

The Almond Conference

Water: Policy and Politics

Richard Waycott, ABC (Moderator)

Lester Snow, California Water Foundation

Dorene D'Adamo, State Water Resources Control Board

David Orth, Kings River Conservation District

Barry Bedwell, California Fresh Fruit Assoc.





Lester Snow California Water Foundation





Sustainable Groundwater Management Act Almond Board of California• December 10, 2014



An initiative of Resources Legacy Fund

2014: Year of Water



Historic Drought



Governor's Water Action Plan



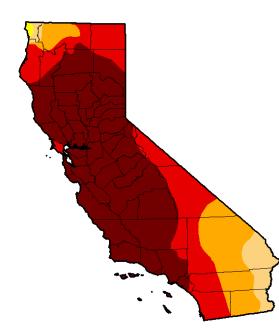
Historic Groundwater Legislation



Passage of Proposition 1

Current Drought Conditions

U.S. Drought Monitor California



November 25, 2014 (Released Wednesday, Nov. 26, 2014) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.72	94.42	79.69	55.08
Last Week 11/18/2014	0.00	100.00	99.72	94.42	79.69	55.08
3 Month s Ago 826/2014	0.00	100.00	100.00	95.42	81.92	58.41
Start of Calend ar Year 1231/2013	2.61	97.39	94.25	87.53	27.59	0.00
Start of Water Year 930/2014	0.00	100.00	100.00	95.04	81.92	58.41
One Year Ago 11/26/2013	2.61	97.39	94.15	82.53	27.59	0.00

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

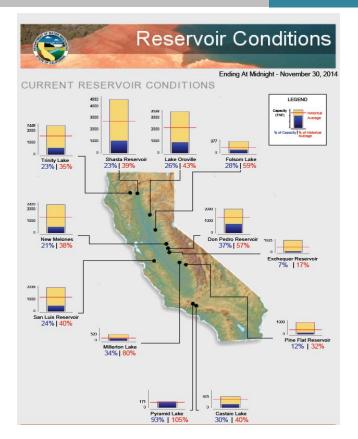
Author:

Eric Luebehusen U.S. Department of Agriculture



http://droughtmonitor.unl.edu/

Storage Conditions



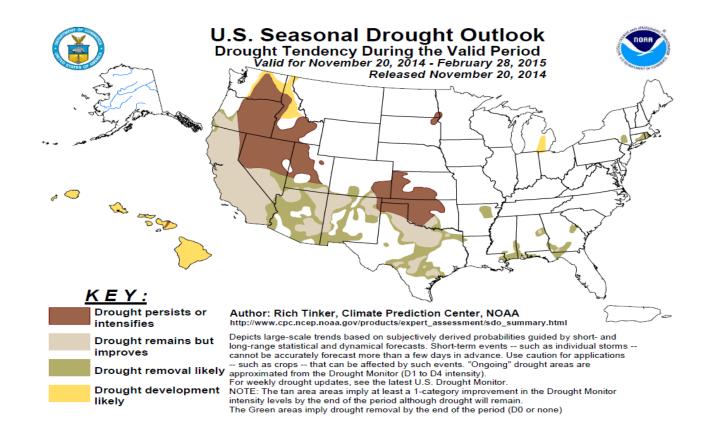
Lake Oroville April 5, 2014



Lake Oroville November 8, 2014



Drought Forecast



Groundwater in Context

- 40% of supply in an average year; 60% in dry
- Critical part of integrated management
- Flexible source for storage and use







Groundwater in Context

Several decades of increasing use

- Reduction in surface supplies
- Hardening of demand
- Increasing landowner conflicts



Problems With Overdraft

- Subsidence threatens infrastructure
- Reduced water for species
- Reduced surface supplies
- Increased drilling/pumping costs
- Increased costs for taxpayers, business, farmers



Sustainable Groundwater Management Act (SGMA)

