Shasta County - Redding GW Basin	
Maximum Increase GWE (ft)	3.0
Maximum Decrease GWE (ft)	-6.7
Average Change GWE (ft)	-1.8
Average Well Depth (ft)	131
Number of Wells Monitored	7

Tehama County - Redding GW Basin	
Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-4.2
Average Change GWE (ft)	-2.8
Average Well Depth (ft)	112
Number of Wells Monitored	4

Tehama County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	7.6
Maximum Decrease GWE (ft)	-15.7
Average Change GWE (ft)	-6.6
Average Well Depth (ft)	121
Number of Wells Monitored	40

Glenn County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	2.7
Maximum Decrease GWE (ft)	-44.4
Average Change GWE (ft)	-8.1
Average Well Depth (ft)	111
Number of Wells Monitored	46

Colusa County - Sacramento Valley GW Basin	
Maximum Increase GWL(ft)	2.8
Maximum Decrease GWE (ft)	-20.9
Average Change GWE (ft)	-3.8
Average Well Depth (ft)	132
Number of Wells Monitored	18

Butte County - Sacramento Valley GW Basin	
Maximum Increase GWE (ft)	6.1
Maximum Decrease GWE (ft)	-13.3
Average Change GWE (ft)	-3.2
Average Well Depth (ft)	130
Number of Wells Monitored	25

Summary Results for Fall 2004 to Fall 2013 Change in Groundwater Elevation	
Maximum Increase GWE (ft)	7.6
Maximum Decrease GWE (ft)	-44.4
Average Change GWE (ft)	-5.8
Average Well Depth (ft)	121
Number of Wells Monitored	140

Monitoring Well

County Boundaries

Redding GW Basin

Sacramento Valley GW Basin

N

0 1 2 4 6

Miles

Change in Groundwater Elevation

- Greater than 20 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
- Greater than 20 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 2004. A negative number indicates that groundwater elevations were lower in the current year than in 2004.

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 shallow aquifer zone at similar dates of different years. These wells include those that have screened intervals and well depths that are 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 calculations 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 2004 TO FALL 2013

SHALLOW AQUIFER ZONE

(Well depths less than 200 ft bgs)

PLATE 3S-B

Date: January 2014

BY: G. Gordon

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

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2013\Fall_2013\F13_ShallowShallowFall2004to2013.mxd