# Glenn County

# Groundwater Conditions Update Fall 2014



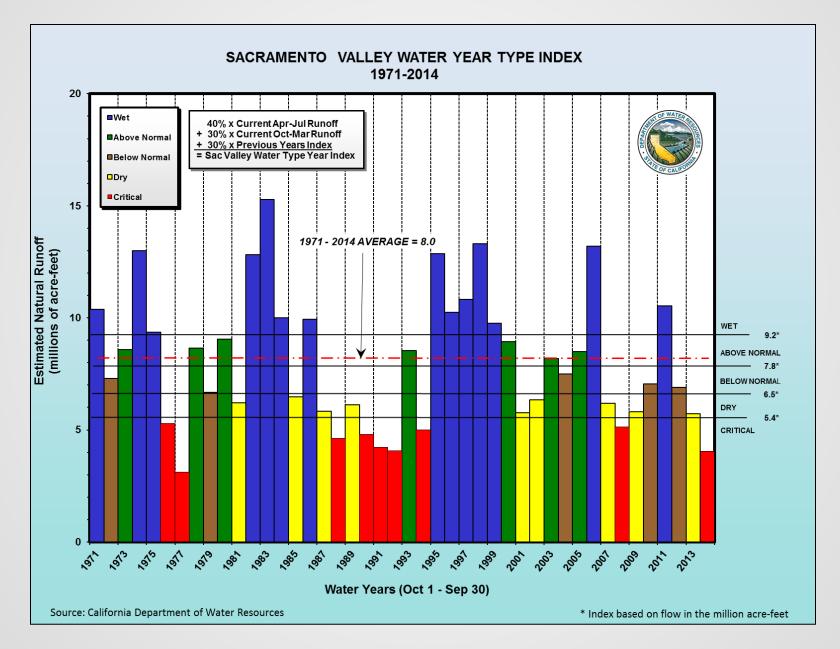
Erin Smith, Engineering Geologist CA Department of Water Resources February 10, 2015



