Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	16.5
Maximum Decrease GWE (ft)	-6.6
Average Change GWE (ft)	0.9
Average Well Depth (ft)	277
Number of Wells Monitored	10

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-5.6
Average Change GWE (ft)	-4.1
Average Well Depth (ft)	318
Number of Wells Monitored	6

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.2
Maximum Decrease GWE (ft)	-33.6
Average Change GWE (ft)	-12.7
Average Well Depth (ft)	250
Number of Wells Monitored	52

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-112.3
Average Change GWE (ft)	-20.0
Average Well Depth (ft)	234
Number of Wells Monitored	51

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	NA
Maximum Decrease GWE (ft)	-40.6
Average Change GWE (ft)	-14.4
Average Well Depth (ft)	258
Number of Wells Monitored	23

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.0
Maximum Decrease GWE (ft)	-22.3
Average Change GWE (ft)	-7.4
Average Well Depth (ft)	261
Number of Wells Monitored	27

Summary Results for Fall 2004 to Fall 2014 Change in Groundwater Elevation

Maximum Increase GWE (ft)	16.5
Maximum Decrease GWE (ft)	-112.3
Average Change GWE (ft)	-13.2
Average Well Depth (ft)	253
Number of Wells Monitored	169

- Monitoring Well
- County Boundaries
- Redding GW Basin
- Sacramento Valley GW Basin

N

5 0 5 10

Miles

Groundwater Elevation Change

- > 40 feet higher
- > 35 to 40 feet higher
- > 30 to 35 feet higher
- > 25 to 30 feet higher
- > 20 to 25 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
- > 20 to 25 feet lower
- > 25 to 30 feet lower
- > 30 to 35 feet lower
- > 35 to 40 feet lower
- > 40 feet lower

SHASTA

TEHAMA

BUTTE

GLENN

COLUSA

Redding

Cottonwood

Red Bluff

Tehama

Corning

Orland

Chico

Paradise

Oroville

Gridley

Live Oak

Willows

Williams

Yuba City

Clearlake

Lincoln

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 intermediate aquifer zone at similar dates of different years. These wells include those that have depths greater than 100 ft and less than 450 ft at similar dates of different years.

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 is interpolated from these measurements and should be considered approximate. The accuracy of the estimated contour is directly related to the timing of the measurements, spacing and the distribution of nearby monitoring wells, well construction, and 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 2014

100 to 450 ft WELL DEPTHS

(Well depths greater than 100 ft and less than 450 ft deep bgs)

PLATE 3C-B

Date: November 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\2014\Fall_2014\FL_100450100100450Fall2004to2014.mxd