- Fundamental change in groundwater management
- Sustainability Goal (20 years with 5 year milestones)
- Local Empowerment
 - Local authorities to manage groundwater
 - Local agency formation (Groundwater Sustainability Agencies, GSAs)
 - Local plans (Groundwater Sustainability Plans, GSPs)
 - "Exempts" adjudicated basins
- State Role
 - Assistance (financial and technical)
 - Plan Review
 - Back-Stop

Time Frame for Success

Time	Action
6/30/2017	Formation of GSAs
1/31/2020	Completion of GSPs in critically overdrafted basins
1/31/2022	Completion of GSPs in all other basins
20-year implementation period	Implementation of GSPs under local management

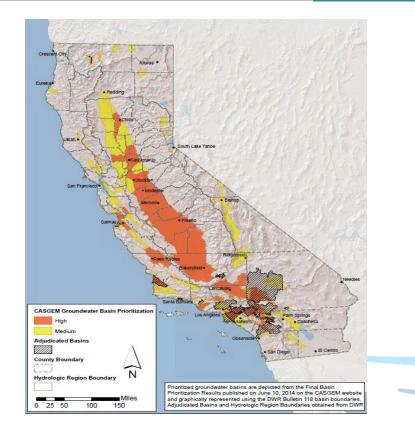
Taking these actions shields local managers from state intervention

The "Backstop" State Board Interventior

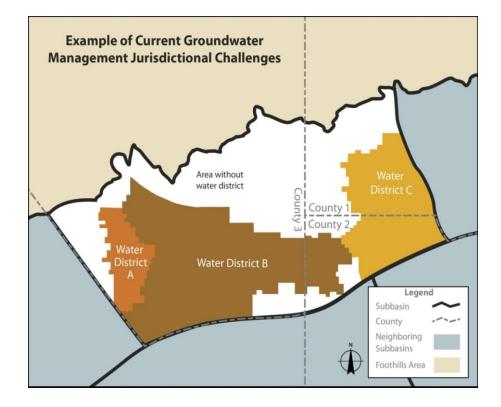
After	Cause of Intervention
6/30/2017	No GSAs
1/31/2020	In critically overdarfted basins, no GSA or GSP is inadequate
1/31/2022	In other basins, no GSA or GSP inadequate and basin in long-term overdraft
1/31/2025	GSP is inadequate and significant depletions of interconnected surface waters

In all triggering events, interventions is the result of a failure by the locals to create a GSA and adopt and implement a GSP.

CASGEM Groundwater Basin Prioritization



Jurisdiction Formation

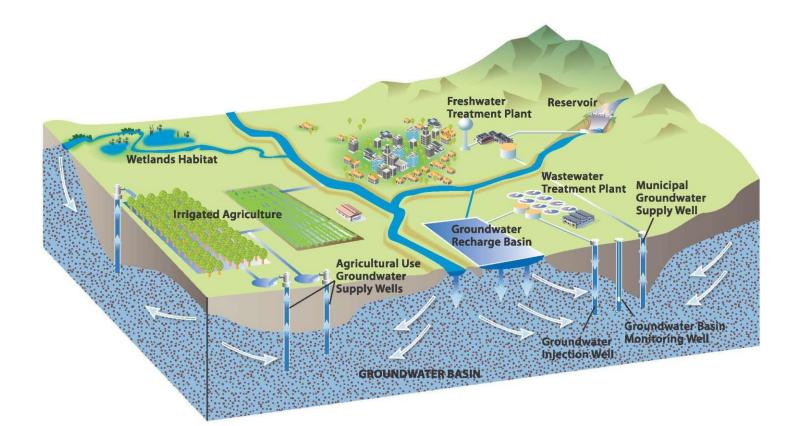


2015 Issues and Opportunities

- Drought Conditions
- SGMA Implementation
- Bond Implementation
- Bay Delta Conservation Plan (BDCP)



