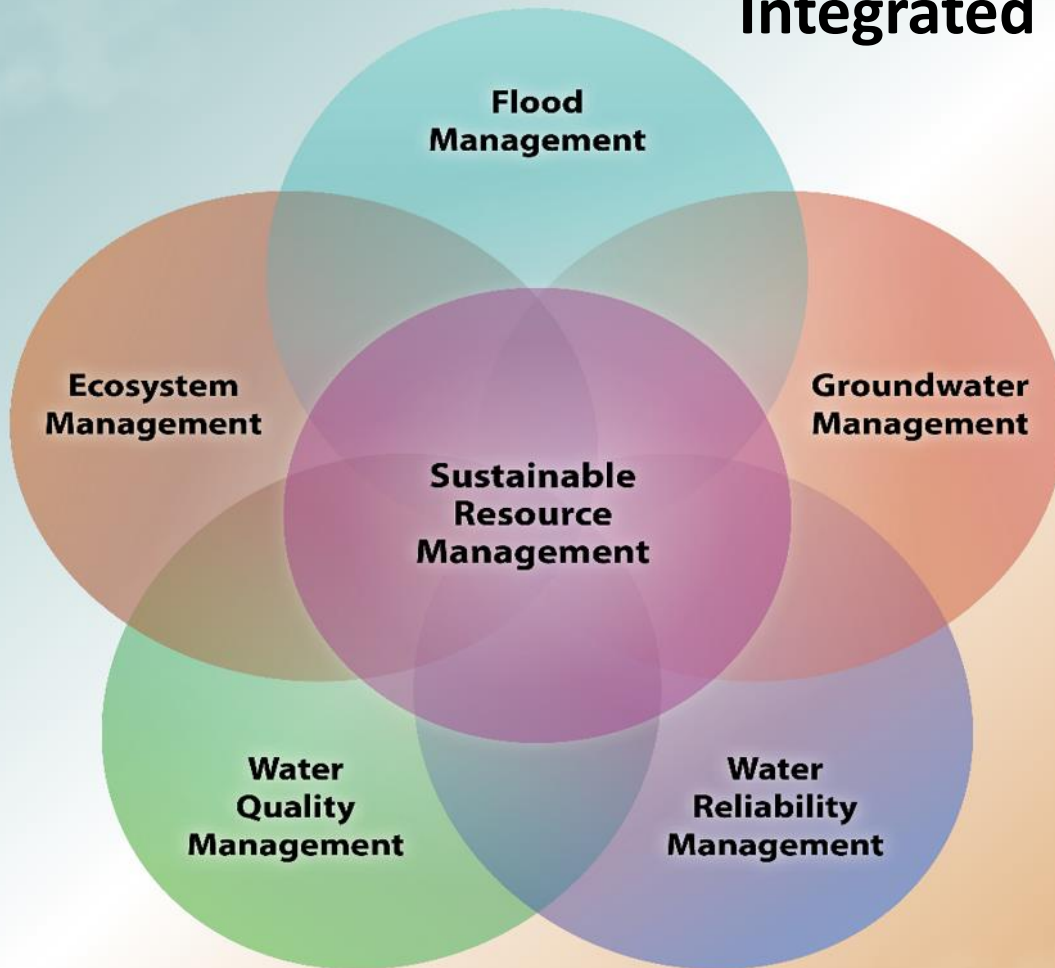


6 Sustainability Goals & 19 Rec'd Actions To Overcome Challenges

1. Improve Integrated Watershed Management
2. Strengthen Infrastructure Resiliency & Operational Flexibility
3. Restore Critical Ecosystem Functions
4. Empower Under-Represented & Vulnerable Communities
5. Improve Agency Alignment & Address Persistent Regulatory Challenges
6. Support Decision-making, Adaptive Management & Long-term Planning

