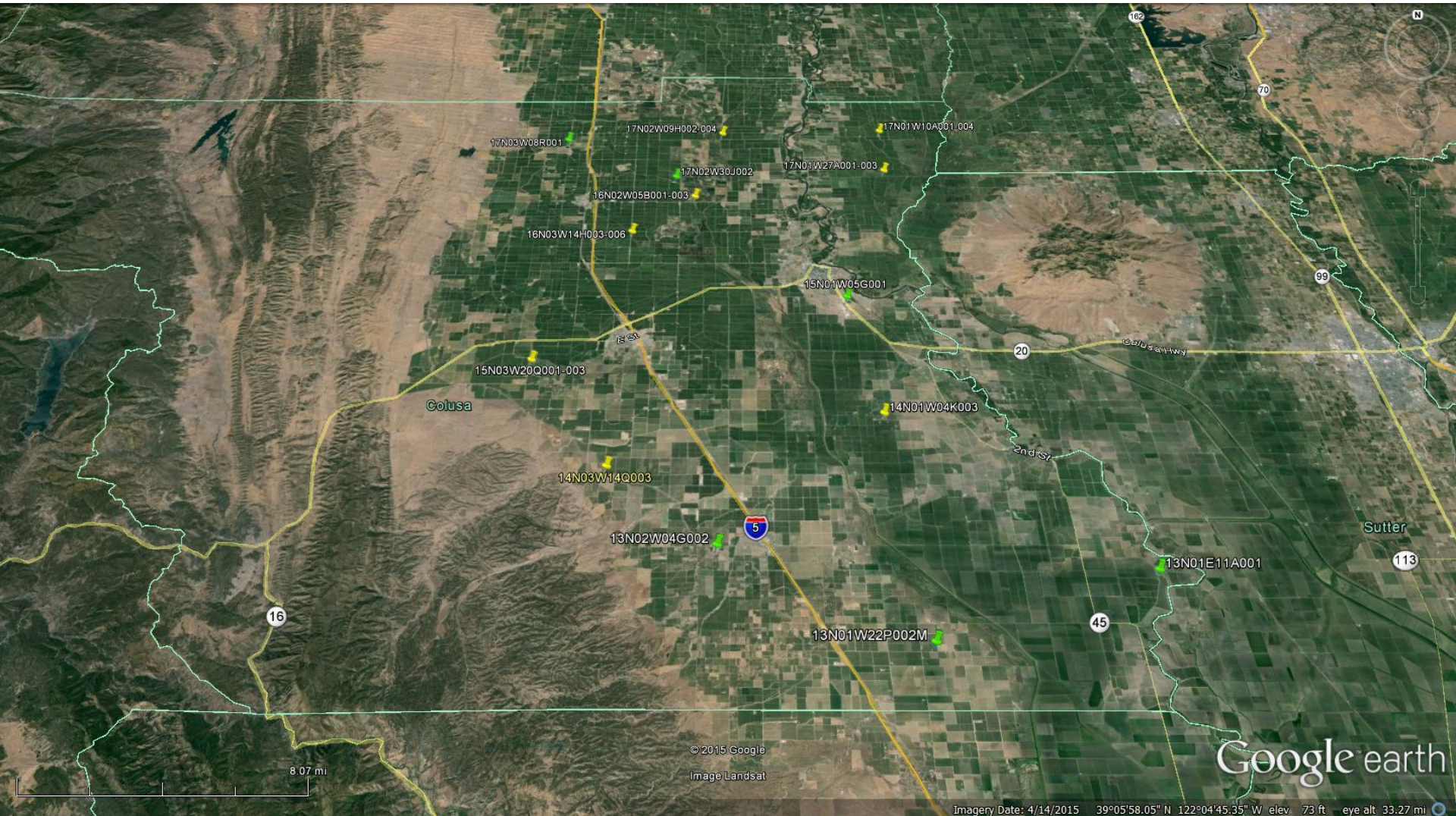


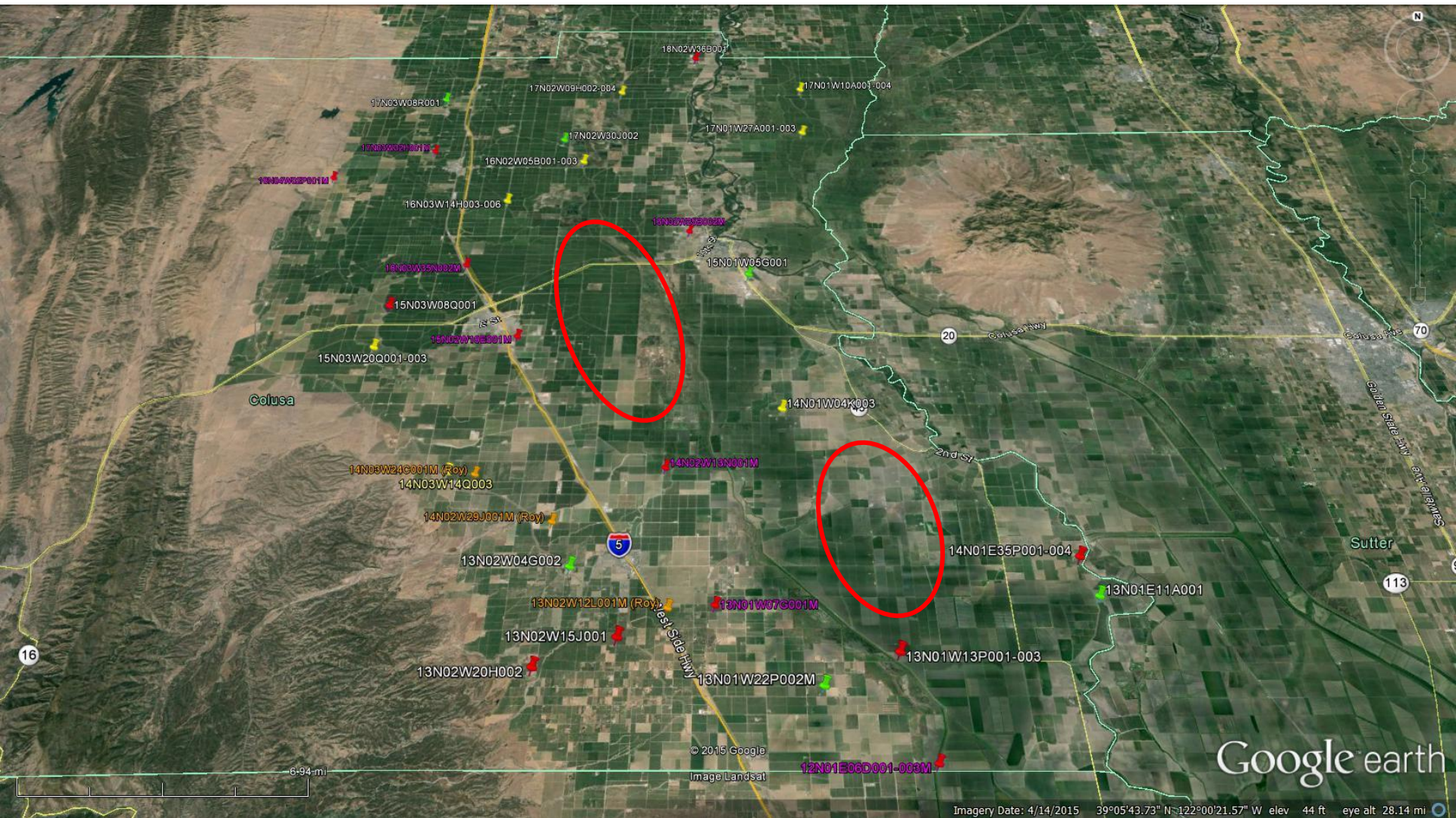
Colusa County Monitoring Network - GMP & CASGEM



This is a Google Earth aerial view of a region in Colusa, California. The map displays a complex grid of land parcels, many of which are labeled with alphanumeric codes such as '15N03W08Q001', '14N03W14Q003', and '13N02W04G002'. These labels likely represent specific land ownership or survey data. The terrain is a mix of green agricultural fields and brown, arid hills. Major roads are visible, including Highway 16 on the left and Highway 5 running vertically through the center. The 'Colusa' city name is labeled in the upper left. A scale bar at the bottom left indicates a distance of 1.94 miles. The Google Earth logo and interface elements are visible at the bottom right, showing the imagery date as 4/14/2015 and the current location coordinates as 39°05'43.73" N, 122°00'21.57" W.

