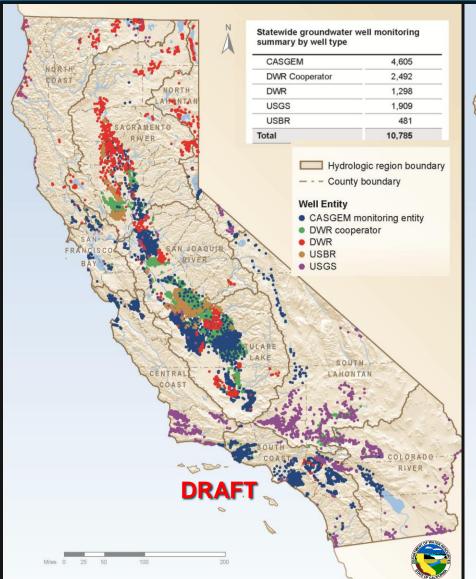
#### Statewide Mont Wells by Entity and Well Type

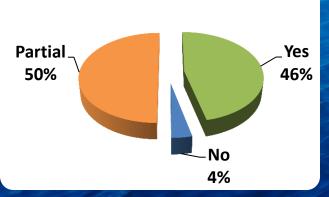


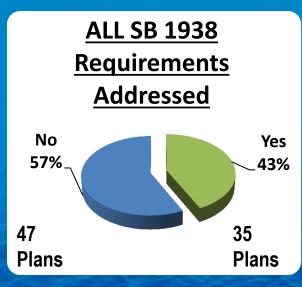


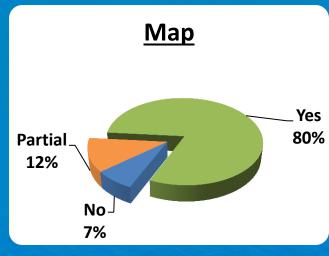
# GWMP Assessment



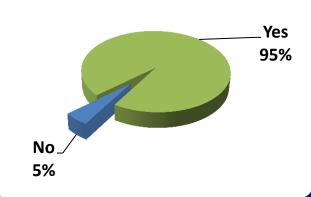
#### **Monitoring Protocols**



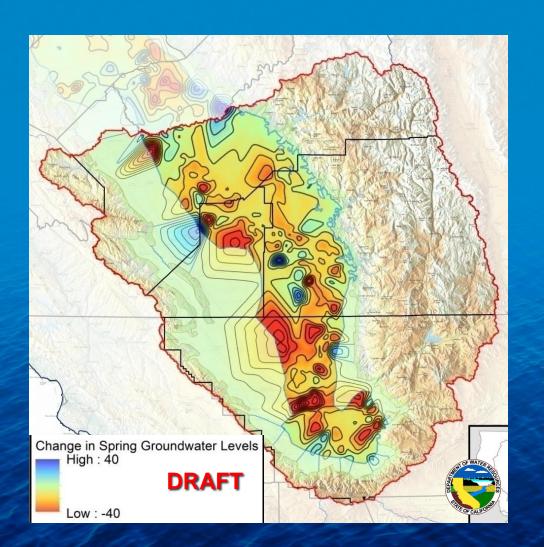


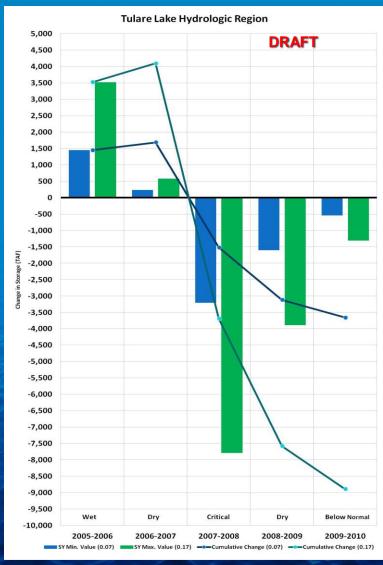


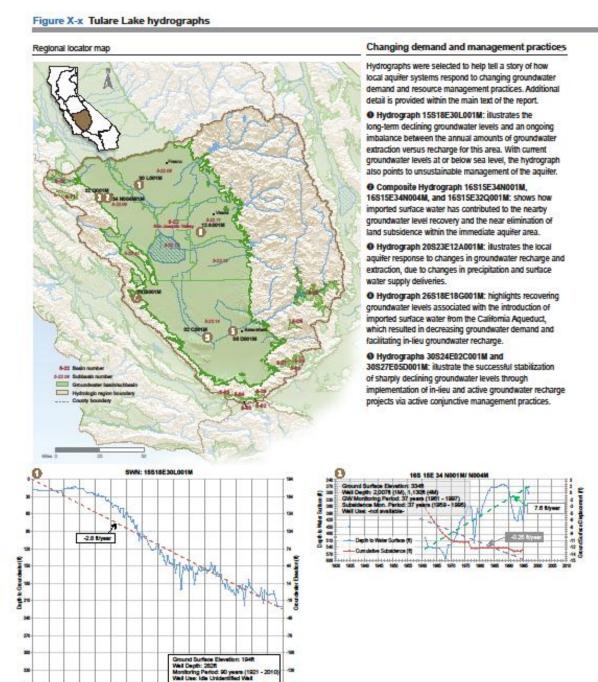




# Annual Change in Groundwater Storage Spring 2005 – Spring 2010 Tulare Lake HR







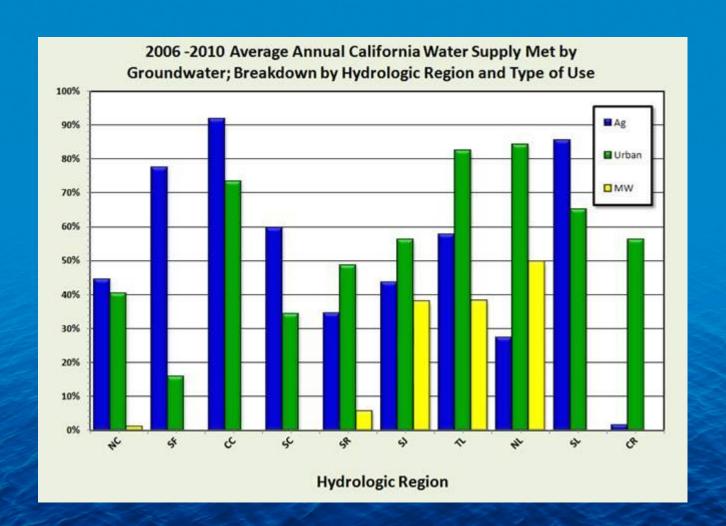
#### Groundwater Use...% Use Met by GW

HR (% Use Met by GW)

