| Shasta County - Redding GW Basin | |
|---|---|
| Maximum Increase GWE (ft) | 2.2 |
| Maximum Decrease GWE (ft) | NA |
| Average Change GWE (ft) | 2.2 |
| Average Well Depth (ft) | 790.0 |
| Number of Wells Monitored | 2.0 |

| Tehama County - Redding GW Basin | |
|---|---|
| Maximum Increase GWE (ft) | 1.3 |
| Maximum Decrease GWE (ft) | NA |
| Average Change GWE (ft) | 1.3 |
| Average Well Depth (ft) | 865.0 |
| Number of Wells Monitored | 1.0 |

| Tehama County - Sacramento Valley GW Basin | |
|---|---|
| Maximum Increase GWE (ft) | 5.9 |
| Maximum Decrease GWE (ft) | -0.9 |
| Average Change GWE (ft) | 1.2 |
| Average Well Depth (ft) | 844.6 |
| Number of Wells Monitored | 14.0 |

| Glenn County - Sacramento Valley GW Basin | |
|---|---|
| Maximum Increase GWE (ft) | 2.3 |
| Maximum Decrease GWE (ft) | -41.6 |
| Average Change GWE (ft) | -7.2 |
| Average Well Depth (ft) | 924.1 |
| Number of Wells Monitored | 25.0 |

| Colusa County - Sacramento Valley GW Basin | |
|---|---|
| Maximum Increase GWL(ft) | 4.1 |
| Maximum Decrease GWE (ft) | -4.1 |
| Average Change GWE (ft) | 0.3 |
| Average Well Depth (ft) | 905.5 |
| Number of Wells Monitored | 11.0 |

| Butte County - Sacramento Valley GW Basin | |
|---|---|
| Maximum Increase GWE (ft) | 8.2 |
| Maximum Decrease GWE (ft) | -8.0 |
| Average Change GWE (ft) | 2.1 |
| Average Well Depth (ft) | 856.8 |
| Number of Wells Monitored | 14.0 |

| Summary Results for Fall 2010 to Fall 2011 Change in Groundwater Elevation | |
|---|---|
| Maximum Increase GWE (ft) | 8.2 |
| Maximum Decrease GWE (ft) | -41.6 |
| Average Change GWE (ft) | -1.9 |
| Average Well Depth (ft) | 885.5 |
| Number of Wells Monitored | 67.0 |

Monitoring Well

County Boundaries

Redding GW Basin

Sacramento Valley GW Basin

N

0 1 2 4 6

Miles

**Annual 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

COLUSA

Redding

Cottonwood

Red Bluff

Tehama

Corning

Orland

Chico

Willows

Oroville

Gridley

Live Oak

Colusa

Williams

Clearlake

Lincoln

3R23R3 20A1 11B3 11B2 32P3 34N3 5J4 5Q4 12P2 24D2 24D3 27G1 29Q3 29N4 10E1 13C3 13C4 28M2 28M3 31M1 2J1 1N1 1N2 18C1 15C2 24E1 30H2 29N1 29N2 28J5 28J1 12A3 12A4 1R3 4G2 4G3 7C1 18C1 24B1 33M1 34Q2 34Q3 7E1 18R5 18R6 18L1 8Q1 22D4 13Q3 35B2 2E1 18D1 18D2 35L1 9H2 9H5 10A1 24A3 5B1 5B4 14H4 14H5 14H3 14Q3 35P1 35P2

## 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 current year than in the previous year.

Note 2: Statistical analysis is based on the number of monitored wells 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 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 water 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 FALL 2010 TO FALL 2011

## DEEP AQUIFER ZONE

(Wells generally greater 600 ft bgs)

**PLATE 3D-A**

Date: March 2012

BY: G. Gordon

Location: R:\Sections\DCM\CHANGE_MAP\2011\

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