Sustainability Requires Alignment & Integration

Integrated Watershed Management



Multi-Sector
Collaboration

Multi-Discipline
Planning

Multi-Benefit
Projects

Multi-Fund
Investments

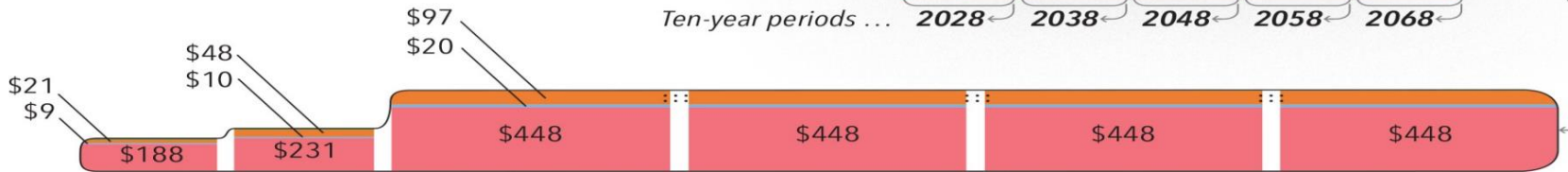
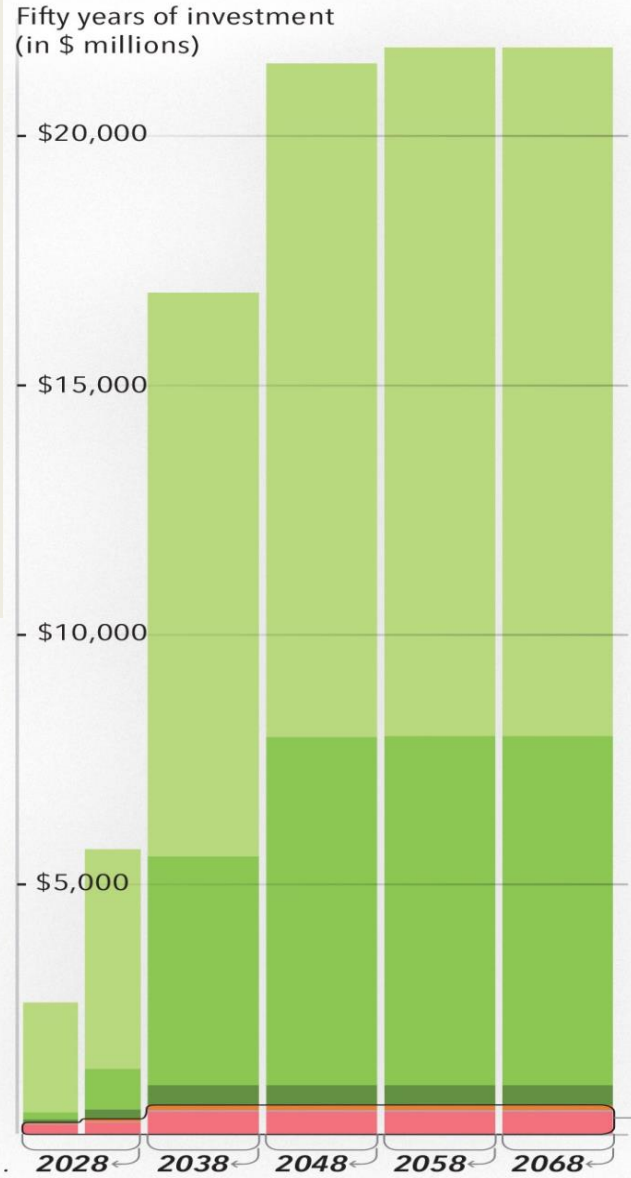
\$90.2 Billion State Water Investment Plan

- **\$77.8 Billion** – State Cost Share for Local/Regional Infrastructure & Ecosystem Projects (Capital/O&M)
- **\$9.7 Billion** – State Projects (Capital/O&M)
- **\$2.7 Billion** – Actions to overcome systemic & institutional challenges

- Strengthen Infrastructure (Capital/O&M)
- Restore Ecosystem Functions (Capital/O&M)
- Promote IWM Projects

