Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	5.8
Maximum Decrease GWE (ft)	-4.9
Average Change GWE (ft)	-0.9
Average Well Depth (ft)	131
Number of Wells Monitored	13

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-4.8
Average Change GWE (ft)	-2.6
Average Well Depth (ft)	129
Number of Wells Monitored	5

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.1
Maximum Decrease GWE (ft)	-16.2
Average Change GWE (ft)	-3.4
Average Well Depth (ft)	120
Number of Wells Monitored	50

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.9
Maximum Decrease GWE (ft)	-16.2
Average Change GWE (ft)	-4.4
Average Well Depth (ft)	115
Number of Wells Monitored	56

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	1.4
Maximum Decrease GWE (ft)	-5.8
Average Change GWE (ft)	-1.2
Average Well Depth (ft)	132
Number of Wells Monitored	24

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.3
Maximum Decrease GWE (ft)	-13.4
Average Change GWE (ft)	-2.4
Average Well Depth (ft)	136
Number of Wells Monitored	42

Summary Results for Spring 2013 to Spring 2014 Change in Groundwater Elevation

Maximum Increase GWE (ft)	5.8
Maximum Decrease GWE (ft)	-16.2
Average Change GWE (ft)	-3.4
Average Well Depth (ft)	125
Number of Wells Monitored	190

- 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

Gridley

Oroville

Live Oak

Yuba City

Williams

Colusa

Clearlake

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. 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

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NORTHERN SACRAMENTO VALLEY CHANGE IN GROUNDWATER ELEVATION MAP SPRING 2013 TO SPRING 2014

SHALLOW AQUIFER ZONE

(Well depths less than 200 ft bgs)

PLATE 1S-A

Date: April 2014

BY: G. Gordon

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2014\Spring_2014\S14_ShallowShallowSpring2013to2014.mxd

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

Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	1.1
Maximum Decrease GWE (ft)	-8.3
Average Change GWE (ft)	-3.7
Average Well Depth (ft)	132
Number of Wells Monitored	13

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-11.6
Average Change GWE (ft)	-6.1
Average Well Depth (ft)	112
Number of Wells Monitored	4

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	2.0
Maximum Decrease GWE (ft)	-38.6
Average Change GWE (ft)	-10.8
Average Well Depth (ft)	120
Number of Wells Monitored	42

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	1.0
Maximum Decrease GWE (ft)	-46.5
Average Change GWE (ft)	-12.6
Average Well Depth (ft)	111
Number of Wells Monitored	45

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	0.4
Maximum Decrease GWE (ft)	-25.3
Average Change GWE (ft)	-7.9
Average Well Depth (ft)	138
Number of Wells Monitored	20

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	4.3
Maximum Decrease GWE (ft)	-23.8
Average Change GWE (ft)	-7.6
Average Well Depth (ft)	134
Number of Wells Monitored	29

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

Maximum Increase GWE (ft)	4.3
Maximum Decrease GWE (ft)	-46.5
Average Change GWE (ft)	-9.6
Average Well Depth (ft)	123
Number of Wells Monitored	153

- 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

Willows

Chico

Oroville

Gridley

Live Oak

Colusa

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.

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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.

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NORTHERN SACRAMENTO VALLEY CHANGE IN GROUNDWATER ELEVATION MAP SPRING 2004 TO SPRING 2014

SHALLOW AQUIFER ZONE

(Well depths less than 200 ft bgs)

PLATE 1S-B

Date: April 2014

BY: G. Gordon

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2014\S14_Shallow\Spring_2014\S14_ShallowSpring2004to2014.mxd

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

Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	1
Maximum Decrease GWE (ft)	-2.1
Average Change GWE (ft)	-0.8
Average Well Depth (ft)	387
Number of Wells Monitored	5

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	7.1
Maximum Decrease GWE (ft)	-4.1
Average Change GWE (ft)	0.1
Average Well Depth (ft)	337
Number of Wells Monitored	4

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	6.4
Maximum Decrease GWE (ft)	-16.5
Average Change GWE (ft)	-2.2
Average Well Depth (ft)	420
Number of Wells Monitored	26

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	11.4
Maximum Decrease GWE (ft)	-9.4
Average Change GWE (ft)	-2.0
Average Well Depth (ft)	430
Number of Wells Monitored	40

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	3.8
Maximum Decrease GWE (ft)	-14.6
Average Change GWE (ft)	-3.5
Average Well Depth (ft)	488
Number of Wells Monitored	22

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	2.0
Maximum Decrease GWE (ft)	-21.0
Average Change GWE (ft)	-4.7
Average Well Depth (ft)	415
Number of Wells Monitored	27

Summary Results for Spring 2013 to Spring 2014 Change in Groundwater Elevation

Maximum Increase GWE (ft)	11.4
Maximum Decrease GWE (ft)	-21.0
Average Change GWE (ft)	-2.9
Average Well Depth (ft)	431
Number of Wells Monitored	120

- 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

Yuba City

Clearlake

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.

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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.