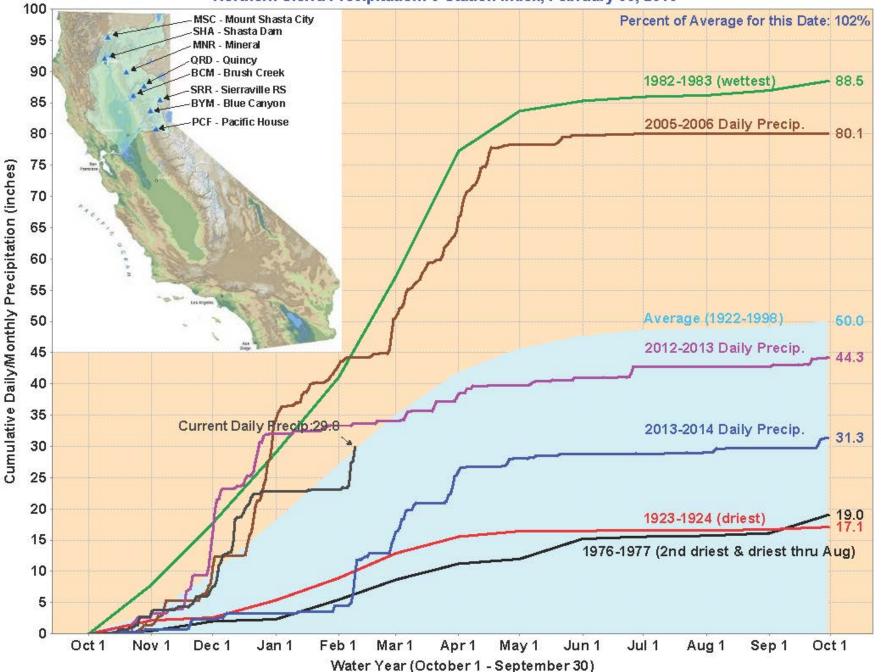
Outline

- Precipitation and runoff
- Groundwater Conditions
  - Online Resources

## Water Year Index 1971-2014

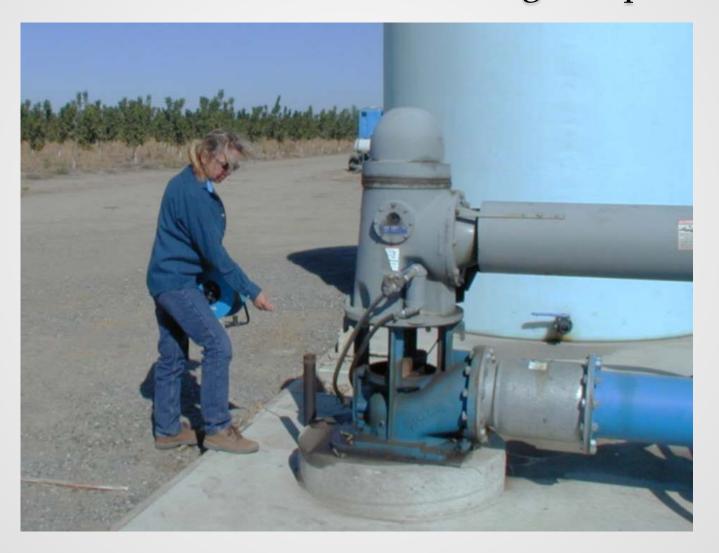


Northern Sierra Precipitation: 8-Station Index, February 09, 2015

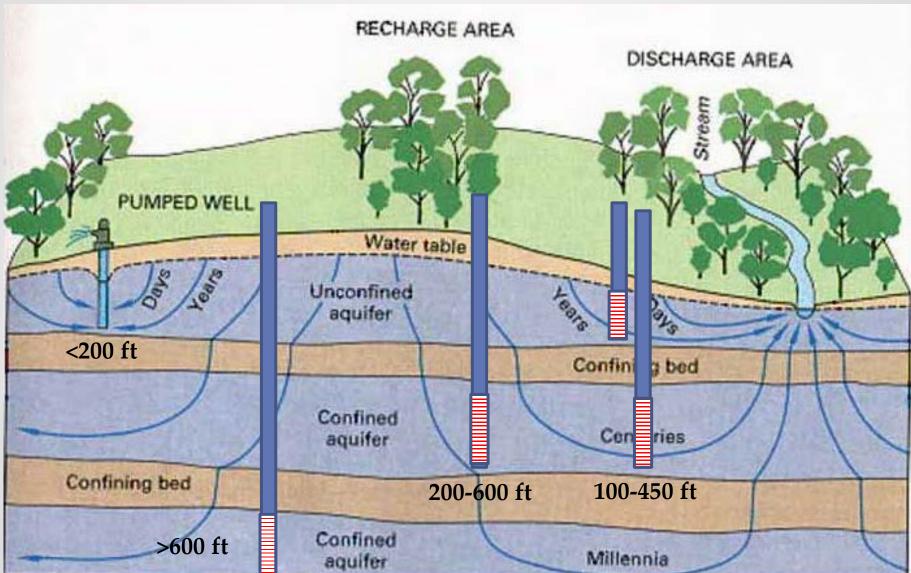


Total Water Year Precipitation

## Groundwater Monitoring and Groundwater Elevation Change Maps



# Groundwater level data are then grouped for analysis by well depth

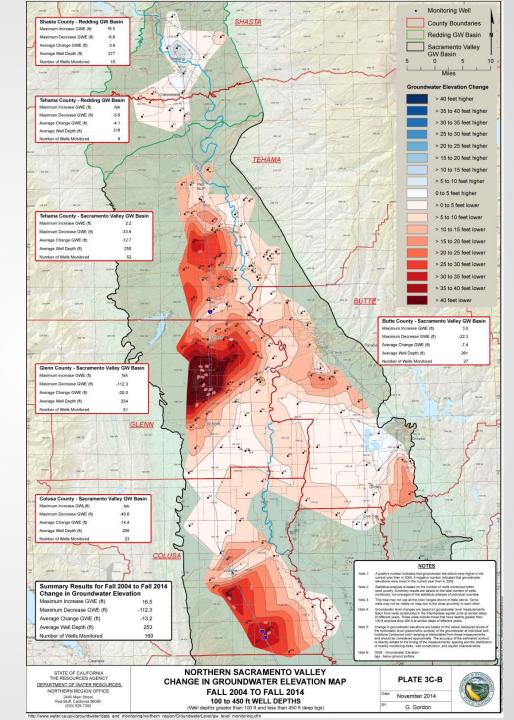


Fall 2004 to 2014

