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Submitted by:

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Seasonal Irrigation Considerations for Orchard Crops

Curt Pierce, UCCE Irrigation and Water Resources Advisor, Glenn, Tehama, Colusa, and Shasta Counties

- Almond growers should take this last opportunity ahead of bloom to do thorough checks of their pumps, filters, and other systems that may need [maintenance](#) now.
- Despite some very spring-like days, the threat of frost remains. Keep orchard vegetation under 2 inches in height, the ground moist – not wet and not cultivated – for the warmest orchard temps. If using sprinklers for protection, only run them to maintain wet-bulb temperatures above critical thresholds for your orchard.
- [ET reports](#) will resume in March 2026. Remember that soils typically hold water long after the surface appears dry, and unsaturated soils are vital for spring root development and function. Soil moisture meters, placed in the orchard, are very helpful for determining start of irrigation times in almonds. A great installation tutorial video can be found [here](#).

Management of Golden Mussels in Northern California Agricultural Water Systems

Curt Pierce, UCCE Irrigation and Water Resources Advisor, Glenn, Tehama, Colusa, and Shasta Counties

Golden Mussels (*Limnoperna fortunei*), a non-native, invasive mussel species, have been reported in several locations around California's northern and central regions over the past year since they were first detected. As of early 2026, the majority of instances have occurred in the Sacramento Delta region, with additional



Figure 1. Golden Mussels. Photo: Jeb Bjerke, CDFW

populations extending south through the San Joaquin Valley, past Bakersfield. Currently, there have been no confirmed sightings in the Northern Sacramento Valley. Though with the movement of watercraft between California waterways, the region is likely to see them eventually.

Unlike Quagga and Zebra Mussels, Golden Mussels have several important differences that increase their threat to agricultural water systems and producers. Most importantly, they are tolerant of a much wider range of temperature and water quality conditions, which allows them to establish themselves in reservoirs and canals that feed into irrigation conveyance systems. Once present, they reproduce at much higher rates, leading to rapid population growth. Their larvae remain small enough to be readily distributed through our water and irrigation systems, where they can quickly accumulate in pipes, screens, filters, and pumps. They create dense colonies, not just surface encrustations, posing an increased risk to enclosed systems with small-diameter pipes or tubing, such as those used for micro- and drip-irrigation.

Their sensitivity to oxidants is likely similar to that of other mussels. Still, their increased tolerance and ability to spread rapidly make effective treatments unlikely, and their eradication once established is not currently considered feasible. This is particularly true in agricultural systems where chemical treatments are not possible. This results in a current reliance on prevention, early intervention, and reporting, which can lead to the effective containment of the species. Whenever equipment is used across water systems or waterways, take time to “*clean it, drain it, dry it*”, and inspect it for the presence of mussels.

Winter is also an ideal time to perform maintenance on irrigation systems. Inspect intakes, screens, pipes, valves, filters, and other components whenever possible, both for optimal performance and the presence of these new invaders threatening water systems and delivery across the state.

Any sightings of Golden Mussels in the North State, whether suspected or confirmed, should be immediately reported to the [California Department of Fish and Wildlife](https://www.water.ca.gov/Conservation/Invasives/Species/Golden-Mussel) or by emailing invasives@wildlife.ca.gov.

Additional Resources:

<https://wildlife.ca.gov/Conservation/Invasives/Species/Golden-Mussel>

<https://water.ca.gov/What-We-Do/Recreation/Mussel-Mitigation>

Upcoming Events			
Date	Event	Location	Contact
Thursday, February 26, 2026	NSV Prune Day	Red Bluff Elks Lodge	njott@ucanr.edu
Wednesday, March 4, 2026	Sutter Yuba Walnut Day	TBD	clareyes@ucanr.edu
Thursday, March 5, 2026	NSV Walnut Day	Red Bluff Elks Lodge	njott@ucanr.edu
Monday, March 9, 2026	Principles of Fruit and Nut Trees	Foundation Plant Services, Davis CA	fruitsandnuts@ucdavis.edu
Saturday, May 9, 2026	Nickels Field Day	Nickels Soil Lab	fjniederholzer@ucanr.edu

