Shasta County - Redding GW Basin	
Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-7.8
Average Change GWE (ft)	-3.9
Average Well Depth (ft)	408
Number of Wells Monitored	5

Tehama County - Redding GW Basin	
Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-11.3
Average Change GWE (ft)	-4.0
Average Well Depth (ft)	456
Number of Wells Monitored	5

Tehama County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-21.3
Average Change GWE (ft)	-6.6
Average Well Depth (ft)	388
Number of Wells Monitored	31

Glenn County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	1.9
Maximum Decrease GWE (ft)	-22.1
Average Change GWE (ft)	-6.6
Average Well Depth (ft)	408
Number of Wells Monitored	32

Colusa County - Sacramento Valley GW Basin	
Maximum Increase GWL(ft)	0.1
Maximum Decrease GWE (ft)	-6.5
Average Change GWE (ft)	-2.3
Average Well Depth (ft)	382
Number of Wells Monitored	13

Butte County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	2.5
Maximum Decrease GWE (ft)	-16.3
Average Change GWE (ft)	-5.4
Average Well Depth (ft)	478
Number of Wells Monitored	25

Summary Results for Fall 2011 to Fall 2012 Change in Groundwater Elevation	
Maximum Increase GWE (ft)	2.5
Maximum Decrease GWE (ft)	-22.1
Average Change GWE (ft)	-5.6
Average Well Depth (ft)	417
Number of Wells Monitored	111

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

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 intermediate aquifer zone at similar dates of different years. These wells include those that have screened intervals and well depths that are generally greater than 200 ft and less than 600 ft.

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 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
INTERMEDIATE AQUIFER ZONE
(Wells generally greater than 200 ft and less than 600 ft bgs)

PLATE 3I-A

Date: January 2013

BY: G. Gordon

Document Path: R:\Sections\DCM\CHANGE_MAP\2012\2011_2012_Fall\ArcMap\Intermediate_Wells_Fall_2011-2012.mxd

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