Orange Pins = Wells from Roy Hull's Presentation (Red Zone Wells)

Data gaps



Colusa County Monitoring Network, Southwest Area

SOUTH WEST COUNTY

Groundwater elevations, ft below ground surface

	GMP or CASGEM	State Well Number	CASGEM WELL ID	Depth	Perf	Basin	Type	Timing of Measurement	1977 Critical	1992 Critical	2004 Normal	2012 Below Norm	2013 Critical	2014 Critical	2015 Critical
1	GMP	13N02W04G001	390088N1220877W001	Conf	Confidential	Colusa	Obs	Spring	120.7	89.4	101.1	129.53	130.4	NM	104
								Fall	135.3	105.1	104.4	146.5	NM	NM	
		13N02W04G003	390088N1220877W003	Conf	Confidential	Colusa	Obs	Spring	116.9	85.2	57	70.52	72	80.8	85.5
								Fall	129.7	99	61.9	73.3	79.1	90.8	
		13N02W04G004	390088N1220877W004	Conf	Confidential	Colusa	Obs	Spring	NM	65.7	50.4	66.83	69.1	114.81	78.1
								Fall	NM	72.2	55.6	70	74.2	82.5	
2	CASGEM	14N03W14Q003	390576N122158W001	704	390'; 480'; 500';	Colusa	Irr	Spring	NM	NM	103.9	116.5	116.6	130.8	158.6
					590'; 614'; 685'			Fall	NM	143.2	109.9	122.9	127.2	169.4	
3	CASGEM	15N03W20Q001	391330N1222165W001	424'	370'; 410'	Colusa	Obs	Spring	NM	NM	NM	20.46	21.58	22.53	24.43
								Fall	NM	NM	NM	21.37	22.36	23.85	
		15N03W20Q002	391330N1222165W002	180'	130'; 160'	Colusa	Obs	Spring	NM	NM	NM	14.29	13.99	13.29	13.77
								Fall	NM	NM	NM	15.51	16.09	16.04	
		15N03W20Q003	391330N1222165W003	82'	30'; 80'	Colusa	Obs	Spring	NM	NM	NM	14.35	14.09	13.29	13.86
								Fall	NM	NM	NM	14.35	15.89	15.81	
4	GMP	15N03W08Q001	391614N1222138W001	Conf	Confidential	Colusa	Unk	Spring	NM	NM	NM	5.92	5.42	4.62	4.72
								Fall	NM	NM	NM	6.32	5.62	4.72	
5	New Well	13N02W15J001	389763N1220616W001	Conf	Confidential	Colusa	Res	Spring	159.5	126.8	115.7	135.93	144.6	165.6	NM
								Fall	164.5	143.6	122.7	154.3	161.8	NM	
6	New Well	13N02W20H002	389634N1221009W001	Conf	Confidential	Colusa	Res	Spring	NM	NM	NM	148.5	150.5	155.1	160.7
								Fall	NM	NM	NM	150.2	152.7	NM	
7	New - Roy	14N03W24C001	390569N1221435W001	Conf	Confidential	Colusa	Res	Spring	122	93.4	86.7	103.1	107.2	112	125.1
								Fall	122.2	98.9	86.6	106.7	110.3	123.6	
8	New - Roy	14N02W29J001	390317N1220991W001	Conf	Confidential	Colusa	Irr	Spring	98	75	75.7	97.17	100.3	111.5	144.5
								Fall	101.5	80.2	78.7	104.5	110.6	156.1	
9	New Well	13N02W12L001	389898N1220375W001	Conf	Confidential	Colusa	Irr	Spring	119.7	56.5	59.2	93.1	98.9	109.1	113.9
								Fall	135.8	86.3	62.3	113.2	118.1	120.4	

9 wells

2 multi-completion wells

Red numbers are the lowest levels

- Data gaps, 1977, 1992, 2004

Colusa County Monitoring Network, Southeast Area

SOUTH EAST COUNTY

	GMP or CASGEM	State Well Number	CASGEM WELL ID	Depth	Perf	Basin	Type	Timing of Measurement	1977 Critical	1992 Critical	2004 Normal	2012 Below Norm	2013 Critical	2014 Critical	2015 Critical
1	GMP/CASG	15N01W05G001	391826N1219935W01	140'	75'; 140'	Colusa	Res	Spring Fall	11 14.5	7.3 14.8	2.7 9.9	8.1 11.9	7.2 7.2	9.1 9.1	7.6
2	CASGEM	14N01W04K003	390930N1219767W01	73'	46'; 70'	Colusa	Irr	Spring Fall	11 8	NM 6.1	3.8 5.8	4 6.5	3.7 6.5	4.5 8.5	4.1
3	New Well	14N01E35P001	390124N1218291W01	1039	985'-995'	Colusa	Obs	Spring Fall	NM NM	NM NM	NM NM	18.99 25.82	20.58 28.21	24.33 33.39	26.12
		14N01E35P002	390124N1218291W02	736'	545'; 610'; 695'	Colusa	Obs	Spring Fall	NM NM	NM NM	NM NM	19.56 25.56	19.93 27.69	23.01 29.72	22.12
		14N01E35P003	390124N1218291W03	275'	135'; 145'; 215'; 225'	Colusa	Obs	Spring Fall	NM NM	NM NM	NM NM	17.01 19.43	17.43 18.96	17.03 20.16	18.08
		14N01E35P004	390124N1218291W04	71'	50'-60'	Colusa	Obs	Spring Fall	NM NM	NM NM	NM NM	16.45 20.04	16.74 17.63	16.44 18.78	17.12
4	GMP	13N01E11A001	389937N1218240W01	145 (?) Conf	Confidential	Colusa	Res	Spring Fall	7.8 NM	4.3 7.4	4.8 6.9	5.62 7.2	6.3 7.7	5.9 8.6	6.6
5	New Well	13N01W13P001	389694N1219259W01	885'	865'; 875'	Colusa	Obs	Spring Fall	NM NM	NM NM	4.7 14.6	9.62 31.61	13.67 34.61	21.97 46.25	22.89
		13N01W13P002	389694N1219259W02	480'	410'; 420'; 450'; 456'	Colusa	Obs	Spring Fall	NM NM	NM NM	14.9 8.2	7.53 27.07	13.72 29.57	17.27 40.19	17.67
		13N01W13P003	389694N1219259W03	355'	271'; 278'	Colusa	Obs	Spring Fall	NM NM	NM NM	3.1 9.3	8.65 20.18	10.49 21.33	13.79 28.33	13.27
6	GMP	13N01W22P002	389553N1219631W01	Conf	Confidential	Colusa	Irr	Spring Fall	53.5 72.6	29.6 46.4	36.2 27.7	26.8 29.5	24.9 37.1	33.3 NM	36.8
7	New Well	12N01E06D002	389249N1219140W01	729'	710'; 720'	Colusa	Obs	Spring Fall	NM NM	NM NM	5 17.9	9.25 29.25	12.31 36.87	23.03 50.37	23.17
8	New Well	13N01W07G001	389916N1220141W01	Conf	Confidential	Colusa	Irr	Spring Fall	81 97.5	52.8 73.4	47.5* 52.6	54.02 68.6	60.6 73.5	64.7 89.3	78.1
9	New Well	15N02W19E001	391401N1221325W01	Conf	Confidential	Colusa	Irr	Spring Fall	32 28	10.2 14.5	8.3 13.2	9.2 13.7	7.85 12.35	7.85 14.97	8.95
10	New Well	14N02W13N001	390602N1220411W01	Conf	Confidential	Colusa	Irr	Spring Fall	37.7 NM	20.7 43.7	31.1 24.7	27 41.2	31.2 40.6	39.5 48	40.7