Integrated Water Management



Dorene D'Adamo State Water Resources Control Board



Beyond Drought: California Water Action Plan & Sustainable Groundwater Management

> The Almond Conference December 10, 2014 Sacramento Convention Center

DeeDee D'Adamo, Board Member State Water Resources Control Board <u>www.waterboards.ca.gov</u>



State Water Resources Control Board

Big Year for California Water

- Administration Outlines California Water Action Plan
- Prop 1- Water Bond
- Groundwater Legislation Passed and Signed by the Governor

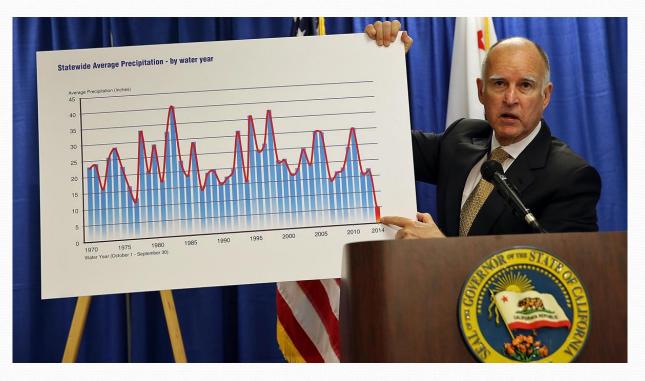


Extended 3 Year Drought





Emergency Response



The Sustainable Groundwater Management Act of 2014

- Requires sustainable groundwater management
- Promotes local control

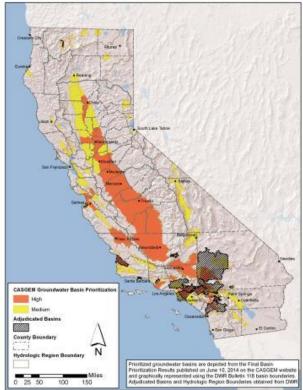


Key Principles:

- Groundwater best managed at the local/regional level
- Groundwater needs to be managed sustainably
- Local agencies should have necessary authority & tools
- State assistance and oversight intervention only when needed

The Sustainable Groundwater Management Act of 2014

- Requires Groundwater Sustainability Plans in highand medium-priority basins
- Authorizes management tools for local agencies
- Creates state "backstop"
- Defines time frame for accomplishing goals



New Local Management Tools

- Requires creation of "Groundwater Sustainability Agencies"
- Empowers GSAs to:
 Register groundwater wells
 Measure extractions
 Require reports
 Manage extractions
 Assess fees
- Exempts preparation of local groundwater sustainability plans from CEQA
- Establishes "sustainability goal" over time to guide management





Time Frame for Success

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These actions shield local managers from state intervention

"Backstop" - State Board Intervention

After	Cause of Intervention
June 30, 2017	No GSA
Jan. 31, 2020	In critically overdrafted basins, no GSP or GSP is inadequate
Jan. 31, 2022	In other basins, no GSP or GSP is inadequate and basin is in long-term overdraft
Jan. 31, 2025	GSP is inadequate and significant depletions of interconnected surface waters

In all triggering events, intervention is the result of a failure by the locals to create a GSA and adopt and implement a GSP.

Undesirable Results:

- Chronic lowering of groundwater levels (not including overdraft during a drought, if a basin is otherwise managed); **AND**
- Significant and unreasonable:
 - reductions in groundwater storage
 - seawater intrusion
 - degradation of water quality
 - land subsidence
 - surface water depletions adversely impacting beneficial uses