### well depth: 100 to 450 feet below ground surface

#### Summary Results for Fall 2004 to Fall 2014 Change in Groundwater Elevation

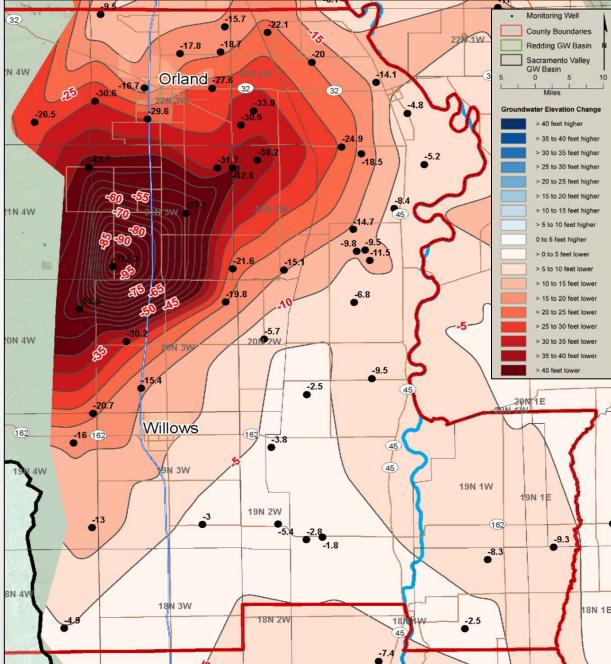
Maximum Increase GWE (ft)	16.5
Maximum Decrease GWE (ft)	-112.3
Average Change GWE (ft)	-13.2
Average Well Depth (ft)	253
Number of Wells Monitored	169



Fall 2004 to 2014

#### well depth: 100 to 450 feet below ground surface

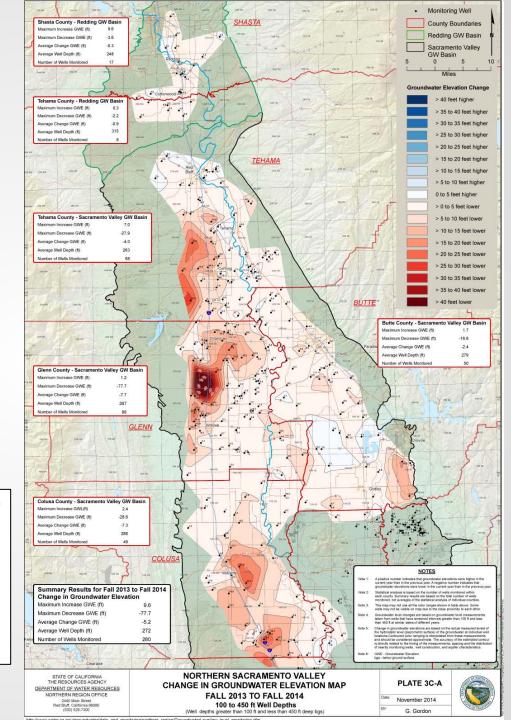
Glenn County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-112.3
Average Change GWE (ft)	-20.0
Average Well Depth (ft)	234
Number of Wells Monitored	51