10 wells

2 multi-completion wells

Red numbers are the lowest levels

- Data gaps, 1977, 1992, 2004

Colusa County Monitoring Network, Northeast Area

NORTH EAST COUNTY

	GMP or CASGEM	State Well Number	CASGEM WELL ID	Depth	Perf	Basin	Type	Timing of Measurement	1977 Critical	1992 Critical	2004 Normal	2012 Below Norm	2013 Critical	2014 Critical	2015 Critical
1	GMP	17N02W30J002	392954N1221212W001	Conf	Confidential	Colusa	Res	Spring	6.8	3.2	3.5	4.5	5.5	5.2	NM
								Fall	30.5	11.3	14.7	12.3	13.9	19.1	
2	GMP	18N02W36B001	393772N1220298W001	Conf	Confidential	Colusa	Irr	Spring	11.4	10.7	5.6	5.51	12.1	13.5	11.8
								Fall	13.4	13	10	13.8	14.8	17.4	
3	CASGEM	17N02W09H002	393417N1220838W001	806'	779'; 800'	Colusa	Obs	Spring	NM	NM	3.7	5.85	6.86	8.34	9.04
								Fall	NM	NM	13.44	17.41	23.01	45.56*	
		17N02W09H003	393417N1220838W002	578'	470'; 480'; 510'; 520'	Colusa	Obs	Spring	NM	NM	2.96	5.45	6.14	7.8	7.66
								Fall	NM	NM	13.76	18.79	23.62*	60.03*	
		17N02W09H004	393417N1220838W003	302'	250'; 260'	Colusa	Obs	Spring	NM	NM	2.34	5.22	5.15	4.7	5.42
								Fall	NM	NM	13.12	14.62	16.12	21.73	
4	CASGEM	17N01W10A001	393437N1219519W001	828'	770'; 780'; 790'; 800'	W Butte	Obs	Spring	NM	NM	NM	1.36	1.9	3.03	3.85
								Fall	NM	NM	NM	7.99	8.87	14.68	
		17N01W10A002	393437N1219519W002	475'	380'; 390'; 415'; 425'	W Butte	Obs	Spring	NM	NM	NM	3.81	5.01	5.76	8.56
								Fall	NM	NM	NM	8.2	11.81	19.66	
		17N01W10A003	393437N1219519W003	204'	148'; 158'	W Butte	Obs	Spring	NM	NM	NM	2.65	4.63	3.44	7.24
								Fall	NM	NM	NM	5.87	6.95	9.96	
		17N01W10A004	393437N1219519W004	117'	88'; 98'	W Butte	Obs	Spring	NM	NM	NM	2.7	4.69	3.51	6.27
								Fall	NM	NM	NM	4.57	6.03	6.69	
5	CASGEM	17N01W27A001	393010N1219528W001	581'	430'; 440'; 500'; 510'	W Butte	Obs	Spring	NM	NM	NM	10.07	10.86	11.17	12.29
								Fall	NM	NM	NM	16.53	19.99	21.99	
		17N01W27A002	393010N1219528W002	285'	260'; 270'	W Butte	Obs	Spring	NM	NM	NM	10.16	11.16	10.24	11.53
								Fall	NM	NM	NM	16.26	12.69	20.93	
		17N01W27A003	393010N1219528W003	203'	160'; 170'	W Butte	Obs	Spring	NM	NM	NM	11.15	11.97	11.22	12.33
								Fall	NM	NM	NM	12.67	13.43	13.48	
6	CASGEM	16N02W05B001	392753N1221057W001	797'	730'; 750'	Colusa	Obs	Spring	NM	NM	8.16	11.27	13.38	15.74	17.34
								Fall	NM	NM	17.49	22.64	48.66*	46.69*	
		16N02W05B002	392753N1221057W002	535'	462'; 472'	Colusa	Obs	Spring	NM	NM	10.6	12.92	14.6	17.22	17.16
								Fall	NM	NM	20.3	26.34	27.76*	35.56*	
		16N02W05B003	392753N1221057W003	301'	174'; 184'; 246'; 256'	Colusa	Obs	Spring	NM	NM	13.44	8.67	10.62	9.77	9.66
								Fall	NM	NM	19.86	16.99	18.97	25.73	
7	New Well	16N02W25B002	392165N1220312W001	Conf	Confidential	Colusa	Res	Spring	15.1	13.4	9.3	12.2	14.4	14	13.6
								Fall	18.8	20.4	15.4	18.9	18.5	26.2	

7 wells

4 multi-completion wells

Red numbers are the lowest levels

- Many data gaps, 1977, 1992, 2004

Colusa County Monitoring Network, Northwest Area

NORTH WEST COUNTY

	GMP or CASGEM	State Well Number	CASGEM WELL ID	Depth	Perf	Basin	Type	Timing of Measurement	1977 Critical	1992 Critical	2004 Normal	2012 Below Norm	2013 Critical	2014 Critical	2015 Critical	
1	GMP/CASG	17N03W08R001	393352N1222124W001	151'	125'; 030'	Colusa	Res	Spring	16.3	19.8	14.8	16.29	16.2	15.9	15.6	
								Fall	13.2	15.3	11.5	15.4	15.2	15.7		
2	CASGEM	16N03W14H003	392414N1221535W001	1481'	1370'; 1380'; 1410'; 1420'	Colusa	Obs	Spring	NM	NM	NM	NM	NM	NM	NM	Artesian - all questionable measurements
								Fall	NM	NM	NM	NM	NM	NM	NM	
		16N03W14H004	392414N1221535W002	1236'	1140'; 1150'; 1170'; 1180'	Colusa	Obs	Spring	NM	NM	NM	0.29	1.39	3.19	4.74	
								Fall	NM	NM	NM	0.69	1.89	4.07		
		16N03W14H005	392414N1221535W003	775'	720'; 730'	Colusa	Obs	Spring	NM	NM	NM	15.17	18.3	21.51	24.11	
								Fall	NM	NM	NM	27.64	30.74	35.35		
		16N03W14H006	392414N1221535W004	378'	295'; 305'	Colusa	Obs	Spring	NM	NM	NM	6.82	7.31	10.24	9.29	
								Fall	NM	NM	NM	17.73	17.73	24.62		
3	New Well	16N03W35N002	391914N1221719W001	Conf	Confidential	Colusa	Res	Spring	8.8	7.9	5.9	7	7.3	8.7	8.1	
								Fall	12.2	13.2	12.5	13.2	13.4	15.7		
4	New Well	16N04W02P001	392629N1222754W001	Conf	Confidential	Colusa	Stock	Spring	19.8	19.2	13.8	18.31	18.6	19.2	17.6	
								Fall	19.5	17.8	14.7	17.2	17.4	18.6		
5	New Well	17N03W32H001	392870N1222095W001	Conf	Confidential	Colusa	Res	Spring	7.2	5.4	6.2	4.53	6.2	5.9	5.2	
								Fall	6	5.6	5.9	5.7	5.8	6.2		
6	New Well	17N03W08R001	393352N1222124W001	151'	125'; 130'	Colusa	Res	Spring	14	19.8*	14.8	16.29	16.2	15.9	15.6	
								Fall	13.2	15.3	11.5	15.4	15.2	15.7		

