

Northern Sacramento Valley Water Resource Manager Newsletter

Fall, 2025

In This Issue

- Autumn Irrigation Considerations for Orchard Crops
- Crop Water Loss Reporting in the North Sacramento Valley
- California Wastewater Needs Assessment: Baseline Survey Results 2025
- Quarterly Groundwater Report Fall 2025
- Upcoming Events
- Resources



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Autumn Irrigation Considerations for Orchard Crops

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

- Use stem water potential (SWP) measurements obtained with a pressure chamber to guide irrigation decisions, rather than evapotranspiration (ET) or soil moisture data alone, as long as possible.
- To support carbohydrate storage and protect trees, avoid very negative SWP (severe water stress) in the post-harvest period, particularly in young orchards. Excessive water stress during this period can lead to premature defoliation and negatively affect resource reserves.
- Maintain soil moisture heading into winter to help guard against freeze damage to trees during extreme cold events.
- If a freeze is forecast and soil moisture is low, apply irrigation 2 to 3 days before the freeze to help protect against frost damage. Another light irrigation the morning before the freeze will help rehydrate drying soil surfaces and provide maximum heat storage. Avoid excessive watering, which can result in surface pooling and prevent heat transfer back from the soil at night.

Crop Water Loss Reporting in the North Sacramento Valley

Curt Pierce, UCCE Irrigation and Water Resources Advisor, Glenn, Tehama, Colusa, and Shasta Counties
Cayle Little, Senior Land and Water Use Scientist, California Department of Water Resources

The CIMIS Network and ET Reporting

The California Irrigation Management Information System (CIMIS) is a California Department of Water Resources (DWR) program that has been providing reference evapotranspiration (ET_o) and weather data to the state of California for over 43 years. ET_o is commonly used by farmers to determine water needs and schedule irrigation for area crops. ET_o is also used in urban settings to estimate water needs for landscaping and golf courses. UC Cooperative Extension distributes this information through weekly “ET Reports” sent via email and available online. These ET Reports are sometimes presented as “Crop Water Loss

Reports” when printed in area newspapers for those offline. CIMIS's data is local, reliable, and indispensable for effective water management. It is also under threat due to station closure.

Calculating ETo accurately and reliably requires carefully sited local weather stations, with the CIMIS program establishing and maintaining the ones used to generate their weekly data in cooperation with local landowners. Glenn County has been without a local station for many years now, and recently, one of the two existing Butte County stations commonly used by Glenn County growers (Durham Station #12) has been removed at the landowner's request. As the entirety of the North Sacramento Valley is served by only four stations, the removal of this station represents a significant loss, which affects the ability to continue providing the data growers need to accurately and efficiently water their crops.

This information provided by the CIMIS network is a community resource that benefits all growers in the valley. It is used to directly manage irrigations and inform regional resource management and guideline development decisions. Having reliable and accurate information is critical to these efforts.



Photo credit: California Department of Water Resources

DWR needs our help to identify locations where new stations can be established. CIMIS goes to great lengths to ensure there is no “risk” for the landowner when hosting a station, and minimum requirements for candidate sites have been revised. Open, well-irrigated pastures, golf courses, community fields, or similar areas are ideal

locations for these small stations. Unfortunately, alfalfa doesn't work well due to the frequent cutting cycles. More information on station location requirements can be found on the [CIMIS website](#).

Using Personal Weather Stations for ET Data

Some commercially available weather stations (Campbell Scientific, Dynamax, etc.) can report ETo data directly. Others can be configured to report ETo data with additional hardware and software combinations. However, it is important to know that the variables used to calculate those data are highly sensitive to the quality of the sensors, calibration requirements, and site conditions such as wind instrument height, amount of open area around the station, vegetation growing around the station, etc.



Photo credit: California Department of Water Resources

The recommended best practices for using private weather station data are to ensure proper setup and calibration and follow CIMIS guidelines for site selection and maintenance.

If you'd like to know more about the CIMIS network, and its' importance to CA agriculture, visit cimis.water.ca.gov.

