

Shasta County - Redding GW Basin	
Maximum Increase GWE (ft)	1.4
Maximum Decrease GWE (ft)	-12.8
Average Change GWE (ft)	-2.5
Average Well Depth (ft)	248
Number of Wells Monitored	16

Tehama County - Redding GW Basin	
Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-5.9
Average Change GWE (ft)	-3.6
Average Well Depth (ft)	215
Number of Wells Monitored	5

Tehama County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	0.4
Maximum Decrease GWE (ft)	-46.8
Average Change GWE (ft)	-11.5
Average Well Depth (ft)	264
Number of Wells Monitored	54

Glenn County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	10.6
Maximum Decrease GWE (ft)	-42.4
Average Change GWE (ft)	-12.1
Average Well Depth (ft)	256
Number of Wells Monitored	71

Colusa County - Sacramento Valley GW Basin	
Maximum Increase GWE(ft)	2.7
Maximum Decrease GWE (ft)	-50.7
Average Change GWE (ft)	-10.8
Average Well Depth (ft)	265
Number of Wells Monitored	36

Summary Results for Fall 2011 to Fall 2016 Change in Groundwater Elevation	
Maximum Increase GWE (ft)	10.6
Maximum Decrease GWE (ft)	-50.7
Average Change GWE (ft)	-9.7
Average Well Depth (ft)	251
Number of Wells Monitored	227

Monitoring Well

County Boundaries

Redding GW Basin

Sacramento Valley GW Basin

5 0 5 10  
Miles

**Groundwater Elevation Change**

- > 40 feet higher
- > 35 to 40 feet higher
- > 30 to 35 feet higher
- > 25 to 30 feet higher
- > 20 to 25 feet higher
- > 15 to 20 feet higher
- > 10 to 15 feet higher
- > 5 to 10 feet higher
- 0 to 5 feet higher
- > 0 to 5 feet lower
- > 5 to 10 feet lower
- > 10 to 15 feet lower
- > 15 to 20 feet lower
- > 20 to 25 feet lower
- > 25 to 30 feet lower
- > 30 to 35 feet lower
- > 35 to 40 feet lower
- > 40 feet lower

Butte County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	1.3
Maximum Decrease GWE (ft)	-18.8
Average Change GWE (ft)	-6.1
Average Well Depth (ft)	223
Number of Wells Monitored	45

**NOTES**

Note 1: A positive number indicates that groundwater elevations were higher in the current year than in 2011. A negative number indicates that groundwater elevations were lower in the current year than in 2011.

Note 2: Statistical analysis is based on the number of wells monitored within each county. Summary results are based on the total number of wells monitored, not averages of the statistical analysis of individual counties.

Note 3: This map may not use all the color ranges shown in table above. Some wells may not be visible on map due to the close proximity to each other.

Note 4: Groundwater level changes are based on groundwater level measurements taken from wells constructed in the intermediate aquifer zone at similar dates of different years. These wells include those that have depths greater than 100 ft and less than 450 ft at similar dates of different years.

Note 5: Change in groundwater elevations are based on the actual measured levels of the hydrostatic level (piezometric surface) of the groundwater at individual well locations. Contoured color ramping is interpolated from these measurements and should be considered approximate. The accuracy of the estimated contour is directly related to the timing of the measurements, spacing and the distribution of nearby monitoring wells, well construction, and aquifer characteristics.

Note 6: GWE - Groundwater Elevation  
bgs - below ground surface

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**NORTHERN SACRAMENTO VALLEY  
CHANGE IN GROUNDWATER ELEVATION MAP  
FALL 2011 TO FALL 2016  
100 to 450 ft WELL DEPTHS**  
(Well depths greater than 100 ft and less than 450 ft deep bgs)

**PLATE 3C-C**  
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