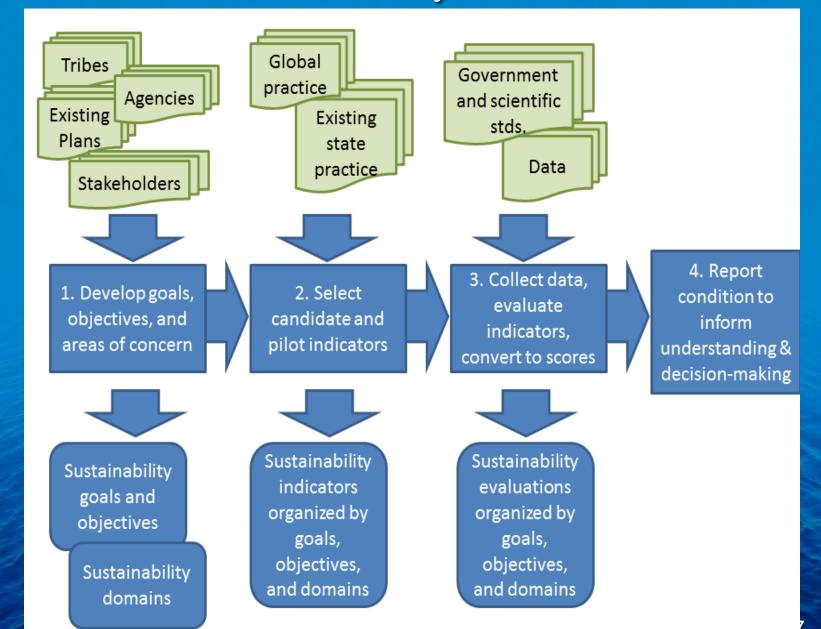


County (% Use Met by GW)