Please contact Curt Pierce with leads on any possible new station locations by emailing calpierce@ucanr.edu.

California Wastewater Needs Assessment: Baseline Survey Results 2025

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Summary: California's wastewater infrastructure is a critical, though often overlooked, part of community health and environmental protection. Yet many parts of the state continue to face sanitation challenges that directly affect families, workers, and local ecosystems. The California Wastewater Needs Assessment (WWNA) is a four-year project (2023–2027) designed to bring these issues into focus. Led by the UCLA Luskin Center for Innovation in collaboration with the California Institute for Water Resources (CIWR) at the University of California Agriculture and Natural Resources (UCANR) and partners, the project is gathering data to better understand—and ultimately address—the sanitation needs of communities across the state.

Have you had issues with your sewer system? Your home septic tank? Do you want to share these issues with us?

As part of the initial phases of the project, a [Baseline Survey](#) of experts and community members from non-profits, universities, and industry has just been completed. The findings provide a clearer picture of where problems are most acute, the types of communities impacted, and the kinds of support residents are seeking.

Through the Baseline Survey and follow-up activities, the WWNA team conducted outreach in three ways:

1. Administered a statewide survey of sanitation needs, targeting public agencies, technical assistance providers, nonprofits, university researchers, and community advocates.
2. Developed a spatial database for mapping vulnerable communities—including mobile home and RV parks, farmworker housing, disadvantaged communities, tribal lands, and state and federal campgrounds.
3. Conducted a field campaign (ongoing) to visit sites identified in the survey to document conditions firsthand.

The survey drew strong participation: 112 respondents out of 166 invited (a 67% response rate). More than 70 respondents shared information about specific communities experiencing sanitation issues, often based on personal experience or professional responsibility.



A trickling filter is used as one of the biological treatment stages at the Kettleman City wastewater treatment plant. Photo credit: California Institute of Water Resources

What are the Key Findings?

1. **Long-Lasting Issues.** Most respondents (79%) noted that they became aware of sanitation issues over 10 years ago.
2. **Housing Types.** Most sanitation issues occur in single-family (32%) or multi-family (12%) residences, followed by RVs (15%) and mobile home parks (15%).
3. **Sociodemographic Factors.** Respondents indicated that sanitation issues impact non-Hispanic white (34%), Latino (28%), and mixed-race (18%) communities.
4. **Disadvantaged Communities.** Most respondents (84%) mentioned that sanitation issues primarily occur in communities that meet statewide criteria as disadvantaged.

5. **Common Issues.** Respondents noted the most common sanitation issue is reliance on septic systems (38%), followed by no or intermittent water supply at home for sanitation (13%), and reliance on mobile toilets (12%).
6. **Septic Systems.** Lack of maintenance (67%) is the most frequently reported cause of septic system issues.
7. **Lack of Water Access.** Respondents indicated that some communities have “no or intermittent” water supply at home, especially in unhouse encampments.
8. **Mobile Toilets.** Respondents indicated that mobile toilets are primarily used either “frequently at work” (33%) or “at all locations” (33%), suggesting these communities lack access to permanent toilets at least part of the time.
9. **Mismanagement.** Few respondents know of locations where raw sewage is spilling into water bodies or land. When reported, this occurred at private family residences (80%), and a few respondents noted overflows inside buildings.
10. **No or Limited Access to Toilets.** Respondents noted that they knew of a few places with no or limited toilet access.
11. **No Indoor Sanitation Plumbing.** Respondents indicated that this issue is experienced primarily in communities facing unhoused and housing insecurity.
12. **Environmental and Public Health.** Residents are showing illness symptoms due to malfunctioning septic systems (10%), use of mobile home toilets (11%), and when indoor systems are not usable or not functioning (50%).
13. **Solution Assistance.** Communities are seeking technical (22%) and financial (21%) assistance. Respondents suggested that the most feasible solution could be septic systems; however, the communities face challenges from a lack of economic and technical resources. In this case, we believe that it is necessary to generate more information to determine what type of assistance is required in the different communities.