The following investments are less than 3% of the investment (\$2.7 billion) needed to improve water infrastructure and restore ecosystems:

- Improve Agency Alignment, Planning & Regulatory Outcomes
- Empower Vulnerable Communities
- Informed and Adaptive Decision-Making



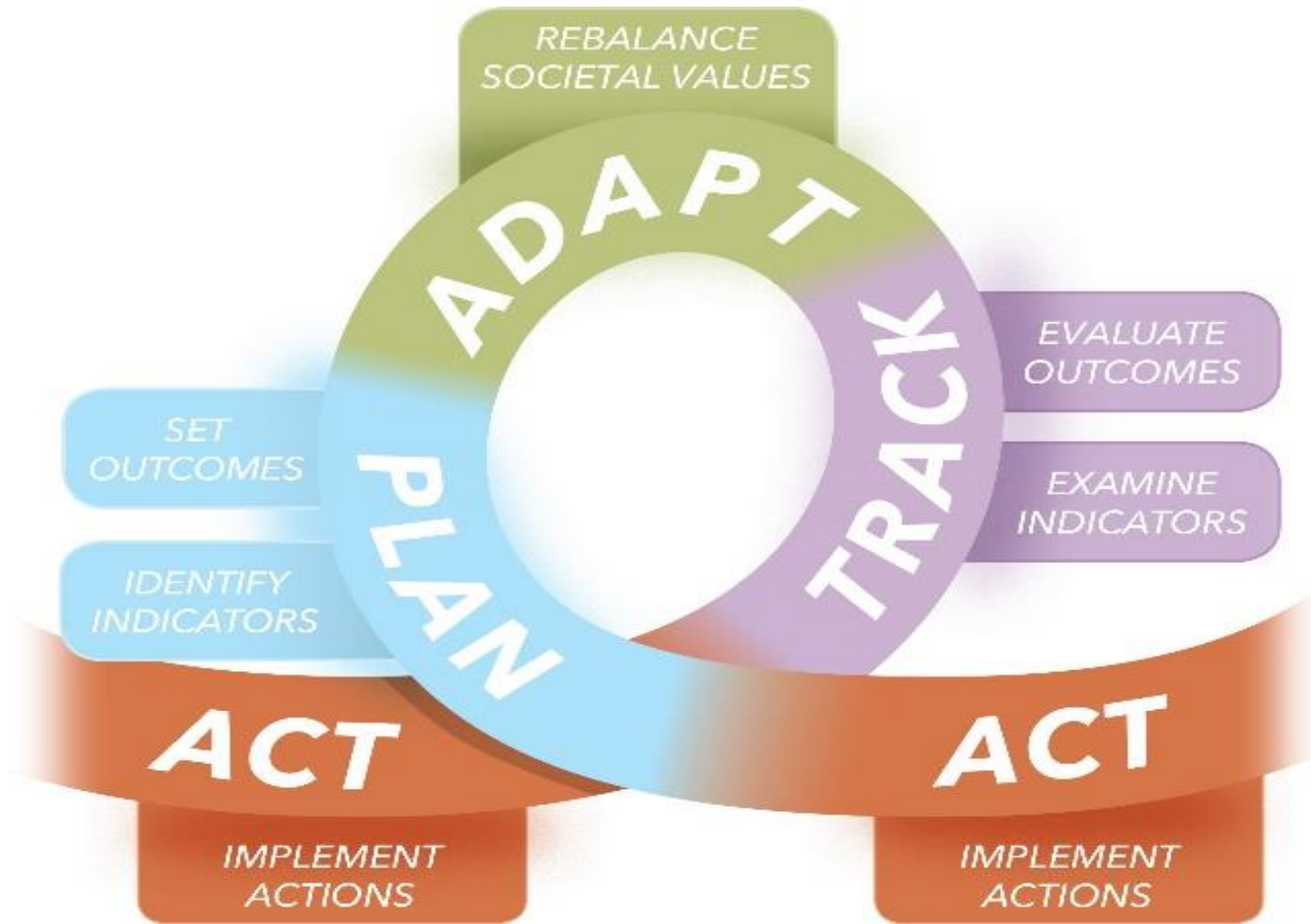
Sustainability Requires Consistency with Values



The combined effect of actions and projects within watersheds and groundwater basins is consistent with societal values, while fostering trust and promoting equity.