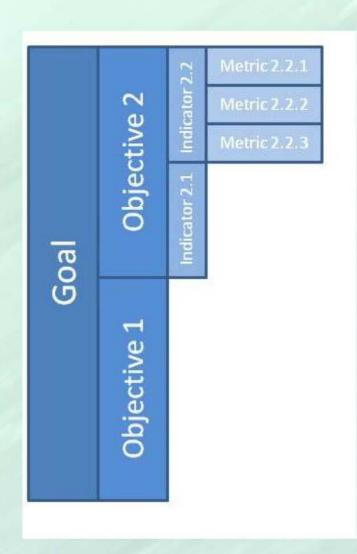




#### California Water Sustainability Indicators Framework



#### Organizing indicators



Water supply reliability

Water quality

Ecosystem health

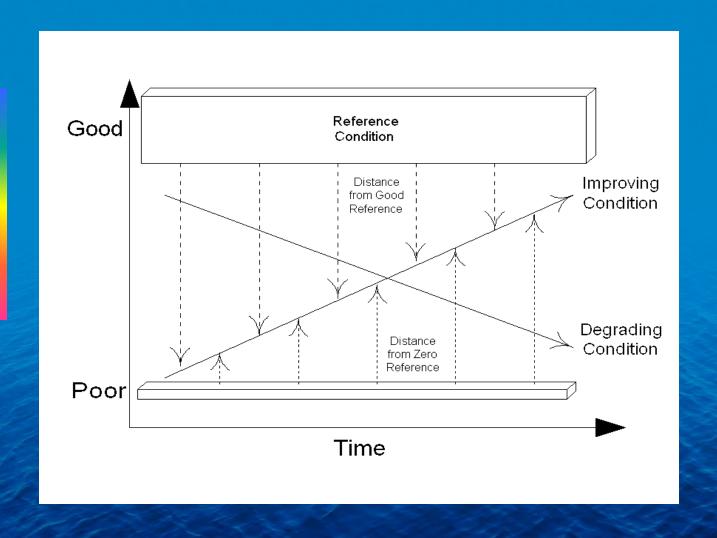
Social benefits and equity

Adaptive & sustainable management

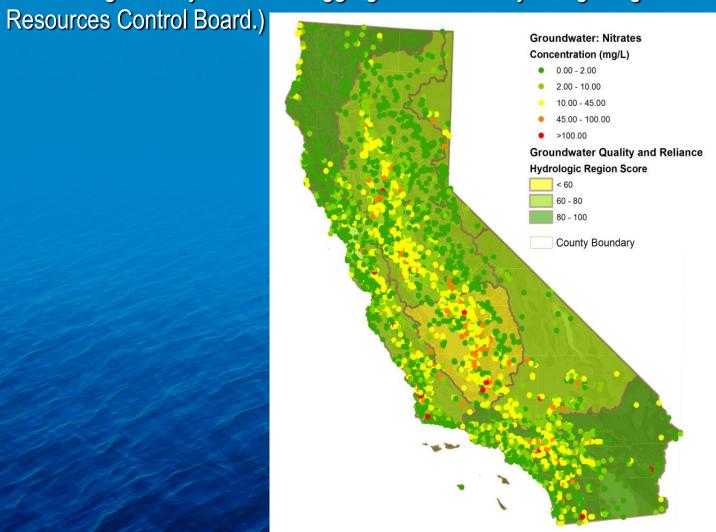
Sustainability Goals and Objectives for California Water	
Sustainability Goals and Objectives	Relationship to Water Plan 2009
Goal 1: Manage and make decisions about water in a way that	Reflects overall goal of
integrates water availability, environmental conditions, and community	sustainability; Various RMSs
well-being for future generations.	
Goal 2. Improve water supply reliability to meet human needs, reduce	Water Plan Objective 2, 3, 9; RMS
energy demand, and restore and maintain aquatic ecosystems and processes.	Reduce water demand; Increase water supply
Objectives: Increase water use efficiency; Increase water recycling; Reduce water demand; Increase water supply; Increase conjunctive	
management of new and recycled water from multiple sources.	
Goal 3. Improve beneficial uses and reduce impacts associated with	Water Plan Objective 1, 2, 7, 11;
water management.	RMS Improve operational
Objectives: Improve regional water movement operations and	efficiency
efficiency; Investigate new water technologies; Improve social and	
ecological benefits from water transfers; Reduce social and ecological	
impacts from water transfers.	
Goal 4. Improve quality of drinking water, irrigation water, and in-	Water Plan Objective 4, 12, 13;
stream flows to protect human and environmental health.	RMS Improve water quality
Objectives: Improve water quality for human uses and as a	
consequence of human use; Protect the natural systems that maintain water quality.	
Goal 5. Protect and enhance environmental conditions by improving	Water Plan Objective 5, 12, 13;
