Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	0.2
Maximum Decrease GWE (ft)	-7.2
Average Change GWE (ft)	-2.2
Average Well Depth (ft)	140
Number of Wells Monitored	16

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	0.3
Maximum Decrease GWE (ft)	-3.3
Average Change GWE (ft)	-1.4
Average Well Depth (ft)	133
Number of Wells Monitored	7

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.6
Maximum Decrease GWE (ft)	-12.9
Average Change GWE (ft)	-4.4
Average Well Depth (ft)	133
Number of Wells Monitored	50

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.3
Maximum Decrease GWE (ft)	-18.3
Average Change GWE (ft)	-4.3
Average Well Depth (ft)	124
Number of Wells Monitored	63

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	6.5
Maximum Decrease GWE (ft)	-15.5
Average Change GWE (ft)	-1.3
Average Well Depth (ft)	132
Number of Wells Monitored	23

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	0.8
Maximum Decrease GWE (ft)	-22.6
Average Change GWE (ft)	-5.3
Average Well Depth (ft)	152
Number of Wells Monitored	49

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

Maximum Increase GWE (ft)	6.5
Maximum Decrease GWE (ft)	-22.6
Average Change GWE (ft)	-4.0
Average Well Depth (ft)	135
Number of Wells Monitored	208

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

Kelseyville

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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THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
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NORTHERN SACRAMENTO VALLEY
CHANGE IN GROUNDWATER ELEVATION MAP
SUMMER 2011 TO SUMMER 2012
SHALLOW AQUIFER ZONE
(Wells generally less than 200 ft bgs)

PLATE 2S-A

Date: February 2013

BY: G. Gordon

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

Path: R:\Sections\DCM\CHANGE_MAP\2012\2011_2012_Summer\ArcMap\Shallow_Wells_Summer_2011-2012.mxd