Fall 2013 to 2014

#### well depth: 100 to 450 feet below ground surface

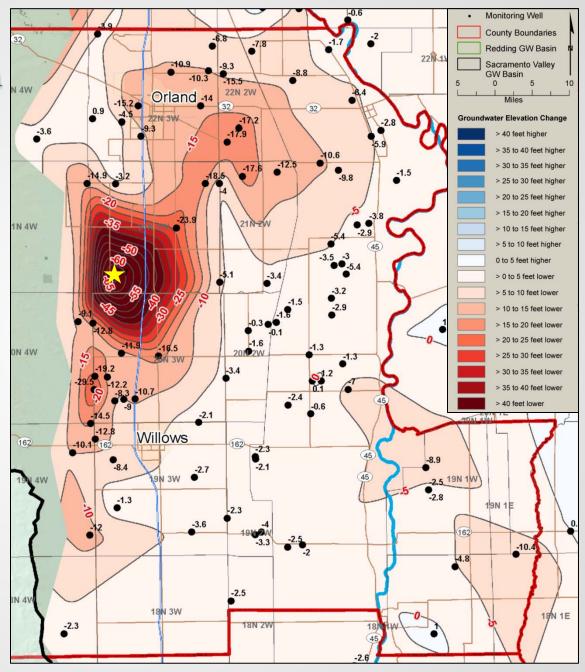
Summary Results for Fall 2013 to Fall 2014 Change in Groundwater Elevation		
Maximum Increase GWE (ft)	9.6	
Maximum Decrease GWE (ft)	-77.7	
Average Change GWE (ft)	-5.2	
Average Well Depth (ft)	272	
Number of Wells Monitored	280	



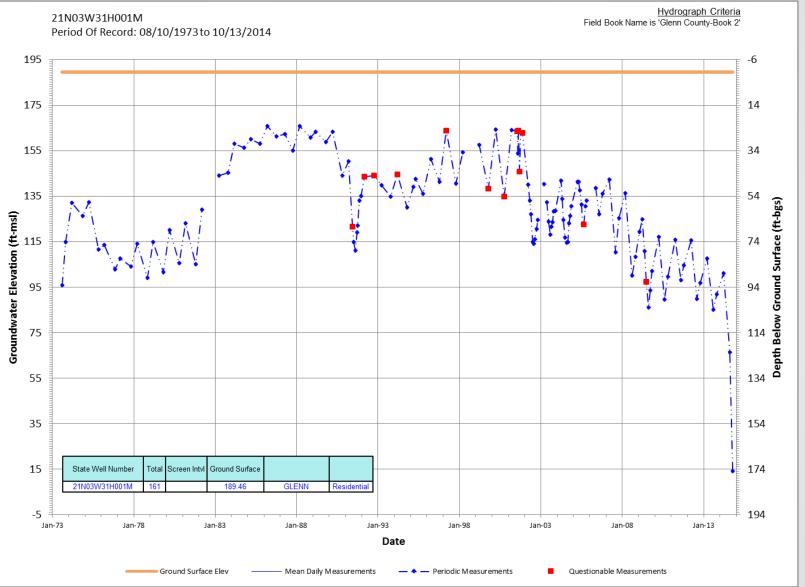
Fall 2013 to 2014

#### well depth: 100 to 450 feet below ground surface

Glenn County - Sacramento	Valley GW Basin
Maximum Increase GWE (ft)	1.2
Maximum Decrease GWE (ft)	-77.7
Average Change GWE (ft)	-7.7
Average Well Depth (ft)	267
Number of Wells Monitored	88