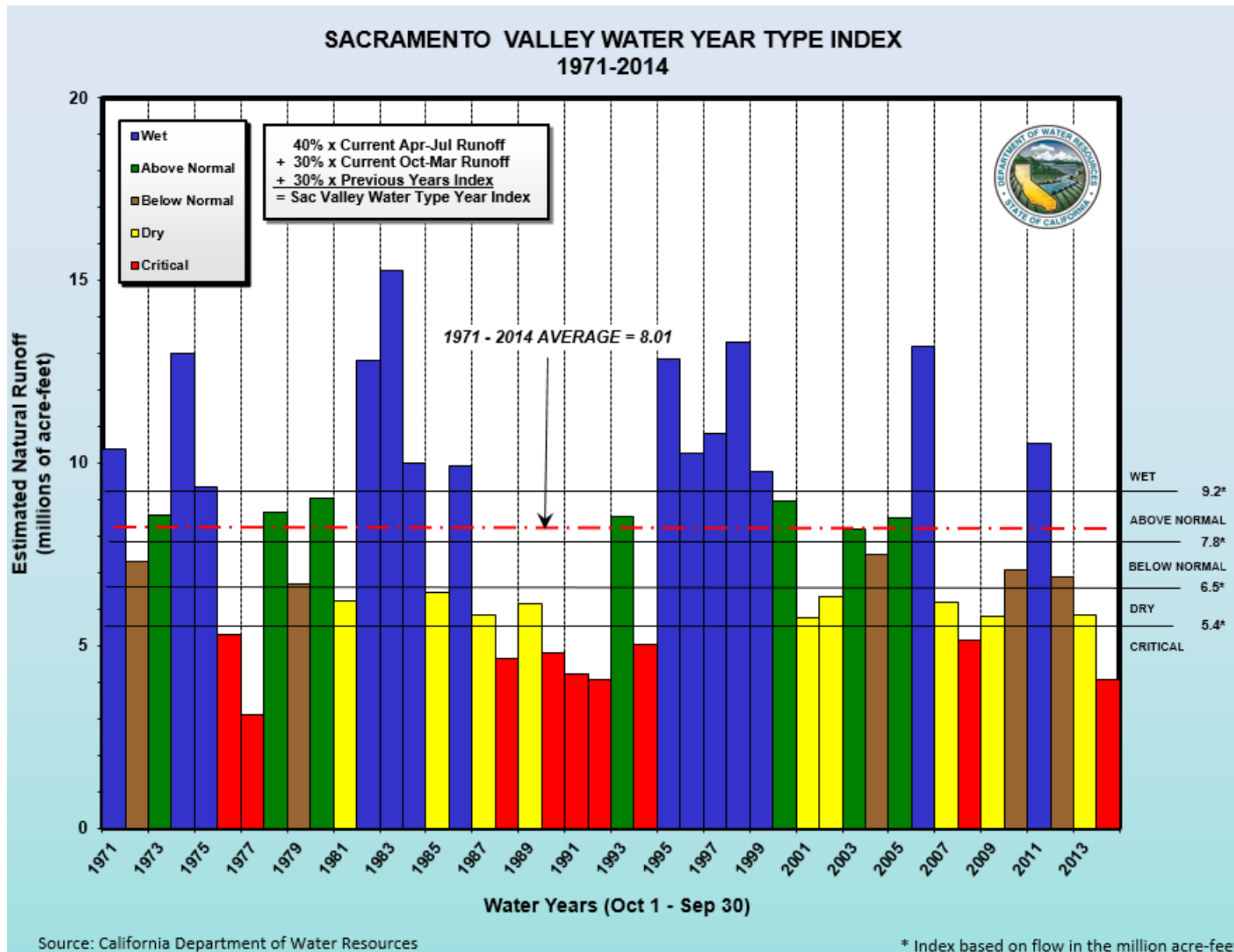
6 wells

1 multi-completion well

Red numbers are the lowest levels

Some data gaps, 1977, 1992, 2004

Water Year Index 1971-2014



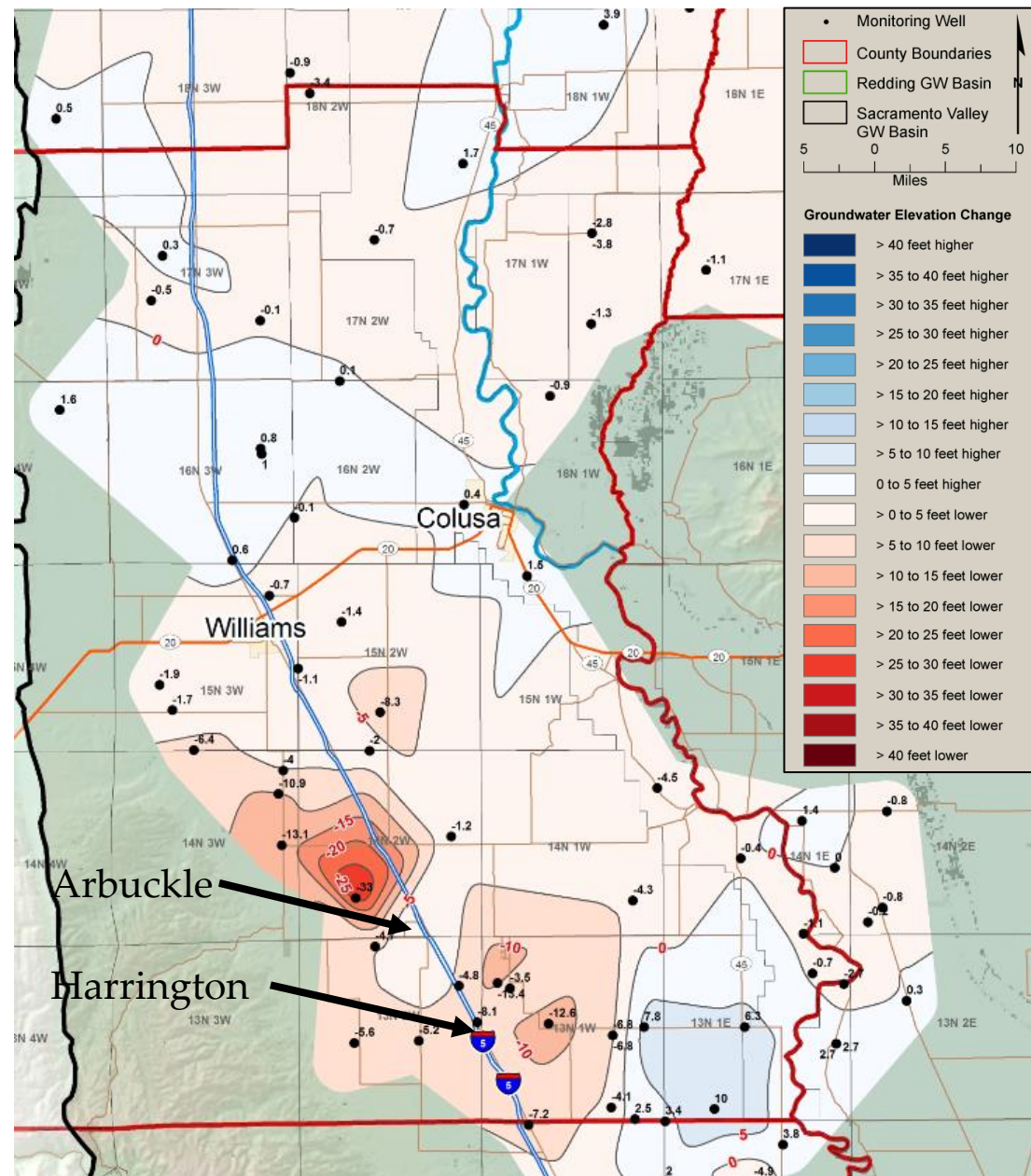
Groundwater Elevation Change Map Colusa County

Spring 2014 to 2015

Average:
100 to 450 feet
below ground surface

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	10.0
Maximum Decrease GWE (ft)	-33.0
Average Change GWE (ft)	-3.0
Average Well Depth (ft)	290
Number of Wells Monitored	51