PREPARING FOR THE FUTURE



Increase Regional Self-Reliance & Integrated Water Management



Expand Water Storage Capacity & Improve Groundwater Management



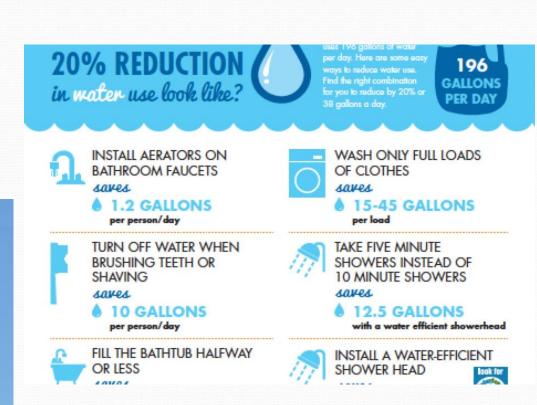


FIGURE 8: OCWD GROUNDWATER RECHARGE SITE (SOURCE: OCWD)

Thank you







David Orth Kings River Conservation District



Sustainable Groundwater and Surface Storage

David Orth, Kings River Conservation District





Groundwater Legislation – Key Objectives

- Local Management
- Groundwater Sustainability Plans
- Land Use Coordination
- Link Groundwater Sustainability to Surface Water Enhancement
- State Technical Support
- State Oversight/Intervention
- •Respect Surface Water and Private Property Rights



Groundwater Legislation - Issues and Challenges

- Lack of a Common Understanding
- Engage Stakeholders in Organization and Planning
- Align Basin Boundaries with "Reality"
 - -Impact of neighboring Basin activity
- DWR Rulemaking to clarify terms, processes, etc.
- Groundwater Sustainability Agency Creation
 - -Role of water agencies
 - -Role of counties
- Groundwater Sustainability Plan Development
 - -Data collection
- Reasonable Timelines???
- Litigation Threat???



Next Steps

- Local Outreach and Communication
 - -Clear understanding of the Act
 - -GSA formation 6/30/17
 - -GSP development 1/31/2020 (and later)
 - -GSP implementation Sustainability within 20 years
- Rulemaking and Regulations
- 2015 Legislation ??
 - -Technical cleanup
 - -Expedited adjudication



California Surface Storage

- Surface reservoir storage capacity 42 million acre feet
 - –Federal has 11 million acre feet of storage capacity (Central Valley Project) – delivers about 7 MAF/year
 - -State has 5.8 million acre feet of storage capacity (State Water Project) delivers about 2.3 MAF/year
 - -Local (i.e. Pine Flat, Terminus, Success, Isabella)
- Average annual runoff approximately 71 million acre feet (DWR 1998)



Future Storage

- State and Federal Projects (collectively add about 4.5 MAF to total storage capacity)
 - -Shasta Dam and Reservoir Enlargement
 - -Sites Reservoir (North-of-the-Delta Offstream storage)
 - -Los Vaqueros Reservoir Expansion
 - -Temperance Flat Reservoir (upper San Joaquin River Basin),
- Regional surface and groundwater storage projects
- More than 27 million acre feet of new surface and groundwater storage projects are being considered statewide
- How much can we afford to capture?



California Groundwater Facts

- 431 groundwater basins delineated
 - –24 basins subdivided into 108 subbasins giving a total of 515 distinct groundwater systems
- 850 million to 1.3 billion acre feet of groundwater storage (DWR 1994) –Approximately 149 to 450 million acre feet is estimated to be useable
- About 250 million acre feet of groundwater storage capacity is available statewide
 - -170 million acre feet of that 250 is in the Central Valley
- Annual groundwater extractions average about 16.5 million acre feet
 - –39% of state's total water supply
- Overdraft between 1 and 2 million acre feet annually (DWR 2003)



Groundwater Storage - Maximize Recharge

- More surface storage to control peak flows
- More dedicated recharge basins
- Expand Conveyance Capacity
- On-farm flood water utilization



Barry Bedwell, California Fresh Fruit Association





Water: Policy and Politics Wednesday, December 10, 2014

Sacramento Convention Center Barry Bedwell, President California Fresh Fruit Association