## Groundwater Elevation Hydrograph

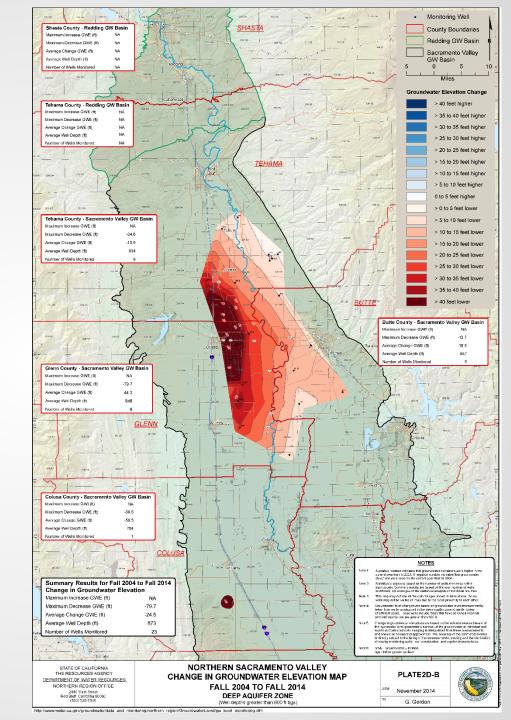


#### Fall 2004 to 2014

#### Deep: greater than 600 feet below ground surface

Glenn County - Sacramento Valley	GW Basin
Maximum Increase GWE (ft)	NA

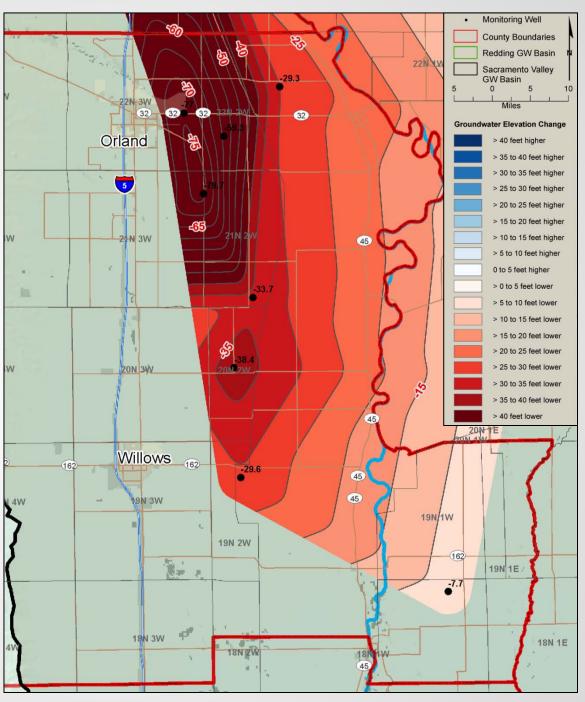
Maximum Decrease GWE (ft)	-79.7
Average Change GWE (ft)	-44.3
Average Well Depth (ft)	948
Number of Wells Monitored	8



Fall 2004 to 2014

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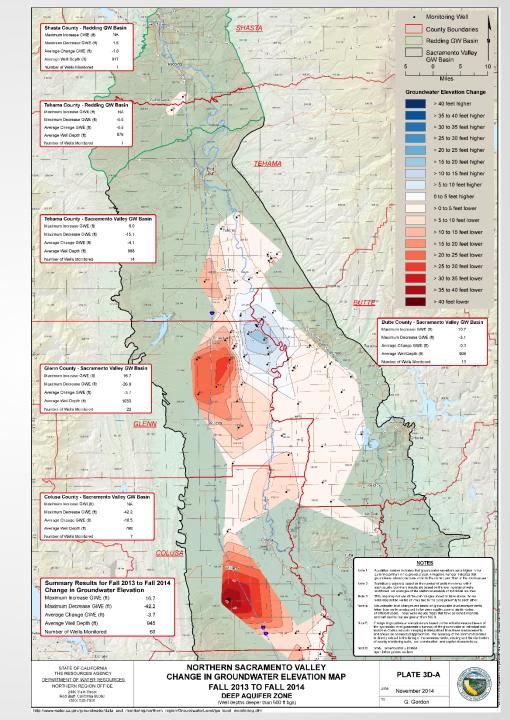
Glenn County - Sacramento	Valley GW Basin
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Fall 2013 to 2014