watershed, floodplain, and aquatic condition and processes.	RMS Practice resource
Objectives: Practice, promote, improve, and expand environmental	stewardship
stewardship; Maintain and increase watershed protection through	stewardship
conservation activities and investments; Protect aquatic, floodplain,	
and riparian biotic communities.	
Goal 6. Integrate flood risk management with other water and land	Water Plan Objective 1, 6, 8, 12,
management and restoration activities.	13; RMS Improve flood
Objectives: Reduce impacts of developed lands on flooding and	management
channel processes; Balance flood protection with water storage and	•
conservation.	
Goal 7. Employ adaptive decision-making, especially in light of	Water Plan Objective 10; Various
uncertainties, that support integrated regional water management and	RMSs
flood management systems.	
Objectives: Improve and expand monitoring, data management, and	
analysis; Connect decision-making with data and analysis; Improve	
diversity of population involved in decision-making.	

Water Sustainability Domains		
Domain Name	Description	
Water Supply	The availability or provision of water of sufficient quantity and quality to	
Reliability	meet water needs for health and economic well-being and functioning.	
Water Quality	The chemical and physical quality of water to meet ecosystem and	
	drinking water standards and requirements.	
Ecosystem Health	The condition of natural system, including terrestrial systems	
	interacting with aquatic systems through runoff pathways.	
Adaptive and	A management system that can nimbly and appropriately respond to	
Sustainable	changing conditions and that is equitable and representative of the	
Management	various needs for water in California.	
Social Benefits and	The health, economic, and equity benefits realized from a well-	
Equity	managed water system, including management of water withdrawal and water renewal.	

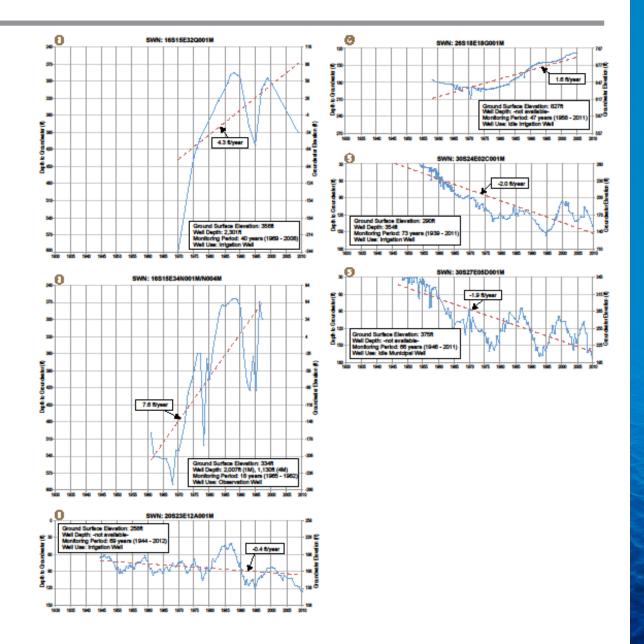
## "Distance to Target"