QUARTERLY GROUNDWATER REPORT

Winter 2025

March 2024 - December 2025

Telemetered Monitoring Well Sites (regions extending from south to north)

Well Depth (feet below ground surface)

Site	SWN	Site Code	Well Screen Range (ft)	County	Type	Coordinates	Site Description	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25	Sep-25	Dec-25		
Colusa																	
1	14N01E35P001M	390124N1218291W001	895-995	Colusa	Farm	39°00'44.8"N 121°49'44.6"W	Between Wilson Bend Rd & Fruchtenicht	25.42	27.06	33.02	29.46	25.26	25.86	31.62	29.14		
	14N01E35P002M	390124N1218291W002	545-555, 610-520, 695-705					19.81	25.25	28.49	23.06	19.88	23.16	19.88	23.16	28.93	24.31
	14N01E35P003M	390124N1218291W003	135-145, 151.5-225					14.20	17.67	17.88	13.87	14.23	17.08	13.87	14.23	17.08	16.95
	14N01E35P004M	390124N1218291W004	50-60					15.33	15.72	17.41	17.10	15.53	16.69	17.10	15.53	16.69	17.04
	14N02W22A002M	390540N1220607W002	1026-1036					71.74	80.71	88.81	79.92	70.67	76.58	86.57	76.58	86.57	76.96
	14N02W22A003M	390540N1220607W003	865-875, 926-936					69.49	102.43	100.59	79.52	68.71	94.18	98.80	77.68	98.80	77.68
	14N02W22A004M	390540N1220607W004	583-603					66.87	150.56	108.21	72.81	64.41	134.73	110.18	73.70	134.73	110.18
	14N02W22A005M	390540N1220607W005	290-300					64.41	142.22	103.04	69.86	61.71	127.96	101.77	70.74	127.96	101.77
	15N03W20Q001M	391330N122165W001	370-410					29.90	29.23	29.56	29.38	29.30	28.27	28.47	28.47	28.47	28.53
	15N03W20Q002M	391330N122165W002	130-160					14.21	15.86	17.07	18.74	13.99	15.10	16.63	16.24	13.99	15.10
15N03W20Q003M	391330N122165W003	30-80	14.28	15.72	16.93	18.72	13.96	15.02	16.52	16.08	13.96	15.02					
16N03W14H003M	392414N122153W001	1370-1380, 1410-1420	2.52	2.27	2.32	1.99	1.97	1.75	1.75	1.67	1.75	1.67	1.40				
16N03W14H004M	392414N122153W002	1140-1150, 1170-1180	16.18	14.63	14.44	14.08	13.68	12.28	12.28	12.09	12.28	12.09	12.17				
16N03W14H005M	392414N122153W003	720-730	22.60	27.95	30.76	26.38	23.53	29.33	23.53	29.33	23.53	29.33	24.86				
16N03W14H006M	392414N122153W004	295-305	8.88	15.28	19.76	13.48	9.02	14.43	14.43	19.06	13.48	9.02	14.43				
16N02W05B001M	392753N122105W001	730-750	17.59	26.56	31.04	23.56	16.27	29.75	24.30	23.72	29.75	24.30	23.72				
16N02W05B002M	392753N122105W002	462-473	15.41	25.63	30.68	21.56	14.30	23.91	31.08	22.06	23.91	31.08	22.06				
16N02W05B003M	392753N122105W003	461-471, 531-541, 611-631, 641-691, 711-771	9.12	19.84	19.49	10.99	8.32	17.37	18.43	11.86	10.99	8.32	17.37	18.43			
17N02W09H002M	393417N1220838W001	779-800	7.79	18.36	18.71	13.91	7.42	15.92	18.45	16.31	13.91	7.42	15.92	18.45			
17N02W09H003M	393417N1220838W002	470-480, 510-520	5.85	17.19	16.28	3.02	5.14	14.34	15.62	14.95	3.02	5.14	14.34	15.62			
17N02W09H004M	393417N1220838W003	250-260	2.01	11.50	14.14	12.28	3.50	8.55	9.00	8.00	3.50	8.55	9.00	8.00			
19N02W08Q001M	395157N122112W001	856-876	37.98	43.02	55.07	45.15	36.97	41.14	53.70	43.24	45.15	36.97	41.14	53.70			