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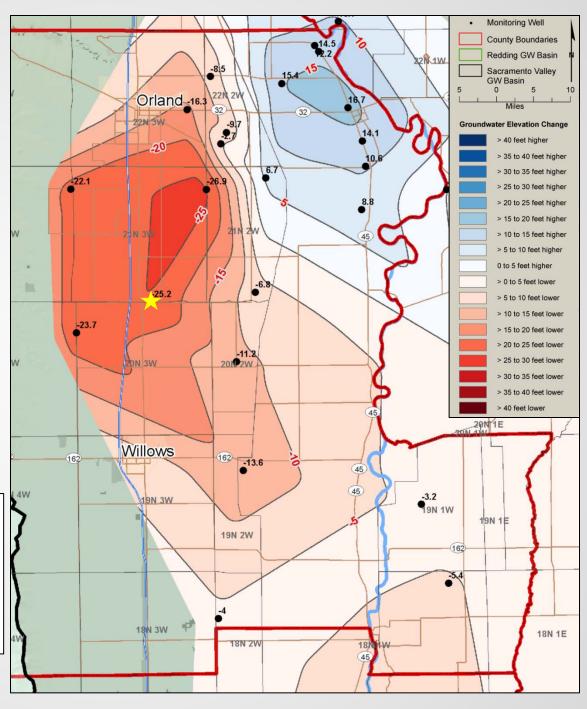
Glenn County - Sacramento	Valley GW	Basin
Maximum Increase GWE (ft)	16.7	
Maximum Decrease GWE (ft)	-26.9	
Average Change GWE (ft)	-3.7	
Average Well Depth (ft)	1053	
Number of Wells Monitored	22	



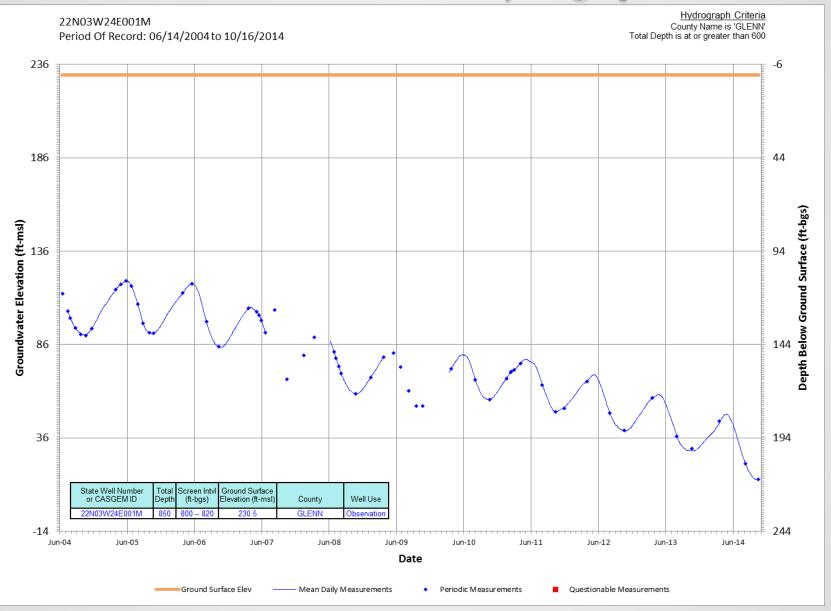
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#### Deep: greater than 600 feet below ground surface

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## Groundwater Elevation Hydrograph



#### -New-DWR Groundwater Information Center



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#### Groundwater Information Center

#### Introduction

HOME

The Groundwater Information Center is DWR's portal for groundwater information, groundwater management plans, water well basics, and statewide and regional reports, maps and figures. California's groundwater provides approximately 30 to 46 percent of the State's total water supply, depending on wet or dry years, and serves as a critical buffer against drought and climate change. Some communities in California are 100 percent reliant upon groundwater for urban and agricultural use.

