

Agenda Topics

- The Delta
- Groundwater Issues
- IRWM
- Drought/El Nino (Climate Change)
- Major Water Supply Reliability Obstacles





California Water Systems



- Fueled California economy
- All had unintended consequences
- All are less reliable today

Water Management Challenges

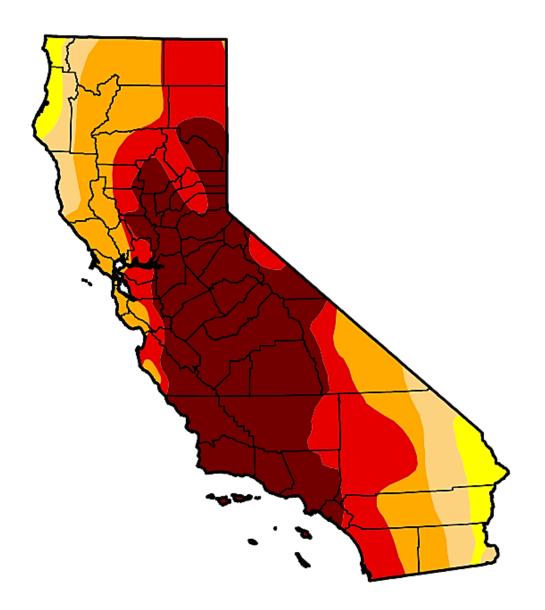
- Aging Infrastructure
- Increasing Population
- Degraded Ecosystems
- Groundwater Overdraft
- Management Fragmentation
- Climate Change (increase in extremes)





U.S. Drought Monitor

California



January 26, 2016

(Released Thursday, Jan. 28, 2016)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	95.35	86.13	63.96	40.21
Last Week 1/19/2016	0.00	100.00	97.17	86.13	68.15	42.66
3 Months Ago 10/27/2015	0.14	99.86	97.33	92.27	71.08	46.00
Start of Calendar Year 12/29/2015	0.00	100.00	97.33	87.55	69.07	44.84
Start of Water Year 9/29/2015	0.14	99.86	97.33	92.36	71.08	46.00
One Year Ago 1/27/2015	0.00	100.00	98.13	94.34	77.52	39.99