Sustainability Requires Tracking & Adaptive Management



The Sustainability Outlook

Demonstrate Return on Investment

Sample Value



**Public
Health &
Safety**

Sample Intended
Outcome

**An adequate water
supply for domestic
needs, sanitation, and
fire suppression**

Sample Sustainability
Indicator

**Number of public water
systems (population
served) not in compliance
with drinking water
standards**

4

1 dozen

3 dozen

Update 2018 Watershed-Scale Pilots Outlook is Aggregate of Regional Sustainability

❖ **Applying Sustainability Outlook locally**

- Proof of concept & scalability of indicators
- Local/regional perspectives on impediments to sustainability
- Place-based solutions for governance, regulations & funding

❖ **Initiated pilot projects in partnership with:**

- California Forward
- Pacific Institute
- Water Foundation
- Sonoma County Water Agency
- Santa Ana Watershed Project Authority

Update 2018 Watershed-Scale Pilots Engaging the Business Community

❖ Pacific Institute

- Explored motivations and challenges to engage the business community on water management
- Describes how *California Water Action Collaborative* members identify projects to improve water security.
- Recommends best practices to engage the business community, and to strengthen & align sustainable water management actions across sectors and stakeholder groups.

Update 2018 Watershed-Scale Pilots Toward Russian River Sustainability

❖ California Forward

- Applied the Sustainability Outlook tool at a watershed scale to evaluate how it can assist entities manage their watershed for sustainability.
- Provided a forum for stakeholders to communicate, collaborate, and chart a roadmap to align activities
- Key takeaways:
 - Vision and sustainability goals are hard to achieve without collaborative governance to coordinate entities and funding
 - Engaging all stakeholders, including Tribes, is needed to align interests and leverage resources
 - Need long-term commitment



Update 2018 Watershed-Scale Pilots

Assessing Watershed-Scale Decision Making

❖ **Santa Ana Watershed Project Authority**

- Evaluated application of Sustainability Outlook tool to SAWPA's One Watershed One Water (OWOW) Update 2018 assessment
- OWOW Update 2018 assessment informed selection of Sustainability Outlook's indicators and metrics
- Key takeaways:
 - State can support watershed sustainability assessments with training, funding, and data-support
 - Sustainability Outlook provides a foundation for watershed sustainability assessments
 - Ongoing regional assessments will help improve & adapt the Sustainability Outlook – and visa versa



Applying Update 2018 Tools The Way Forward

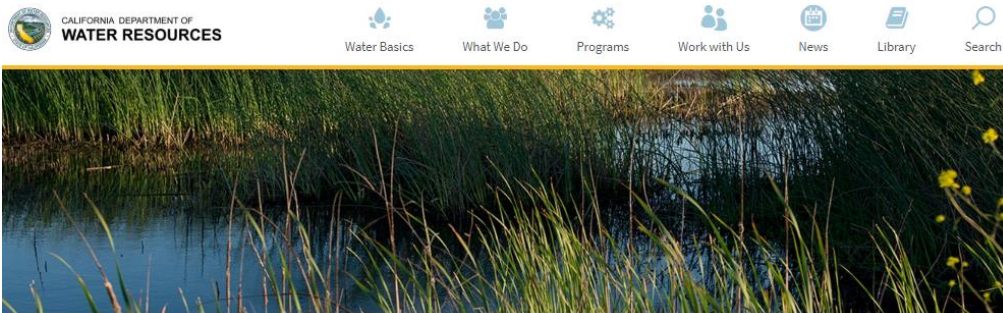


- ❖ ***Sustainability Goals*** – Shared intent & outcomes to align actions
- ❖ ***Recommended Actions*** – Reflect State priorities and values
- ❖ ***Sustainability Outlook*** – Track outcomes/return on investment
- ❖ ***Investment Strategy*** – Funding to initiate actions/projects
- ❖ ***Funding Scenarios*** – Adequate & stable funding for action