19N02W08Q002M	395157N122112W002	208-218	7.77	10.19	10.27	5.24	5.98	8.72	7.37	6.98	5.98	8.72	7.37	6.98			
19N02W08Q003M	395157N122112W003	77-87	7.25	5.06	7.73	2.87	6.71	4.80	6.70	2.28	6.71	4.80	6.70	2.28			
20N02W25F001M	395595N1220326W001	940-960	8.33	7.75	11.87	10.52	7.05	6.28	10.82	10.09	7.05	6.28	10.82	10.09			
20N02W25F002M	395595N1220326W002	420-430, 460-470	3.69	14.44	12.34	3.51	3.73	14.51	12.13	8.01	3.51	3.73	14.51	12.13			
20N02W25F003M	395595N1220326W003	190-200, 250-260	4.34	7.68	7.82	1.69	3.92	7.64	6.68	5.16	1.69	3.92	7.64	6.68			
20N02W25F004M	395595N1220326W004	55-65	4.92	3.19	5.58	2.61	3.98	3.34	4.33	3.30	3.98	3.34	4.33	3.30			
21N02W01F001M	397043N1220387W001	547-557	30.35	51.75	48.46	32.97	26.81	48.17	48.63	32.97	26.81	48.17	48.63	32.97			
21N02W01F002M	397043N1220387W002	297-307	27.11	62.40	41.79	27.84	24.86	42.96	40.25	29.54	27.84	24.86	42.96	40.25			
21N02W01F003M	397043N1220387W003	109-119	27.26	35.61	34.92	27.41	24.45	32.48	33.19	28.36	27.41	24.45	32.48	33.19			
21N02W01F004M	397043N1220387W004	55-65	26.60	33.85	33.44	26.95	23.67	31.02	32.07	27.63	26.95	23.67	31.02	32.07			
21N02W33M001M	396299N1221007W001	869-890	51.23	65.83	70.51	57.57	50.20	65.73	71.72	56.50	57.57	50.20	65.73	71.72			
21N02W33M002M	396299N1221007W002	540-550	42.30	61.00	67.89	47.29	40.30	59.50	63.91	52.16	47.29	40.30	59.50	63.91			
21N02W33M003M	396299N1221007W003	140-150	28.26	35.60	31.90	25.82	24.19	27.43	33.09	25.59	25.82	24.19	27.43	33.09			
22N02W30H002M	397325N1221233W001	850-880	96.51	104.46	121.63	103.13	91.02	104.02	121.24	101.73	91.02	104.02	121.24	101.73			
22N02W30H004M	397325N1221233W003	45-55, 60-70	17.15	19.59	23.73	20.24	14.78	18.63	22.20	22.02	14.78	18.63	22.20	22.02			
22N03W24E001M	397473N1221559W001	800-800	204.47	205.44	230.59	224.84	210.72	210.23	233.49	225.25	210.72	210.23	233.49	225.25			
22N03W24E002M	397473N1221559W002	130-150, 170-180	34.00	72.48	59.05	37.36	32.76	62.91	66.68	39.63	32.76	62.91	66.68	39.63			
22N03W24E003M	397473N1221559W003	49-59	16.06	22.01	22.49	17.88	15.63	21.20	22.07	21.89	17.88	15.63	21.20	22.07			
Butte																	
13	18N01E35L001M	393678N1218288W001	816-836	Butte	Farm	39°22'02.8"N 121°49'40.4"W	Colusa Hwy & Cherokee Canal Rd	-3.47	-0.20	0.40	-1.59	-3.46	-0.32	0.24	-1.14		
14	19N01E35B001M	394635N1218276W001	85-95, 125-135	Butte	Farm	39°27'48.4"N 121°49'39.9"W	Hwy 162 & Agnus Frias Rd	3.62	3.46	4.54	1.86	3.26	2.26	3.40	57.13		
	19N01E35B002M	394635N1218276W002	930-950					-3.61	-2.56	-1.36	-2.62	-4.09	-2.26	-1.07	-2.68		
	19N01E35B003M	394635N1218276W003	490-510					1.62	2.41	3.29	1.17	0.90	2.28	3.02	1.56		
15	19N02E07K002M	395118N1217880W001	560-570	Butte	Farm	39°30'42.5"N 121°47'16.7"W	Bradford Rd & Agnus Frias Rd	1.58	4.19	3.46	2.09	0.63	3.89	3.43			
	19N02E07K003M	395118N1217880W002	330-340					3.22	2.89	3.95	1.99	2.86	2.51	2.90			
19N02E07K004M	395118N1217880W003	140-150	3.14	3.01	3.87	2.05	2.84	2.59	2.87	2.71	2.59	2.87	2.71				

