**Shasta County - Redding GW Basin**

| | |
|---|---|
| Maximum Increase GWE (ft) | NA |
| Maximum Decrease GWE (ft) | -2.4 |
| Average Change GWE (ft) | -1.4 |
| Average Well Depth (ft) | 458 |
| Number of Wells Monitored | 3 |

**Tehama County - Redding GW Basin**

| | |
|---|---|
| Maximum Increase GWE (ft) | NA |
| Maximum Decrease GWE (ft) | -10.6 |
| Average Change GWE (ft) | -3.2 |
| Average Well Depth (ft) | 426 |
| Number of Wells Monitored | 6 |

**Tehama County - Sacramento Valley GW Basin**

| | |
|---|---|
| Maximum Increase GWE (ft) | 0.4 |
| Maximum Decrease GWE (ft) | -9.4 |
| Average Change GWE (ft) | -4.3 |
| Average Well Depth (ft) | 399 |
| Number of Wells Monitored | 23 |

**Glenn County - Sacramento Valley GW Basin**

| | |
|---|---|
| Maximum Increase GWE (ft) | 0.6 |
| Maximum Decrease GWE (ft) | -32.8 |
| Average Change GWE (ft) | -6.6 |
| Average Well Depth (ft) | 408 |
| Number of Wells Monitored | 33 |

**Colusa County - Sacramento Valley GW Basin**

| | |
|---|---|
| Maximum Increase GWL(ft) | 0.6 |
| Maximum Decrease GWE (ft) | -20.4 |
| Average Change GWE (ft) | -3.8 |
| Average Well Depth (ft) | 370 |
| Number of Wells Monitored | 20 |

**Butte County - Sacramento Valley GW Basin**

| | |
|---|---|
| Maximum Increase GWE (ft) | 6.0 |
| Maximum Decrease GWE (ft) | -13.6 |
| Average Change GWE (ft) | -3.3 |
| Average Well Depth (ft) | 488 |
| Number of Wells Monitored | 18 |

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

| | |
|---|---|
| Maximum Increase GWE (ft) | 6.0 |
| Maximum Decrease GWE (ft) | -32.8 |
| Average Change GWE (ft) | -4.6 |
| Average Well Depth (ft) | 415 |
| Number of Wells Monitored | 103 |

- 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, Paradise, Chico, Orland, Willows, Oroville, Gridley, Live Oak, Colusa, Williams

## 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 intermediate aquifer zone at similar dates of different years. These wells include those that have screened intervals and well depths that are generally greater than 200 ft and less 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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DEPARTMENT OF WATER RESOURCES
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# NORTHERN SACRAMENTO VALLEY
# CHANGE IN GROUNDWATER ELEVATION MAP
# SUMMER 2011 TO SUMMER 2012
## INTERMEDIATE AQUIFER ZONE
(Wells generally greater than 200 ft and less than 600 ft bgs)

**PLATE 2I-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_SummerArcMap\Intermediate_Wells_Summer_2011-2012.mxd