Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	NA
Average Change GWE (ft)	NA
Average Well Depth (ft)	NA
Number of Wells Monitored	0

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	NA
Average Change GWE (ft)	NA
Average Well Depth (ft)	NA
Number of Wells Monitored	0

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-14.3
Average Change GWE (ft)	-6.4
Average Well Depth (ft)	809
Number of Wells Monitored	8

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-54.4
Average Change GWE (ft)	-22.3
Average Well Depth (ft)	917
Number of Wells Monitored	8

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	0.8
Maximum Decrease GWE (ft)	-34.1
Average Change GWE (ft)	-13.9
Average Well Depth (ft)	713
Number of Wells Monitored	5

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-6.1
Average Change GWE (ft)	-5.6
Average Well Depth (ft)	892
Number of Wells Monitored	4

Summary Results for Summer 2004 to Summer 2012

Maximum Increase GWE (ft)	0.8
Maximum Decrease GWE (ft)	-54.4
Average Change GWE (ft)	-12.9
Average Well Depth (ft)	838
Number of Wells Monitored	26

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

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. 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 deep aquifer zone at similar dates of different years. These wells include those that have screened intervals and well depths that are generally greater 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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THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
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NORTHERN SACRAMENTO VALLEY CHANGE IN GROUNDWATER ELEVATION MAP SUMMER 2004 TO SUMMER 2012

DEEP AQUIFER ZONE

(Wells generally greater than 600 ft bgs)

PLATE 2D-B

Date: February 2012

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\2004_2012_Summer\ArcMap\Deep_Wells_Summer_2004-2012.mxd