Telemetered Monitoring Well Sites (regions extending from south to north)										Well Depth (feet below ground surface)									
Site	SWN	Site Code	Well Screen Range (ft)	County	Type	Coordinates	Site Description	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25	Sep-25	Dec-25				
16	20N01E18L001M	395771N1219082W001	767-810, 873-894	Butte	Farm	39°34'37.5"N 121°54'29.6"W	7 Mile Rd. Between Grainland Rd & Nelson Rd	5.58	10.50	11.31	8.13	4.28	8.78	10.86	8.93				
	20N01E18L002M	395771N1219083W001	510-530, 550-560					4.99	10.00	9.79	6.13	4.21	9.19	9.98	8.62				
	20N01E18L003M	395771N1219083W002	98-108					3.32	5.01	6.25	2.52	2.73	4.35	7.66	4.22				
17	21N01W24B001M	396655N1219250W001	800-820	Butte	Farm	39°39'55.9"N 121°55'30.1"W	River Rd & Ord Ferry Rd	16.34	26.54	28.06	19.78	14.61	27.85	25.54	20.88				
	17N01W10A001M	393437N1219519W001	770-780, 790-800					2.18	6.59	11.04	6.68	1.58	7.35	10.96	7.18				
18	17N01W10A002M	393437N1219519W002	380-390, 415-425	Colusa	Farm	39°20'37.6"N 121°57'07.0"W	Gridley Rd & E Glenn Rd	3.65	8.48	9.75	4.15	2.58	8.96	9.21	5.93				
	17N01W10A003M	393437N1219519W003	148-158					3.88	1.77	4.83	1.20	2.67	2.00	3.59	1.35				
	17N01W10A004M	393437N1219519W004	88-98					3.94	1.43	4.28	1.26	2.83	1.50	3.00	1.33				
	19N01W22D004M	394927N1219648W001	780-790					5.70	11.52	11.69	8.22	5.00	9.96	12.06	9.68				
19	19N01W22D005M	394927N1219648W002	520-530	Glenn	Farm	39°29'33.7"N 121°57'53.3"W	Alfon Blvd. Between Rd Y & Rd B	7.45	27.49	17.89	10.09	6.54	22.93	18.66	12.95				
	19N01W22D006M	394927N1219648W003	340-350					8.02	46.29	20.24	10.40	6.94	38.74	21.54	14.47				
	19N01W22D007M	394927N1219648W004	80-90					8.07	27.49	22.37	11.18	6.85	22.77	23.25	20.29				
Wyandotte Creek																			
20	18N04E19D001M	394051N1215736W001	714-734	Butte	Farm	39°24'18.4"N 121°34'25.0"W	Lone Tree Rd. Between Sunnybrook Ln & Cox Ln	18.22	17.91	20.11	19.94	18.46	17.62	19.41	19.37				
	18N04E19D002M	394051N1215736W002	435-455, 557-577					23.07	23.22	26.89	25.70	23.36	22.33	25.84	25.10				
	18N04E19D003M	394051N1215736W003	120-130, 190-200					32.77	56.51	56.85	38.03	31.59	46.03	54.35	36.06				
Vina																			
21	20N02E24C001M	395812N1217026W001	124-134	Butte	Farm	39°34'52.3"N 121°42'09.3"W	Nelson Rd. Between Adobe Rd & Golden State Hwy	52.02	63.85	60.92	55.31	49.83	58.46	62.48	56.71				
	20N02E24C002M	395812N1217026W002	336-346, 367-377					52.05	64.99	60.37	55.27	49.87	58.15	62.03	56.64				
	20N02E24C003M	395812N1217026W003	484-505					52.00	64.48	60.37	55.20	49.75	57.94	61.71	56.53				
	21N01E13L003M	396735N1218144W001	735-760					65.54	97.16	82.09	70.26	63.54	83.64	80.81	68.15				
22	21N01E13L004M	396735N1218144W002	540-560	Butte	Farm	39°40'24.5"N 121°48'51.9"W	Nicholas C Shouten Ln	65.49	99.97	82.40	70.23	63.44	81.16	80.42	67.98				
	21N01E13L005M	396735N1218144W003	240-340					65.55	104.95	81.26	70.42	63.45	80.50	80.38	68.64				