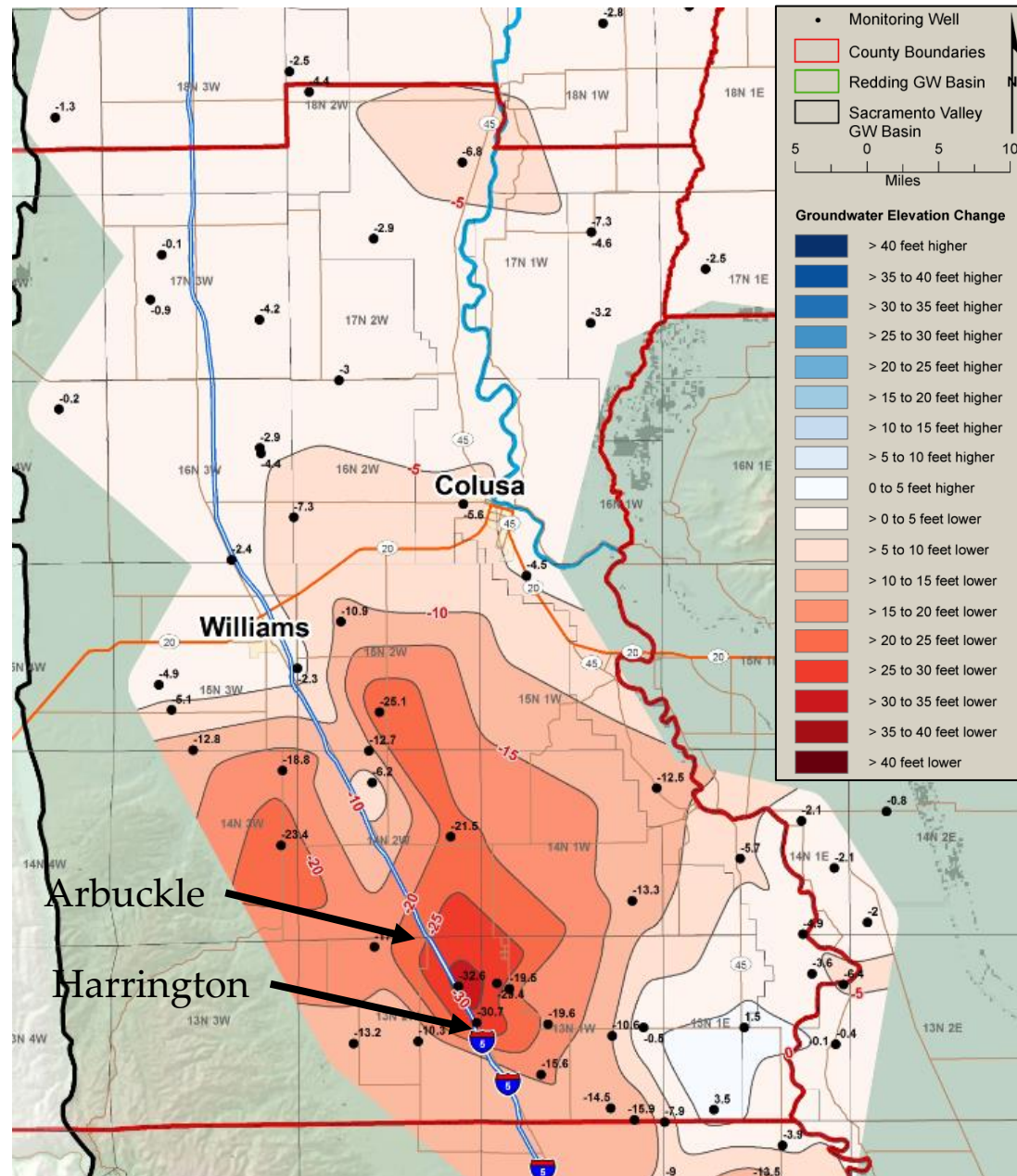
Groundwater Elevation Change Map Colusa County

Spring 2011 to 2015

Average:
100 to 450 feet
below ground surface

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	3.5
Maximum Decrease GWE (ft)	-32.6
Average Change GWE (ft)	-9.8
Average Well Depth (ft)	288
Number of Wells Monitored	48



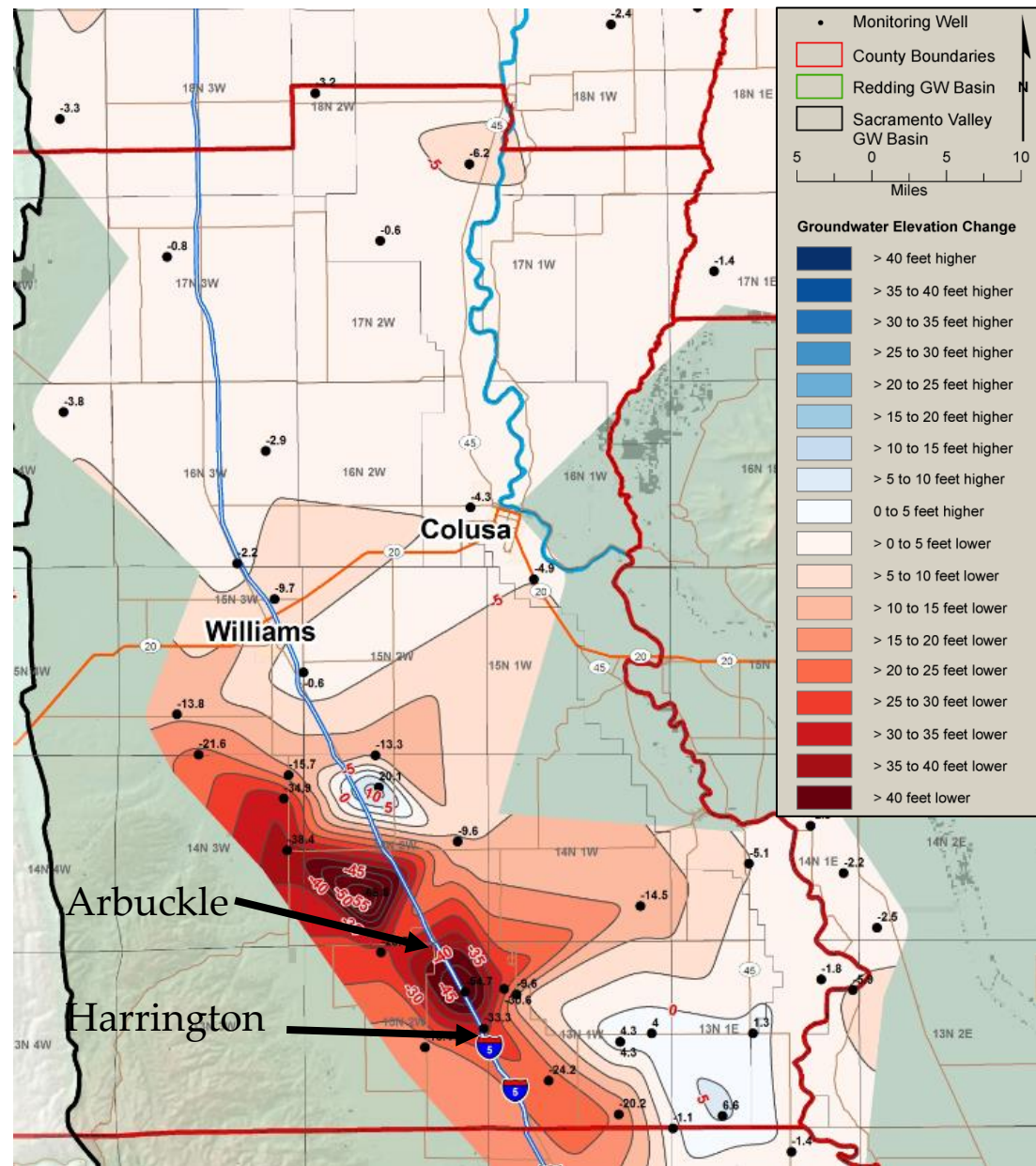
Groundwater Elevation Change Map Colusa County

Spring 2004 to 2015

Average:
100 to 450 feet
below ground surface

Colusa County - Sacramento Valley GW Basin

Maximum Increase GWL(ft)	20.1
Maximum Decrease GWE (ft)	-68.8
Average Change GWE (ft)	-12.6
Average Well Depth (ft)	276
Number of Wells Monitored	36