THE ALMOND CONFERENCE







Background of the Association

- Origins dating back to 1921; Growers & Shippers Protective League and Table Grape Growers & Shippers Association
- Voluntary, non-profit representing about 85%, by volume, fresh permanent crops with the exception of avocados and citrus
- Membership ranges from Coachella Valley to Lake County
- Primary public policy advocate in Sacramento & DC
- Different from mandatory commissions
- Changed name to California Fresh Fruit Association in Aug 2014 formally California Grape and Tree Fruit League





The Lack of Water and What Has Changed Since Landmark Drought of 1977

- In 1977 there were 22 Million Californians, today 38 Million [+16,000,000 an increase of 72%]
- In 1977 our per capita income was \$8,500, today \$42,500 [+\$34,000 an increase of 400%]
- In 1977 gross farm revenue was \$9.6 Billion, today \$45 Billion [+\$35,400,000,000 an increase of 368%]
- Since 1977 a multitude of government regulatory and policy decisions have placed a raft of "priority environmental uses" ahead of historic human needs and have reduced the average water supply for CVP South of Delta Ag Service Contractors from 90% reliability to 40% reliability.





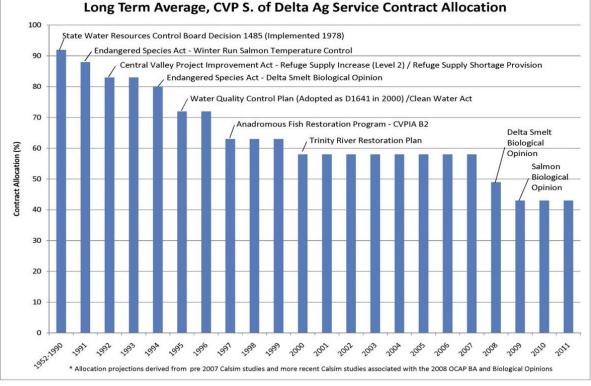
Environmental Edicts Impacting Water Supply

- 1978 State Water Resources Control Board Dec 1485
- 1991 ESA Winter Run Salmon Temperature Control
- 1992 Central Valley Project Improvement Act
- 1994 ESA Delta Smelt Biological Opinion
- 1995 Water Quality Control Plan re Clean Water Act
- 1997 Anadromous Fish Restoration Plan
- 2000 Trinity River Restoration Plan
- 2008 Delta Smelt Biological Opinion v2
- 2009 Salmon Biological Opinion

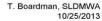




How 50% of the Available Water Goes to Environmental Purposes









Chronology of Federal Legislation

- February 5, 2014 House passes HR 3964 Sacramento-San Joaquin Valley Emergency Water Delivery Act authored by Congressman Valadao (CA 21)
- May 22, 2014 Senate passes S 2198 Emergency Drought Relief Act authored by Senator Feinstein
- November post election negotiations to reconcile bills make impressive progress
- Environmentalists and their elected representatives say that Senator Feinstein crafting "secret water deal"; editorials follow





Chronology of Federal Legislation

- November 20, 2014 Senator Feinstein announces that "we will be unable to present an agreed-upon proposal before Congress adjourns this year"; says that she will introduce bill in January under regular order
- On Tuesday, December 2, 2014, Congressman Valadao (CA-21), with the support of Congressman Costa (CA-16) and California House Republicans, introduce water legislation in the U.S. House of Representatives aimed at providing short- term relief





Take Away Messages

- The prospect for meaningful relief via Federal legislation has been materially diminished
- On the positive side, the key relationship between Senator Feinstein and Congressman Nunes is improving
- Representatives Valadao, Denham, Costa and McCarthy continue to provide critical support for the issue
- The chances to "change" or "amend" the ESA are slim; "update" may be a more appropriate term
- State regulation through the Sustainable Groundwater Management Act is a key challenge to the future
- The conjunctive use of water must be fully understood and promoted by production
 agriculture
- The almond community should understand the target on their back and be prepared to
 respond in a positive manner

Thank You for Your Time and Attention





The Almond Conference