Ways to Access Water Plan Information

➤ Visit the Water Plan Web Portal



Home | Programs | California Water Plan

California Water Plan

The California Water Plan is the State's strategic plan for sustainably managing and developing water resources for current and future generations. Required by Water Code Section 10005(a), it presents the status and trends of California's water-dependent natural resources; water supplies; and agricultural, urban, and environmental water demands for a range of plausible future scenarios.

The plan:

- Is updated every 5 years
- Provides a way for various groups to collaborate on findings and recommendations and make informed decisions regarding California's water future
 - Elected officials
 - Government agencies
 - Tribes
 - Water and resource managers
 - Businesses
 - Academia
 - Stakeholders
 - General public
- Can't mandate actions or authorize spending for specific actions



The Carson River, named for Kit Carson, begins in the Sierra Nevada and flows through the Carson River Basin until it ends at the Carson Sink. DWR/2011

- ▶ California Water Plan
 - ▶ Water Plan Participation
 - ▶ Water Plan Updates
 - ▶ Water Portfolios
 - ▶ Water Resource Management Strategies

Contact Us

For any questions or comments about the Water Plan, please contact us.

[Email Us](#)

Upcoming Meetings

CALIFORNIA WATER PLAN eNEWS
Wednesday Update **Year-End 2015**

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comments, suggestions and any news tips that may be of interest to water planners.

California Water – A Tale of Extremes
 2015 was another reminder that California's climate and hydrology pose many challenges for water managers. The state has endured four years of drought – one of the worst in recent history – and now, the forecast of a strong El Niño, brings the possibility of serious flooding. Ongoing and future changes to the climate are driving rising sea levels, altered precipitation patterns, and reduced Sierra Nevada snow pack – California's largest surface water reservoir.

Managing Water – Working Together to Shape Our Future
 The water challenges facing our communities, watersheds, and economies compelled the State of California to embark on a comprehensive, multi-agency, and practical approach to water resources management. The process, outlined in the Governor's [Water Action Plan](#), encourages implementation of integrated, multi-benefit programs and projects.

Governor's Water Action Plan
 •Ensure reliable water supplies for all Californians.
 •Build capacity for regional sustainability.
 •Manage floodwaters while protecting ecosystems.
 •Take action to reduce residual risk.
 •Set planning priorities and investments for a sustainable future.
 •Protect our communities through State, federal, tribal, and local cooperation and commitment.

Since 2014, the action plan has focused State water leaders on common goals and actions, and it has leveraged general obligation bond revenues with existing agency budgets and other funding sources. But, full implementation of the plan, and related actions to improve water sustainability, will require investments above the current baseline budgets of State, federal, tribal, and local governments. Multiple, and more stable, funding sources will be needed to improve flood protection, provide reliable and clean water supplies, restore and enhance ecosystems, and provide for enriching experiences – that is, to achieve sustainable water management. Details are available in DWR's partnership paper, [Managing California Water Through Federal, State, and Local Cooperation](#).

Ever-greening California Water Plan for Update 2018
 To be relevant, California Water Plan Update 2018 needs to report on Water Action Plan implementation and its related State initiatives such as the Sustainable Groundwater Management Act, State drought response, Proposition 1 Water Bond, future IRWM strategies, and flood investment strategy. In addition to being State government's long-term strategic water plan, Update 2018 needs to – for the first time – identify specific outcomes and metrics to track performance, prioritize near-term State actions and investments, recommend financing methods having more stable revenues, and inform water deliberations and decisions as they unfold.

In 2016, DWR will engage State, federal, tribal and local agencies and stakeholders in the development of the plan. Opportunities to get involved will be announced in the [California Water Plan eNews](#).

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Questions & Comments



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Statewide Integrated Water Management
CA Department Water Resources