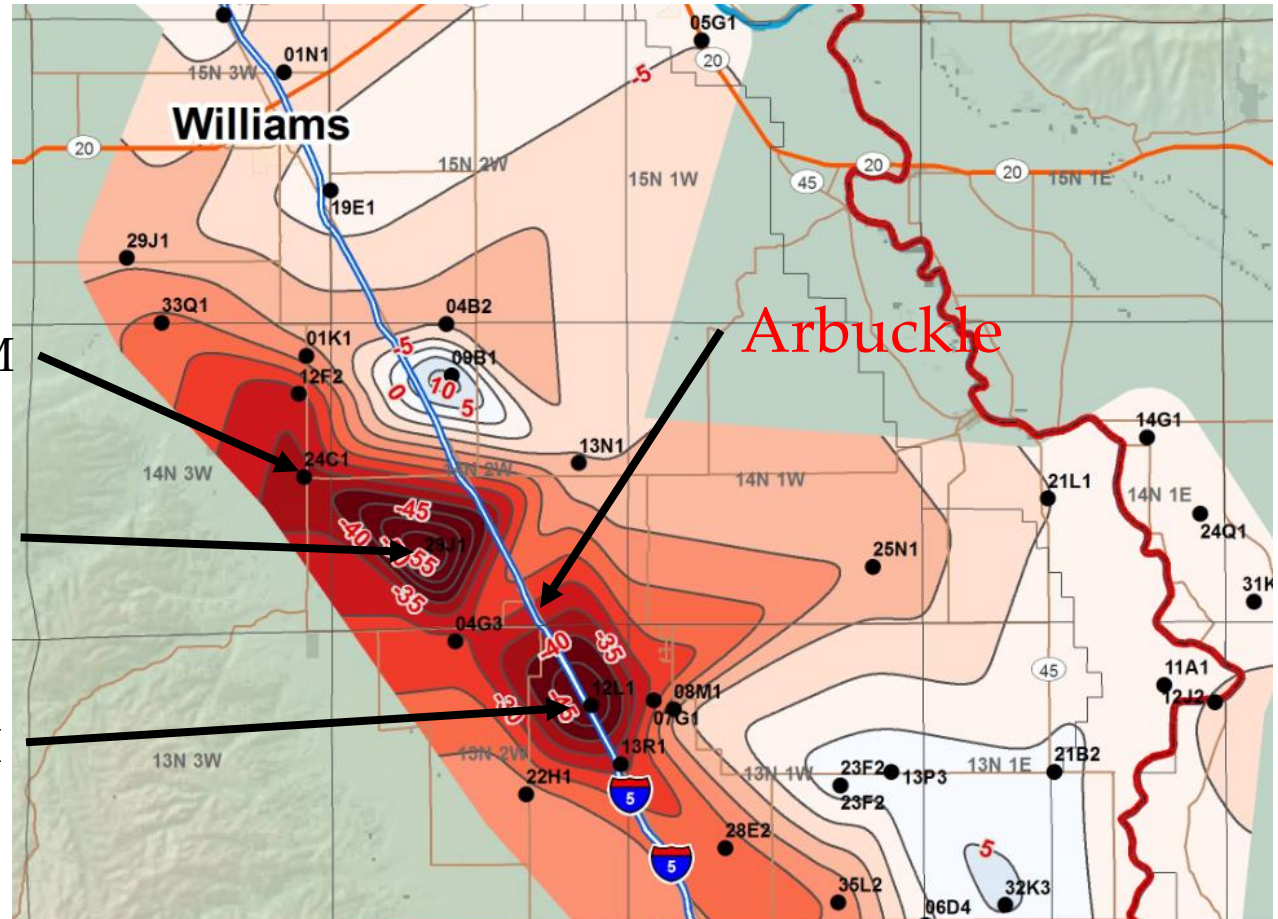


Hydrographs

#3 – 14N03W24C001M

#2 – 14N02W29J001M

#1 - 13N02W12L001M

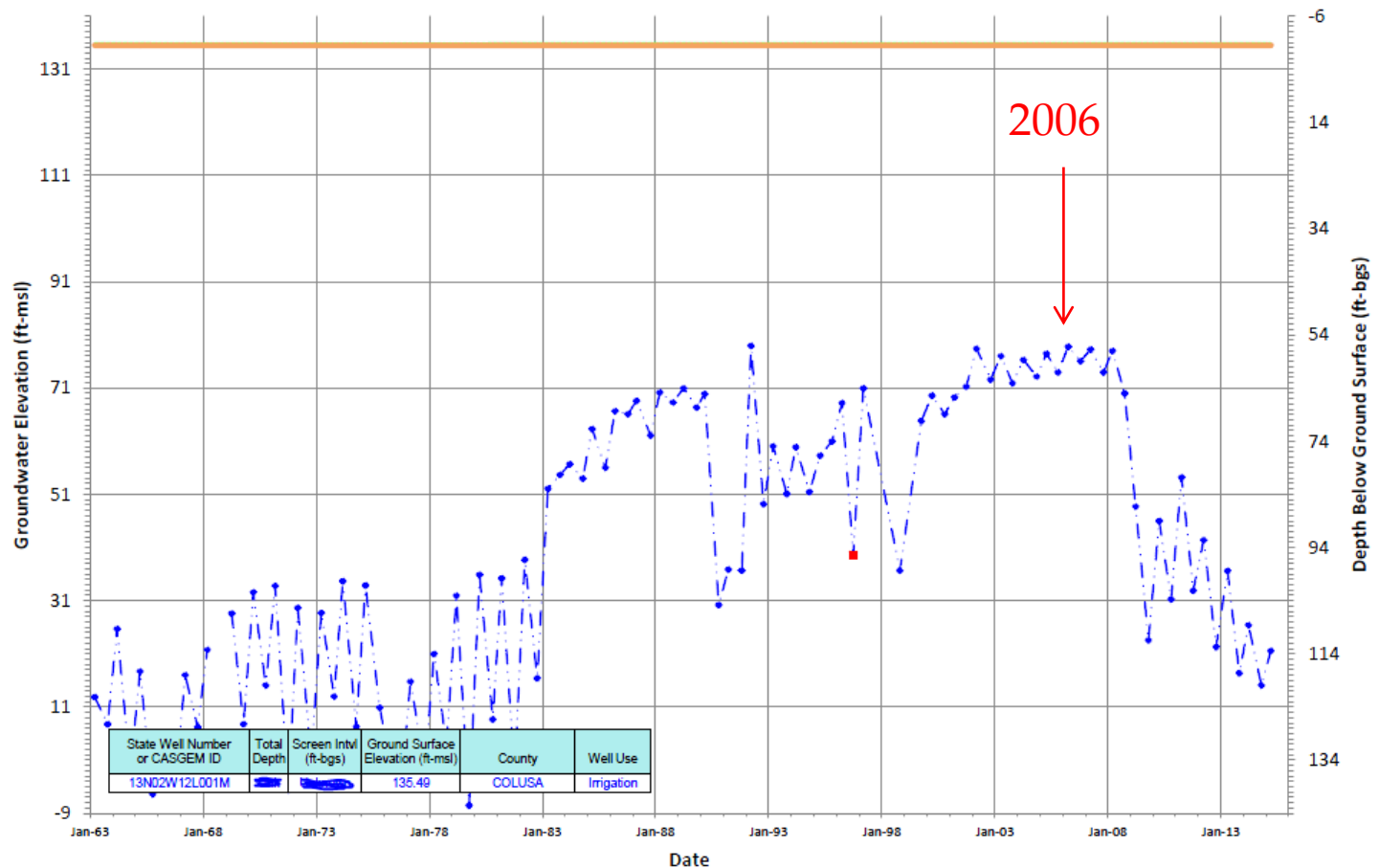


13N02W12L001M

13N02W12L001M

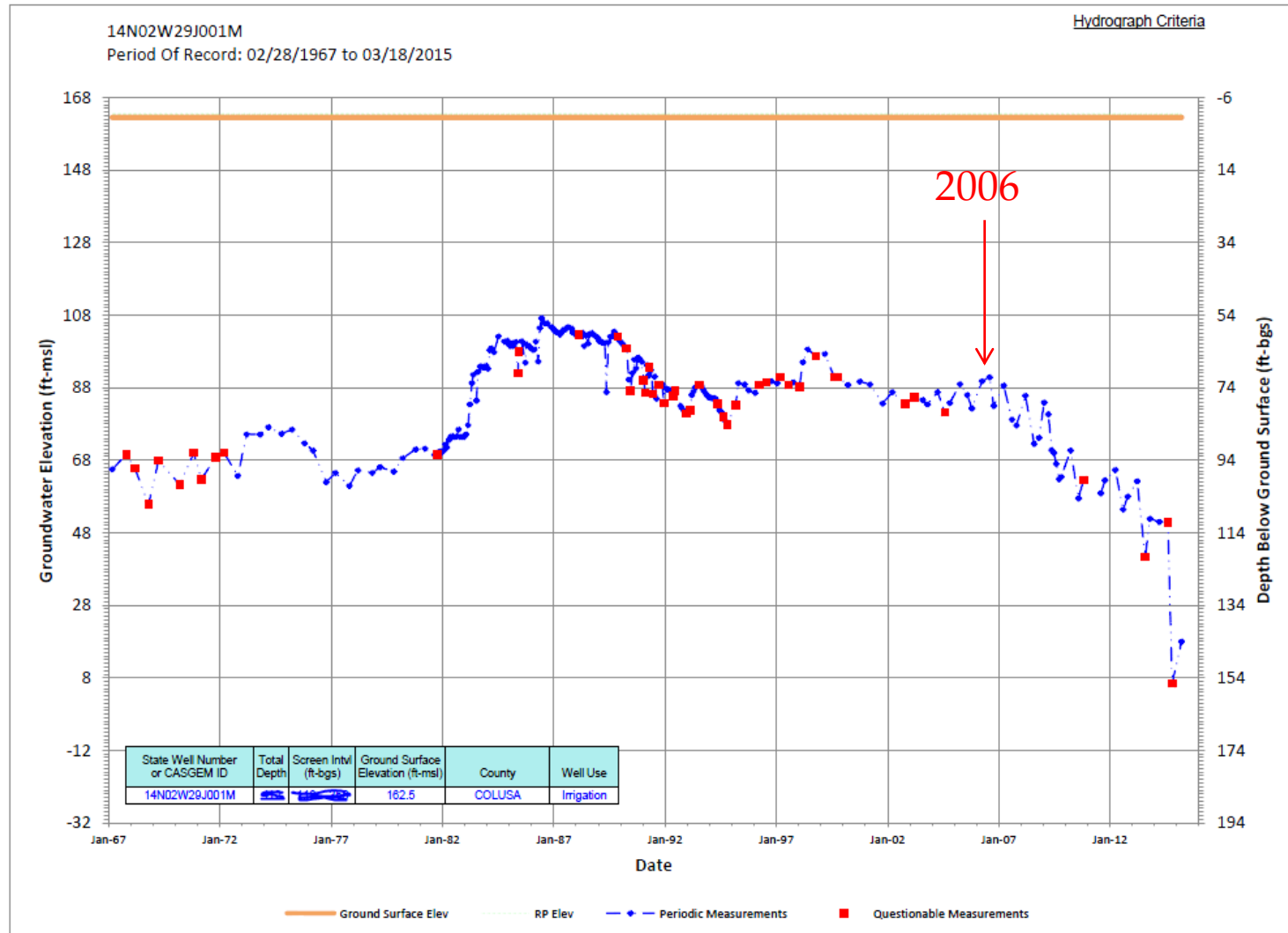
Period Of Record: 03/13/1963 to 03/17/2015