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

Mark Svoboda National Drought Mitigation Center









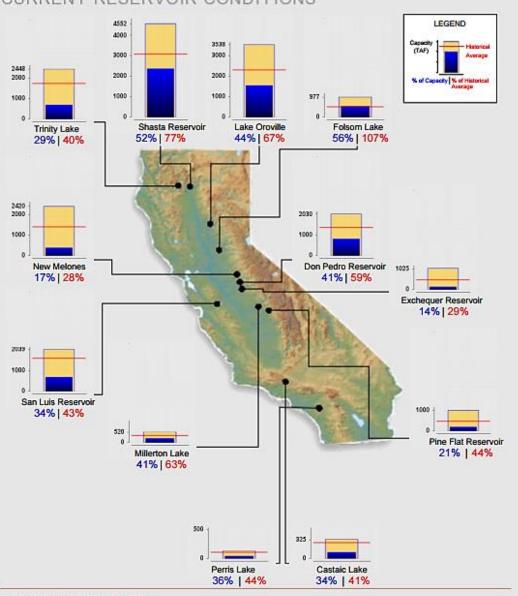
http://droughtmonitor.unl.edu/



Reservoir Conditions

Ending At Midnight - February 1, 2016

CURRENT RESERVOIR CONDITIONS

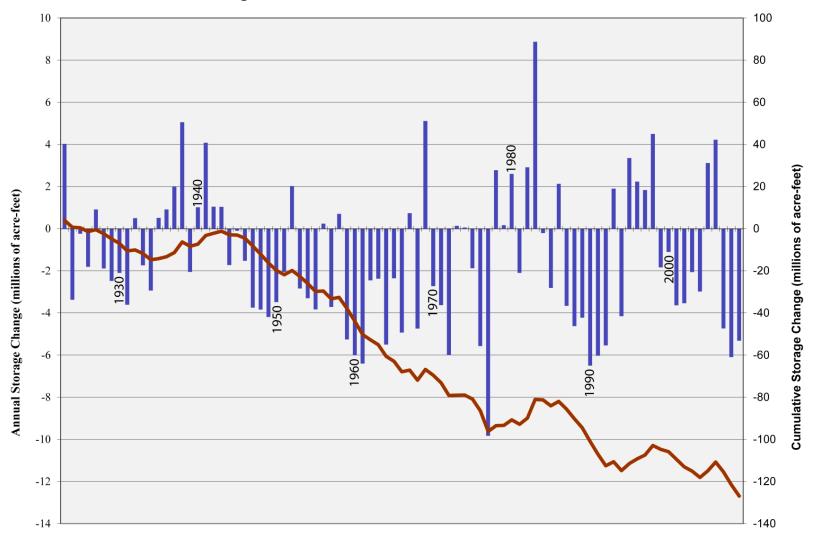






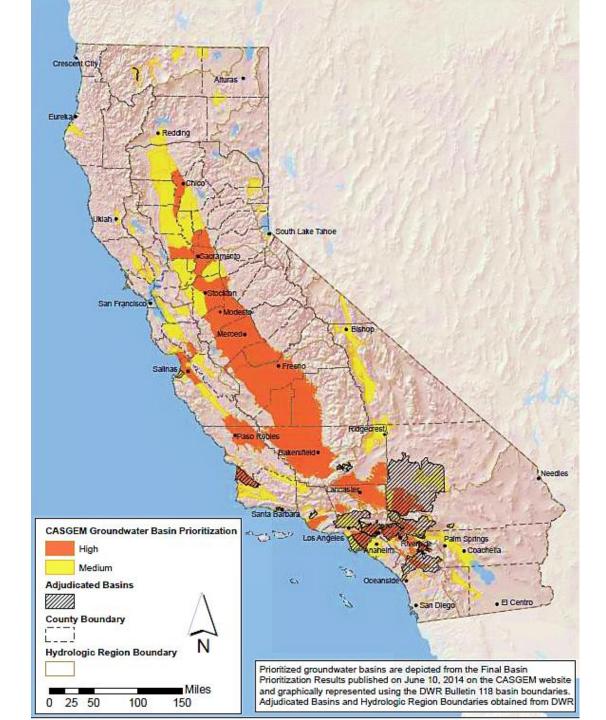


Change in Groundwater Storage for the Central Valley



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 (GSAs)
 - Local plans (GSPs)
 - "Exempts" adjudicated basins
- State Role
 - Assistance (financial and technical)
 - Plan Review
 - Back-Stop





Sustainable Groundwater Management Act (SGMA)

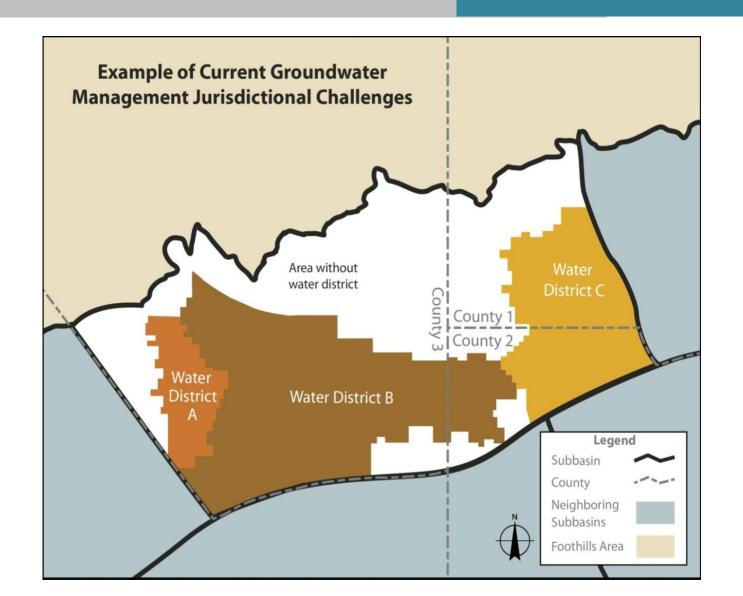
Sustainability: Manage groundwater to prevent undesirable results (significant & unreasonable):