DWR has a long-standing history of collecting and analyzing groundwater data, investigating and reporting groundwater conditions, implementing local groundwater assistance grants, encouraging integrated water management, and providing the technical expertise needed to improve groundwater management practices. DWR will continue to work with local agencies and regional organizations to provide data that enables sustainable groundwater management. The Groundwater Information Center website will be updated as new information becomes available.

#### New Groundwater and Sustainable Groundwater Management websites

As a result of the recent groundwater legislation, DWR has created two new websites relating to groundwater: "Groundwater" and "Sustainable Groundwater Management". The **new DWR Groundwater website** provides a central hub to California's major groundwater programs that DWR is responsible for, including Sustainable Groundwater Management, California Statewide Groundwater Elevation Monitoring (CASGEM), and Bulletin 118. The **new DWR Sustainable Groundwater Management website** provides information related to DWR's new Sustainable Groundwater Management Program.



Initial Groundwater Basin Prioritization under the Sustainable Groundwater Management (SGM) Act

The SGM Act directs DWR to develop the initial groundwater basin priority by January 31, 2015. DWR has concluded that the basin prioritization finalized in June 2014 under the California Statewide Groundwater Elevation Monitoring (CASGEM) program will be the initial basin prioritization. The SGM Act applies to the 127 High and Medium priority groundwater basins, which account for approximately 96 percent of groundwater use in California. **Read more here...** 

#### Groundwater Legislation, Sustainable Groundwater Management Act

On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package, known as the Sustainable Groundwater Management Act

#### GROUNDWATER HOME

#### GROUNDWATER INFORMATION CENTER

- » Groundwater Basics
- » Maps and Reports
- » Groundwater Management » Key Legislation
- » Groundwater Management Plans
- » Developing a Groundwater Management Plan
- » Groundwater Well Information
- » Well Completion Reports
- » Well Standards
- » Well Inquiries
- » Well Permitting Agencies
- » Monitoring and Data Collection » CASGEM
- » Water Data Library
- » Water Quality
- » Land Subsidence
- » Interactive Map Application
- » Contacts

#### » SUSTAINABLE GROUNDWATER MANAGEMENT

- » CASGEM
- » BULLETIN 118

Highlights

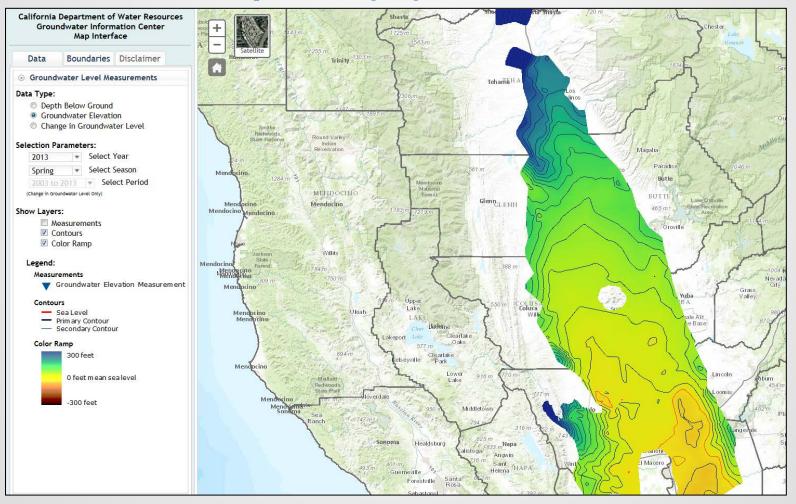


#### http://water.ca.gov/groundwater/

## -New-DWR Groundwater Information Center Maps



#### http://water.ca.gov/groundwater/



## Thank you



http://water.ca.gov/groundwater/