Hydrograph Criteria

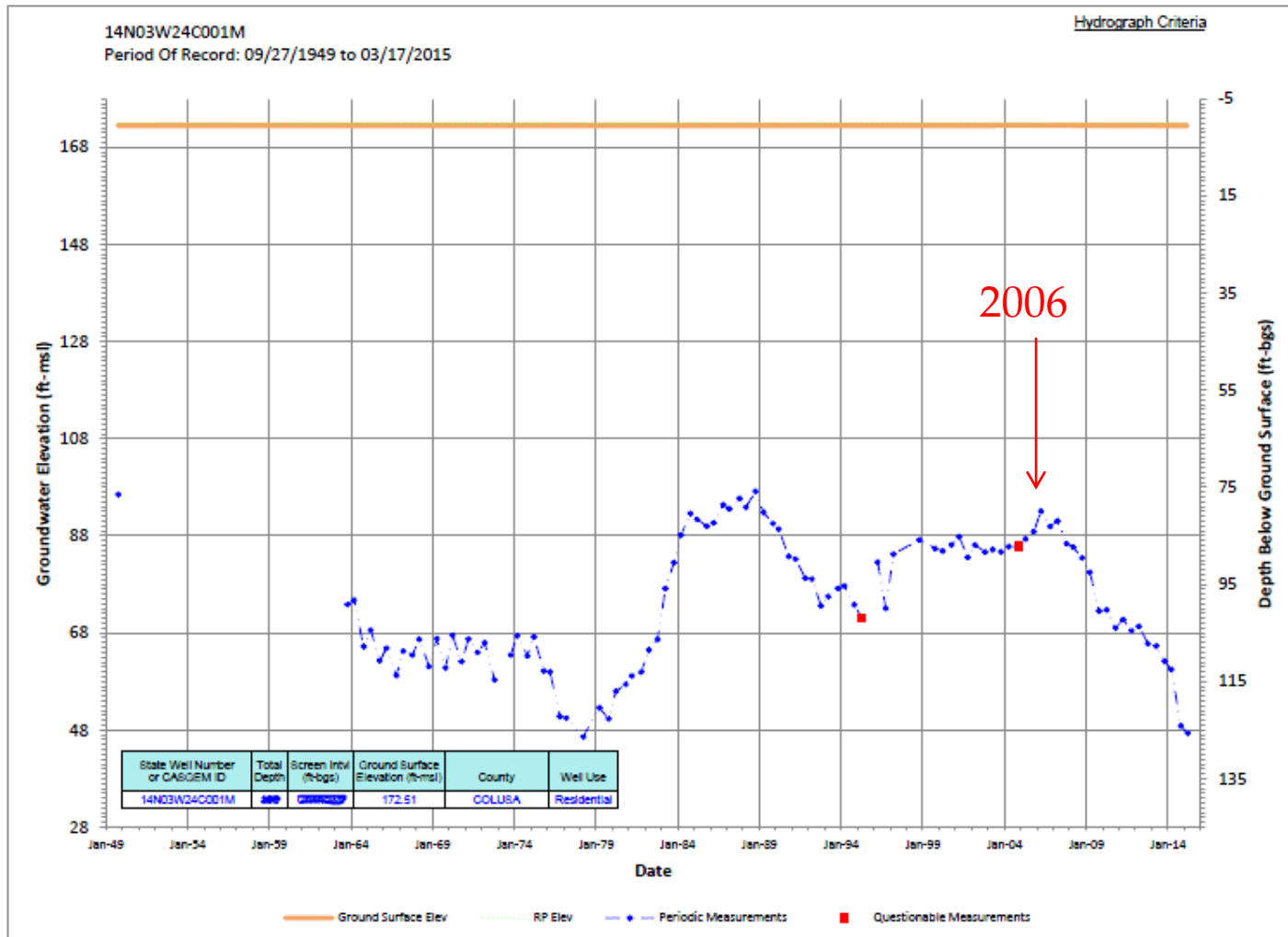


Ground Surface Elev RP Elev Periodic Measurements Questionable Measurements

14N02W29J001M



14N03W24C001M



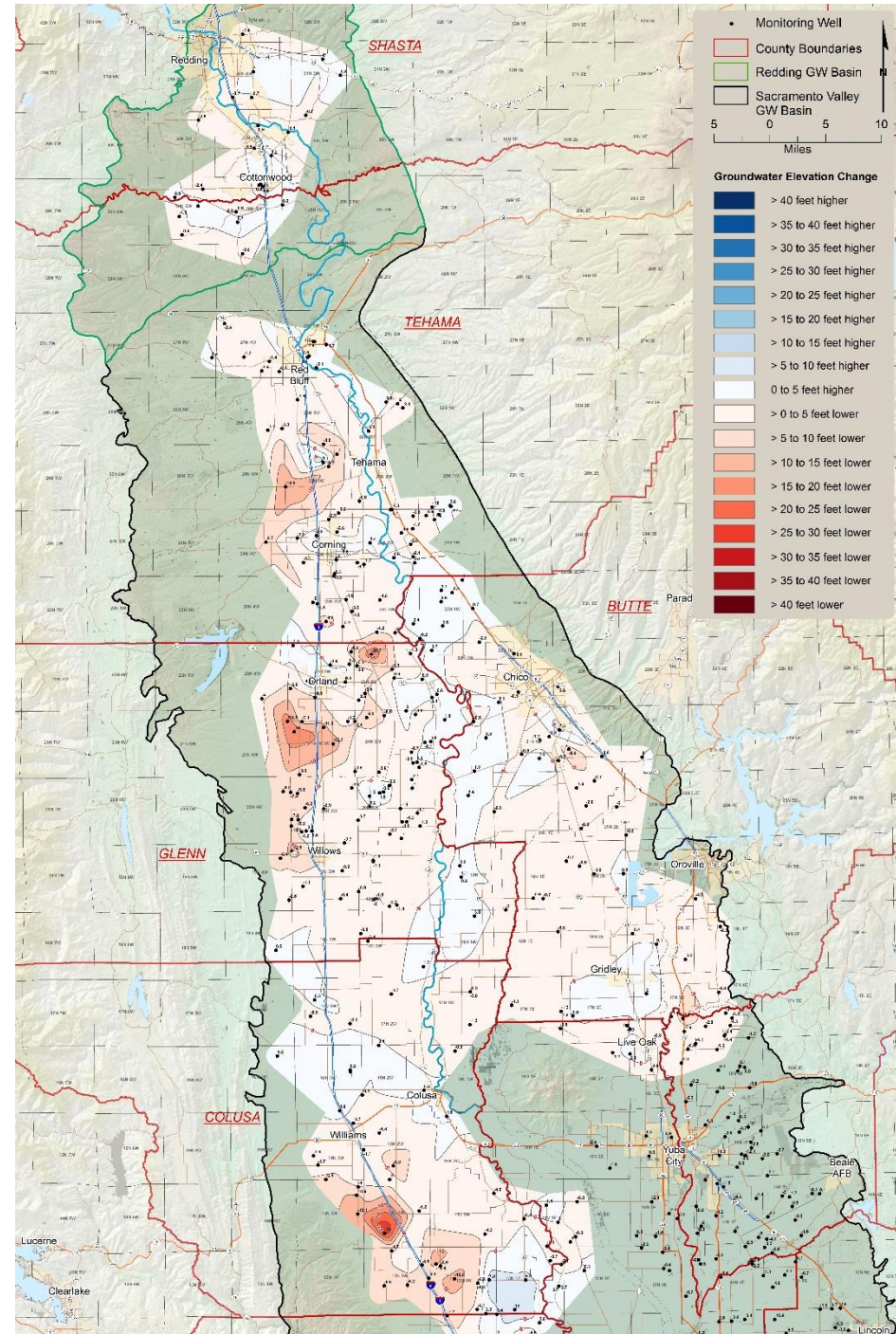
Groundwater Elevation Change Map Sacramento River Valley

Spring 2014 to 2015

Average:
100 to 450 feet
below ground surface

Summary Results for Spring 2014 to Spring 2015 Change in Groundwater Elevation

Maximum Increase GWE (ft)	10.0
Maximum Decrease GWE (ft)	-33.0
Average Change GWE (ft)	-1.9
Average Well Depth (ft)	268
Number of Wells Monitored	282



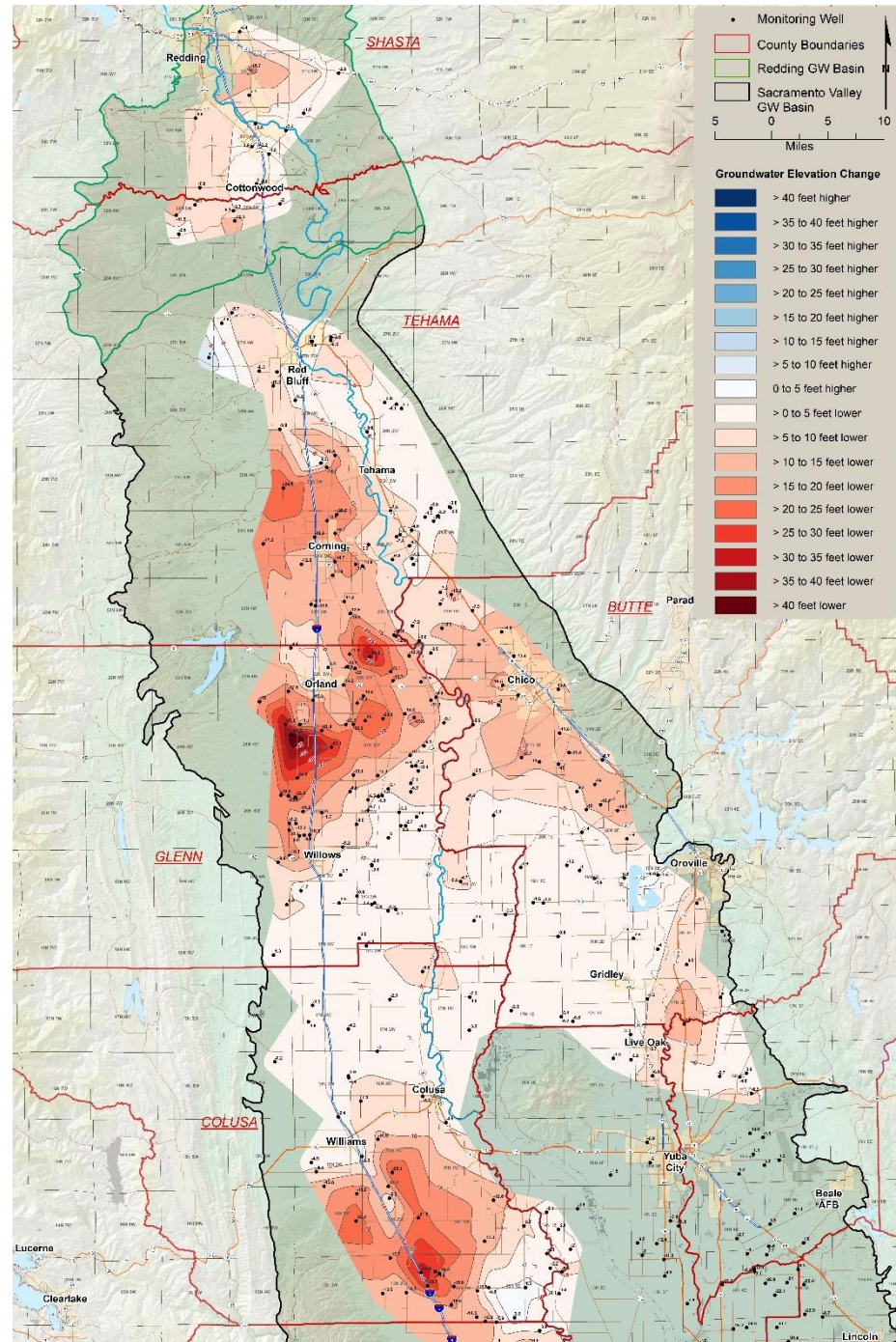
Groundwater Elevation Change Map Sacramento River Valley

Spring 2011 to 2015

Average:
100 to 450 feet
below ground surface

Summary Results for Spring 2011 to Spring 2015 Change in Groundwater Elevation

Maximum Increase GWE (ft)	8.1
Maximum Decrease GWE (ft)	-47.5
Average Change GWE (ft)	-9.3
Average Well Depth (ft)	264
Number of Wells Monitored	260



Groundwater Elevation Change Map Sacramento River Valley

Spring 2004 to 2015

Average:
100 to 450 feet
below ground surface

Summary Results for Spring 2004 to Spring 2015 Change in Groundwater Elevation

Maximum Increase GWE (ft)	20.1
Maximum Decrease GWE (ft)	-73.6
Average Change GWE (ft)	-13.2
Average Well Depth (ft)	254
Number of Wells Monitored	201