	23N01W31M002M	398028N1220294W001	1020-1030					17.37	35.01	41.73	26.01	16.59	30.48	43.33	26.26				
	23N01W31M003M	398028N1220294W002	590-600					11.80	39.12	32.85	16.71	10.13	32.90	34.95	19.13				
23	23N01W31M004M	398028N1220294W003	969-979, 1020-1030	Butte	Farm	39°48'10.0"N 122°01'45.9"W	Wilson Landing Rd	12.48	38.39	27.88	13.96	11.10	30.87	24.12	18.78				
	23N01W31M005M	398028N1220294W004	66-76					15.40	19.60	21.66	12.99	11.70	18.50	21.15	19.96				
Corning																			
24	22N01W29N001M	397263N1220105W001	859-879, 990-1010, 1116-1135	Glenn	Farm	39°43'34.6"N 122°00'37.9"W	Rd 45. Between St John Rd & 1st St	23.53	31.77	40.47	30.28	22.51	22.00	22.00	36.77				
	22N01W29N002M	397263N1220105W002	549-559, 595-605, 631-641					19.07	39.30	34.77	34.77	16.80	32.46	35.62	24.43				
	22N01W29N003M	397263N1220105W003	189-199, 255-265, 320-330, 370-380					14.09	32.04	22.13	12.22	13.09	29.73	26.75	18.38				
25	22N01W29N004M	397263N1220105W004	88-99	Glenn	Farm	39°45'48.5"N 122°04'37.7"W	6th Ave. Between Co Rd 9 & Hwy 32	10.81	17.67	17.74	11.60	10.00	16.92	17.57	14.79				
	22N02W15C002M	397634N122071W001	760-781					61.98	94.62	108.08	73.22	61.87	102.06	121.46	74.64				
	22N02W15C003M	397634N122071W002	370-380					40.92	85.10	74.49	45.45	37.84	77.36	73.62	46.24				
	22N02W15C004M	397634N122071W003	210-220					36.69	80.98	66.11	41.27	34.41	69.92	65.53	43.16				
26	22N02W15C005M	397634N122071W004	60-70	Glenn	Farm	39°47'50.7"N 122°15'08.3"W	Between Sour Grass Rd & Co Rd 3	23.88	34.25	37.16	28.80	22.13	30.92	35.31	29.32				
	22N04W01A001M	397974N1222523W001	680-700					209.29	213.91	217.73	217.73	217.73	208.43	208.43	208.43				
	22N04W01A002M	397974N1222523W002	520-530					147.25	152.46	156.71	156.81	156.81	147.28	147.28	147.28				
	22N04W01A003M	397974N1222523W003	321-331					119.90	129.81	129.53	128.78	128.78	119.73	119.73	119.73				
27	24N03W15A004M	399408N1221823W004	40-50	Tehama	Farm	39°56'27.1"N 122°10'56.4"W	Gallagher Ave. Between State Hwy 99w & Houghton Ave	9.62	8.65	9.36	9.75	9.75	10.01	10.01	10.01				
	24N03W15A005M	399408N1221823W001	740-750, 800-810, 840-850					71.04	90.21	90.36	81.13	71.16	87.09	98.10	79.83				
	24N03W15A006M	399408N1221823W002	480-490, 530-540, 590-600					69.43	84.06	95.83	79.22	68.24	80.43	94.17	77.87				
	24N03W15A007M	399408N1221823W003	260-270					68.76	83.68	94.72	78.58	67.67	80.36	93.67	77.33				
24N03W15A008M	399408N1221823W004	470-190	69.17	83.06	94.73	79.00	68.03	79.80	93.22	77.62									
Los Molinos																			
28	26N02W22E003M	400921N1220855W002	730-750	Tehama	Farm	40°05'31.6"N 122°05'08.0"W	Shasta Blvd. Between 3rd Ave & 68th Ave	27.20	29.06	30.99	28.24	26.74	27.48	30.51	28.83				
	26N02W22E004M	410921N1220855W001	560-570, 620-630, 660-670					27.48	29.63	31.91	29.08	27.42	28.46	31.53	29.78				
	26N02W22E005M	410921N1220855W003	100-110, 190-200					30.21	34.06	34.75	30.90	29.60	32.66	34.61	33.20				
26N02W22E006M	400921N1220855W001	40-50	33.40	37.66	33.05	29.39	27.63	29.84	32.08	31.13									