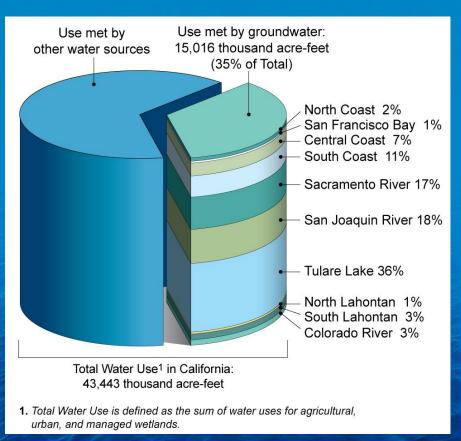
Groundwater and Drinking Water Contamination Score for Hydrologic Regions (The score is based on the proportion of each county's population that is 100% dependent on groundwater that exceeds one or more MCLs for contaminants [SWRCB, 2013]. A score of 0 was assigned if a county has more than 10% of residents relying on contaminated groundwater. A score of 100 was assigned if a county has 0% of residents relying on contaminated groundwater. The average county score was aggregated to each hydrologic region. Data source: State Water Resources Control Board.)



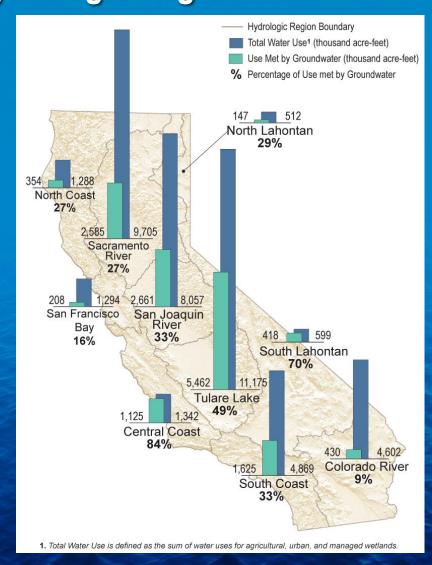




## CWP Update 2009: Water Use Met by Groundwater: Statewide and by Hydrologic Region



California Water Plan Update 2009 (1998-2005 average annual data)



### **Glossary of Terms**

Term	Definition
Goal	A goal is a broad statement describing where a community or society would like to end up.
Objective	Objectives are more specific and measurable aspects of a broader goal.
Indicator	Indicators are qualitative or quantitative parameters that are metrics from monitoring programs (e.g., groundwater level, streamflow). Indicators are the ways to measure achievement of objectives and progress toward goals
Index	An index is an aggregation of indicators that may convey a story about a system, or part of a system.
Theme/domain	Themes and domains are types of category (i.e., collection of like attributes) and are terms of art referring to large parts of natural or social systems (e.g., landscape condition).

#### **Proposed Definition**

Water sustainability is the dynamic state of water use and supply that meets today's needs without compromising the long-term capacity of the natural and human aspects of the water system to meet the needs of future generations.



#### California Water Plan Vision

California has healthy watersheds and integrated, reliable, and secure water resources and management systems that:

- Enhance public health, safety, and quality of life in all its communities;
- Sustain economic growth, business vitality, and agricultural productivity; and
- Protect and restore California's unique biological diversity, ecological values, and cultural heritage.

