Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	0.7
Maximum Decrease GWE (ft)	-1.9
Average Change GWE (ft)	-0.4
Average Well Depth (ft)	122
Number of Wells Monitored	13

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	1.9
Maximum Decrease GWE (ft)	-0.6
Average Change GWE (ft)	0.5
Average Well Depth (ft)	129
Number of Wells Monitored	5

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.4
Maximum Decrease GWE (ft)	-5.5
Average Change GWE (ft)	-1.0
Average Well Depth (ft)	120
Number of Wells Monitored	43

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	6.0
Maximum Decrease GWE (ft)	-14.3
Average Change GWE (ft)	-1.2
Average Well Depth (ft)	114
Number of Wells Monitored	52

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	2.4
Maximum Decrease GWE (ft)	-4.9
Average Change GWE (ft)	-0.6
Average Well Depth (ft)	131
Number of Wells Monitored	21

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	5.8
Maximum Decrease GWE (ft)	-5.0
Average Change GWE (ft)	-1.3
Average Well Depth (ft)	132
Number of Wells Monitored	37

Summary Results for Fall 2012 to Fall 2013 Change in Groundwater Elevation

Maximum Increase GWE (ft)	6.0
Maximum Decrease GWE (ft)	-14.3
Average Change GWE (ft)	-1.0
Average Well Depth (ft)	123
Number of Wells Monitored	171

- 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. 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 2012 TO FALL 2013
SHALLOW AQUIFER ZONE
(Well depths less than 200 ft bgs)

PLATE 3S-A

Date: November 2013

BY: G. Gordon

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2013\Fall_2013\F13_ShallowShallowFall2012to2013.mxd