Telemetered Monitoring Well Sites (regions extending from south to north)										Well Depth (feet below ground surface)									
Site	SWN	Site Code	Well Screen Range (ft)	County	Type	Coordinates	Site Description	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25	Sep-25	Dec-25				
Red Bluff																			
29	25N05W13P002M	400163N1223809W001	875-895	Tehama	Residential/ Rural	40°05'58.9"N 122°22'51.5"W	Park Terrace & Stagecoach Ln	40.36	41.07	42.01	41.81	41.72	42.36	42.83	43.04				
	25N05W13P003M	400163N1223809W002	385-395, 445-455, 535-555					76.65	77.34	79.10	77.98	76.48	76.46	77.93	76.40				
	25N05W13P004M	400163N1223809W003	230-280					76.49	77.68	80.51	79.10	77.29	77.43	79.48	77.99				
	25N05W13P005M	400163N1223809W004	100-110, 140-170					59.22	60.76	62.73	61.14	59.55	60.66	61.96	60.78				
Antelope																			
30	27N03W15N004M	401874N1221988W002	680-700, 730-750	Tehama	Residential/ Farm	40°11'14.8"N 122°11'55.6"W	Antelope Blvd & Trinity Ave	30.32	49.04	53.99	34.65	28.33	49.76	52.55	35.35				
	27N03W15N005M	401874N1221988W004	510-550					31.11	51.42	54.80	35.28	28.52	52.93	52.75	36.87				
	27N03W15N006M	401874N1221988W006	290-300, 320-340					31.10	47.87	51.58	32.35	28.23	46.70	51.54	37.68				
	27N03W15N007M	401874N1221988W008	120-140, 170-210					29.72	42.59	46.24	34.04	26.70	37.66	44.85	36.81				
	27N03W15N008M	401874N1221988W010	65-85					27.78	32.28	38.84	33.05	24.33	28.83	36.69	34.86				
Anderson																			
31	29N04W03R002M	403929N1222944W001	740-750	Shasta	Residential/ Farm	40°23'34.6"N 122°17'40.0"W	Gas Point Rd & Della Ln	65.60	68.56	69.46	67.44	65.16	68.08	69.26	66.91				
	29N04W03R003M	403929N1222945W001	515-525, 590-600, 650-660					64.77	67.67	68.54	66.08	64.23	67.12	68.28	65.97				
	29N04W03R004M	403929N1222945W002	380-390					64.42	65.89	67.11	65.28	63.55	64.85	66.55	64.79				
	29N04W03R005M	403929N1222945W003	128-138, 178-188					70.20	72.95	73.80	70.56	69.31	72.15	73.09	71.11				
	29N04W03R006M	403929N1222945W004	40-60					30.71	30.41	30.12	28.24	27.97	27.86	28.25	30.43				
Enterprise																			
32	31N04W22P001M	405224N1223091W002	600-640	Shasta	Residential	40°31'20.6"N 122°18'32.9"W	Shasta View Dr & Bolam Creek Rd	88.63	93.15	94.54	92.64	91.57	93.52	95.19	90.99				
	31N04W22P002M	405224N1223091W004	470-510					88.40	93.81	95.75	93.95	92.64	94.46	97.24	90.96				
	31N04W22P003M	405224N1223091W006	170-210, 240-280					85.07	88.18	91.32	89.21	86.00	87.81	91.71	87.41				
	31N04W22P004M	405224N1223091W008	85-105					85.47	87.85	92.13	89.48	85.56	87.28	91.25	87.53				