- Chronic lowering of groundwater levels
- Reduction of groundwater storage
- Seawater intrusion
- Degraded water quality
- Land subsidence
- Depletions of interconnected surface water

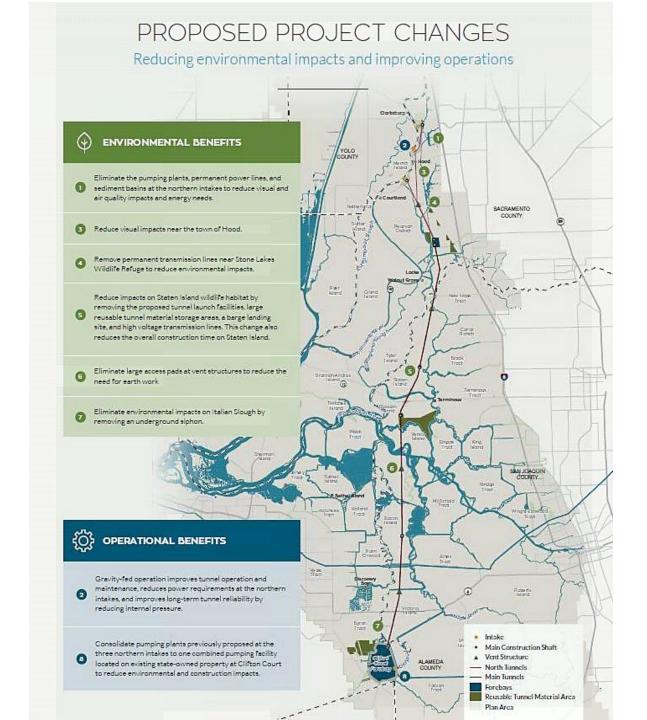
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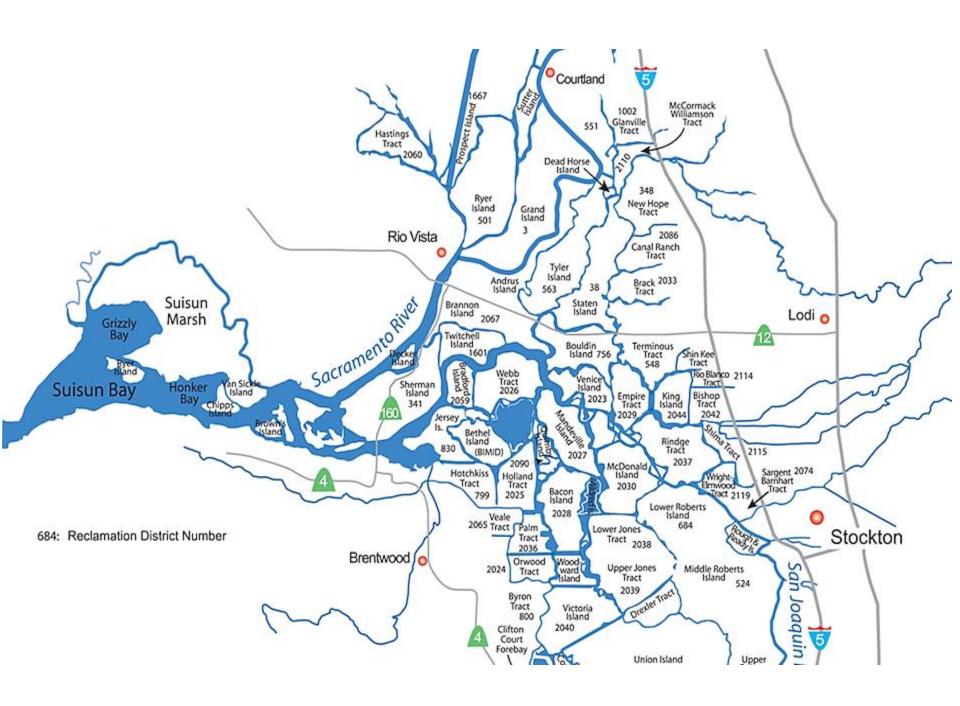
Deadline	Action	Who	
January 2016	Basin Boundary regulations (completed)	DWR	
June 2016	Groundwater Sustainability Plan (GSP) regulations	DWR	
June 2017	Groundwater Sustainability Agency (GSA) Formation	Local agencies	
January 2020/2022	GSPs submitted to DWR –provides the roadmap to sustainability	Local GSAs	
Annually	Annual reporting to DWR on total water use, groundwater extractions, change in groundwater elevation and storage	Local GSAs	
Every 5 years	Achieve interim milestones toward sustainability goal	Local GSAs	
20-year implementation	GSP implementation and achievement of sustainability goal	Local GSAs	

