Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-13.6
Average Change GWE (ft)	-6.0
Average Well Depth (ft)	126
Number of Wells Monitored	11

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-11.6
Average Change GWE (ft)	-6.8
Average Well Depth (ft)	112
Number of Wells Monitored	4

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.1
Maximum Decrease GWE (ft)	-33.9
Average Change GWE (ft)	-12.9
Average Well Depth (ft)	124
Number of Wells Monitored	26

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	0.9
Maximum Decrease GWE (ft)	-23.9
Average Change GWE (ft)	-7.2
Average Well Depth (ft)	136
Number of Wells Monitored	30

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-53.1
Average Change GWE (ft)	-19.1
Average Well Depth (ft)	135
Number of Wells Monitored	27

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	5.2
Maximum Decrease GWE (ft)	-30.6
Average Change GWE (ft)	-7.1
Average Well Depth (ft)	136
Number of Wells Monitored	13

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

Maximum Increase GWE (ft)	5.2
Maximum Decrease GWE (ft)	-53.1
Average Change GWE (ft)	-11.3
Average Well Depth (ft)	131
Number of Wells Monitored	111

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
Willows
Oroville
Gridley
Live Oak
Colusa
Williams
Clearlake

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 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

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
NORTHERN REGION OFFICE
2440 Main Street
Red Bluff, California 96080
(530) 529-7300

NORTHERN SACRAMENTO VALLEY
CHANGE IN GROUNDWATER ELEVATION MAP
SUMMER 2004 TO SUMMER 2014
SHALLOW AQUIFER ZONE
(Well depths less than 200 ft bgs)

PLATE 2S-B

Date: September 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\Summer_2014\SM_Shallow\ShallowSummer2004to2014.mxd