Note from DWR: The groundwater level data presented are the closest measurement to the target dates of 3/15, 6/15, 9/15, or 12/15 (within 15 days before) for the respective quarterly report. The record is left blank if no data was recorded for that time-period. These data are queried from the Periodic Groundwater Level Measurements data set that is available on the California Natural Resources Agency Open Data (<https://data.cnra.ca.gov/dataset/periodic-groundwater-level-measurements>). This data set includes manual measurements and automated hourly groundwater level data uploaded via telemetry. Although efforts are made to ensure the accuracy of the data, these data may include water levels that are impacted by instrument malfunction as well as local conditions, such as the pumping of nearby wells, that are not documented. For a more complete depiction of groundwater conditions, full records of groundwater level data can be viewed on the Water Data Library (<https://wdl.water.ca.gov/waterdata/library/Map.aspx>) or the SGMA Data Viewer (<https://sgma.water.ca.gov/webglis/?appid=SGMADataViewer¤tconditions>). Groundwater level data provided by the Department of Water Resources, Northern Region Office. Report designed in cooperation with the University of California Department of Agriculture and Natural Resources, Cooperative Extension - Glenn County Office, Curt Pierce Water Resources Advisor, calpierce@ucanr.edu. For questions or additional information, please contact Debbie Spangler at debbie.spangler@water.ca.gov.

Resources

- Weekly Evapotranspiration (ET) Report (view, request, tutorials): <https://www.sacvalleyorchards.com/et-reports/>
- Northern Sierra Precipitation 8-Station Index: https://cdec.water.ca.gov/reportapp/javareports?name=PLOT_ESI.pdf
- Major Water Supply Reservoirs Current Conditions: <https://cdec.water.ca.gov/resapp/RescondMain>
- Resource Conservation Districts (RCD) Mobile Irrigation Labs – provide free irrigation system evaluations (application rate, distribution uniformity, etc.):
 - Glenn, Tehama, Butte, and Shasta Counties- Kevin Greer, kevin@tehamacountyrcd.org or 530-727-1297
 - Yolo, Colusa, Sutter, and Yuba Counties- Conor Higgins, higgins@yolorcd.org or 530-661-1688 ext. 4
 - Solano County- Kevin Young-Lai, kevin.young-lai@solanorcd.org or 707-678-1655 ext. 123
 - Sacramento County- Chris Timmer, chris@sloughousercd.org

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