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NORTHERN SACRAMENTO VALLEY CHANGE IN GROUNDWATER ELEVATION MAP SPRING 2013 TO SPRING 2014

INTERMEDIATE AQUIFER ZONE

(Well depths generally greater than 200 ft and less than 600 ft deep bgs)

PLATE 1I-A

Date: April 2014

BY: G. Gordon

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2014\Spring_20143\14_Intermediate\Intermediate\Spring2013to2014.mxd

Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	11
Maximum Decrease GWE (ft)	-4.4
Average Change GWE (ft)	-0.5
Average Well Depth (ft)	326
Number of Wells Monitored	4

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	0.4
Maximum Decrease GWE (ft)	-11.4
Average Change GWE (ft)	-4.6
Average Well Depth (ft)	292
Number of Wells Monitored	4

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-16.2
Average Change GWE (ft)	-7.9
Average Well Depth (ft)	423
Number of Wells Monitored	16

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-54.5
Average Change GWE (ft)	-21.7
Average Well Depth (ft)	427
Number of Wells Monitored	25

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	0.3
Maximum Decrease GWE (ft)	-49.9
Average Change GWE (ft)	-15.4
Average Well Depth (ft)	433
Number of Wells Monitored	18

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	0.3
Maximum Decrease GWE (ft)	-25.6
Average Change GWE (ft)	-12.8
Average Well Depth (ft)	496
Number of Wells Monitored	12

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

Maximum Increase GWE (ft)	11.0
Maximum Decrease GWE (ft)	-54.5
Average Change GWE (ft)	-14.1
Average Well Depth (ft)	426
Number of Wells Monitored	79

- 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

Willows

Williams

Chico

Paradise

Oroville

Gridley

Live Oak

Colusa

Yuba City

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.

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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.

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NORTHERN SACRAMENTO VALLEY CHANGE IN GROUNDWATER ELEVATION MAP SPRING 2004 TO SPRING 2014

INTERMEDIATE AQUIFER ZONE

(Well depths generally greater than 200 ft and less than 600 ft deep bgs)

PLATE 1I-B

Date: April 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\Spring_2014\S14_IntermediateIntermediateSpring2004to2014.mxd

Shasta County - Redding GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-0.1
Average Change GWE (ft)	-0.1
Average Well Depth (ft)	917
Number of Wells Monitored	1

Tehama County - Redding GW Basin

Maximum Increase GWE (ft)	1.2
Maximum Decrease GWE (ft)	NA
Average Change GWE (ft)	1.2
Average Well Depth (ft)	876
Number of Wells Monitored	1

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-10.7
Average Change GWE (ft)	-4.2
Average Well Depth (ft)	886
Number of Wells Monitored	15

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-14.5
Average Change GWE (ft)	-9.1
Average Well Depth (ft)	1053
Number of Wells Monitored	22

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	1.6
Maximum Decrease GWE (ft)	-14.2
Average Change GWE (ft)	-3.9
Average Well Depth (ft)	799
Number of Wells Monitored	9

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	1.1
Maximum Decrease GWE (ft)	-10.9
Average Change GWE (ft)	-4.8
Average Well Depth (ft)	902
Number of Wells Monitored	15

Summary Results for Spring 2013 to Spring 2014
Change in Groundwater Elevation

Maximum Increase GWE (ft)	1.6
Maximum Decrease GWE (ft)	-14.5
Average Change GWE (ft)	-5.9
Average Well Depth (ft)	936
Number of Wells Monitored	63

- 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
Willows
Oroville
Gridley
Live Oak
Colusa
Yuba City
Williams
Clearlake

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.

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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.

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NORTHERN SACRAMENTO VALLEY
CHANGE IN GROUNDWATER ELEVATION MAP
SPRING 2013 TO SPRING 2014
DEEP AQUIFER ZONE
(Well depths deeper than 600 ft bgs)

PLATE 1D-A

Date: April 2014

BY: G. Gordon

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2014\Spring_2014\S14_DeepDeepSpring2013t2014.mxd

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	NA

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	NA

Tehama County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-6.1
Average Change GWE (ft)	-5.3
Average Well Depth (ft)	832
Number of Wells Monitored	8

Glenn County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-49.4
Average Change GWE (ft)	-28.2
Average Well Depth (ft)	979
Number of Wells Monitored	5

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	NA
Maximum Decrease GWE (ft)	-26.9
Average Change GWE (ft)	-12.6
Average Well Depth (ft)	758
Number of Wells Monitored	6

Butte County - Sacramento Valley GW Basin

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-20.8
Average Change GWE (ft)	-14.6
Average Well Depth (ft)	857
Number of Wells Monitored	5

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

Maximum Increase GWE (ft)	NA
Maximum Decrease GWE (ft)	-49.4
Average Change GWE (ft)	-13.8
Average Well Depth (ft)	849
Number of Wells Monitored	24

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

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
Yuba City
Clearlake

NOTES

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NORTHERN SACRAMENTO VALLEY CHANGE IN GROUNDWATER ELEVATION MAP SPRING 2004 TO SPRING 2014

DEEP AQUIFER ZONE

(Well depths greater than 600 ft bgs)

PLATE 1D-B

Date: April 2014

BY: G. Gordon

Path: Z:\GW_GIS\Projects\NRO_ChangeMaps\2014\Spring_2014\S14_DeepDeepSpring2004to2014.mxd