Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	0.1
Maximum Decrease GWE (ft)	-6.4
Average Change GWE (ft)	-2.3
Average Well Depth (ft)	145
Number of Wells Monitored	19

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-5.0
Average Change GWE (ft)	-3.4
Average Well Depth (ft)	153
Number of Wells Monitored	7

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.4
Maximum Decrease GWE (ft)	-13.8
Average Change GWE (ft)	-3.9
Average Well Depth (ft)	126
Number of Wells Monitored	53

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.2
Maximum Decrease GWE (ft)	-21.6
Average Change GWE (ft)	-4.3
Average Well Depth (ft)	125
Number of Wells Monitored	72

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	0.4
Maximum Decrease GWE (ft)	-8.3
Average Change GWE (ft)	-1.5
Average Well Depth (ft)	126
Number of Wells Monitored	17

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.0
Maximum Decrease GWE (ft)	-17.2
Average Change GWE (ft)	-3.7
Average Well Depth (ft)	154
Number of Wells Monitored	57

Summary Results for Fall 2011 to Fall 2012 Change in Groundwater Elevation

Maximum Increase GWE (ft)	3.2
Maximum Decrease GWE (ft)	-21.6
Average Change GWE (ft)	-3.6
Average Well Depth (ft)	135
Number of Wells Monitored	225

- Monitoring Well
- County Boundaries
- Redding GW Basin
- Sacramento Valley GW Basin

N

0 1 2 4 6
Miles

Change in Groundwater Elevation

- Greater than 8 feet higher
- > 6 to 8 feet higher
- > 4 to 6 feet higher
- > 2 to 4 feet higher
- 0 to 2 feet higher
- > 0 to 2 feet lower
- > 2 to 4 feet lower
- > 4 to 6 feet lower
- > 6 to 8 feet lower
- Greater than 8 feet lower

SHASTA
TEHAMA
BUTTE
GLENN
COLUSA

Redding
Cottonwood
Red Bluff
Tehama
Corning
Orland
Chico
Paradise
Willows
Oroville
Gridley
Live Oak
Colusa
Williams

NOTES

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

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. Not all wells will 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 shallow aquifer zone at similar dates of different years. These wells include those that have screened intervals and well depths that are generally less than 200 ft.

Note 5: Change in groundwater elevations at the individual well locations are based on the measured level of the actual water table of unconfined wells or the hydrostatic level (piezometric surface) of the groundwater at semi-confined or confined wells. Contoured color ramping and change in groundwater elevation estimates between monitoring wells is a computer generated calculation based on the inverse distance weighted method using the availability and proximity of surrounding monitoring well measurements. As such, the calculated change in groundwater elevation between individual monitoring wells should be considered approximate. The accuracy of the estimated contour is directly related to the spacing and the distribution of nearby monitoring wells, the similarity of nearby monitoring well construction, and the local changes or similarities in 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 2012
SHALLOW AQUIFER ZONE
(Wells generally less than 200 ft bgs)

PLATE 3S-A

Date: January 2013

BY: G. Gordon

Path: R:\Sections\DOM\CHANGE_MAP\2012\2011_2012_Fall\ArcMap\Shallow_Wells_Fall_2011-2012.mxd

http://www.water.ca.gov/groundwater/data_and_monitoring/northern_region/GroundwaterLevel/gw_level_monitoring.cfm