Jurisdiction Formation



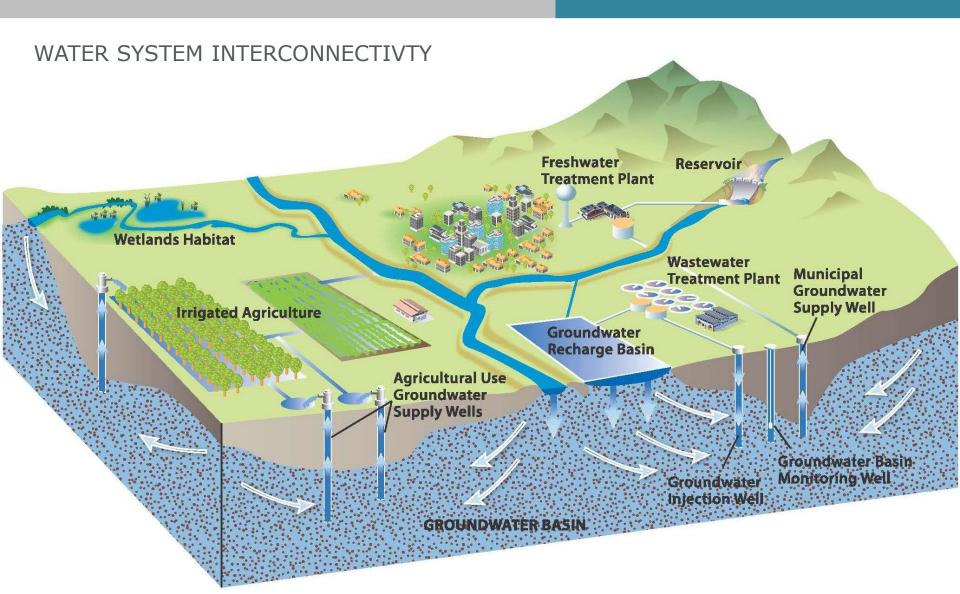
Delta Tunnels







Integrated Water Management







Transformative Moment in California Water

- Invest in Management Diversification
- Create Markets to Move Water
- Drive Conservation
- Build Ecosystem Resilience
- Safe Drinking Water for All





SWM Profile Framework

		Stress Level	Management Response			
Themes	Stressors	High/Moderate/Low	Initial Steps	Moderate Progress	Advanced Progress	Leading Practice
SUPPLY						
	1. Supply Reliability					
	2. Groundwater Supply					
	3. Source Water Quality					
	4. Natural Hazards					
	5. Climate Change					
DEMAND						
	6. Urban Demand					
	7. Agricultural Demand					
ENVIRONMENT						
	8. Sensitive Species					
	9. Watershed Health					
FINANCE						
	10. Finance and Investment					

Integrated Water Management