Why Does This Matter in the Sacramento Valley? For counties like *Glenn, Tehama, Colusa, Shasta, and Butte*, the findings carry particular weight. Many rural communities rely on septic systems, which may be unaffordable to maintain or replace if households lack resources. Others face challenges with aging infrastructure, lack of indoor plumbing in insecure housing, or inadequate access to permanent toilets. Because wastewater issues often remain “out of sight, out of mind,” they can persist for years without adequate attention or resources. Yet the impacts are visible—in local waterways, in public health outcomes, and in the daily lives of residents who lack safe and dignified sanitation.



An aeration tank (or extended aeration basin) from the Comunidad Nuevo Lago Mobile Home Park. Photo credit: California Institute of Water Resources

Share Your Experiences. *The WWNA team is actively seeking interviewees and community partners who can share firsthand stories about sanitation challenges in their area. If your community has faced problems with septic systems, water access, or other wastewater issues, your perspective can help inform statewide action. For more information—or to get involved—visit the [WWNA webpage](#) or contact the team at anrwater@ucanr.edu.*

The WWNA is led by the UCLA Luskin Center for Innovation, in collaboration with the University of California Agriculture and Natural Resources (UCANR), the California Institute for Water Resources (CIWR), the State Water Resources Control Board, Sacramento State's Office of Water Programs, and the University of Massachusetts, Amherst.

QUARTERLY GROUNDWATER REPORT															
Fall 2025															
December 2023 - September 2025															
Telemetered Monitoring Well Sites (regions extending from south to north)															
Site	SWN	Site Code	Well Screen Range (ft)	County	Type	Coordinates	Site Description	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25	Sep-25
Colusa															
1	14N01E35P001M	390124N1218291W001	985-995	Colusa	Farm	39°00'44.8"N 121°49'44.6"W	Between Wilson Bend Rd & Fruchtenicht	30.71	25.42	27.06	33.02	29.46	25.26	25.86	31.62
	14N01E35P002M	390124N1218291W002	545-555, 610-520, 695-705					24.34	19.81	25.25	28.49	23.06	19.88	23.16	28.93
	14N01E35P003M	390124N1218291W003	135-145, 215-225					17.40	14.20	17.67	17.88	13.87	14.23	17.08	16.95
	14N01E35P004M	390124N1218291W004	50-60					16.96	15.33	15.72	17.41	15.09	17.10	15.53	16.69
2	14N02W22A002M	390540N1220607W002	1026-1036	Colusa	Farm	39°03'14.3"N 122°03'38.4"W	Hahn Rd, Between Ohm Rd & Frontage Rd	83.11	71.74	80.71	88.81	79.92	70.67	76.58	86.57
	14N02W22A003M	390540N1220607W003	865-875, 926-936					81.93	69.49	102.43	100.59	79.52	68.71	94.18	98.80
	14N02W22A004M	390540N1220607W004	583-603					75.74	66.87	150.56	108.21	72.81	64.41	134.73	110.18
	14N02W22A005M	390540N1220607W005	290-300					73.22	64.41	142.22	103.04	69.86	61.71	127.96	101.77
3	15N03W20Q001M	391330N1221653W001	370-410	Colusa	Farm	39°07'58.8"N 122°12'59.2"W	Pumphouse Rd & E Camp Rd	30.46	29.90	29.23	29.56	29.38	29.30	28.27	28.47
	15N03W20Q002M	391330N1221653W002	130-160					17.99	14.21	15.86	17.07	18.74	13.99	15.10	16.63
4	16N03W14H003M	392414N1221535W001	30-80	Colusa	Farm	39°14'29.3"N 122°09'12.7"W	Pole Line Rd & 2 Mile Rd	17.89	14.28	15.72	16.93	18.72	13.96	15.02	16.52
	16N03W14H004M	392414N1221535W002	1370-1380, 1410-1420					2.27	2.52	2.27	2.32	1.99	1.97	1.75	1.67
	16N03W14H005M	392414N1221535W003	1140-1150, 1170-1180					16.97	16.18	14.63	14.44	14.08	13.68	12.28	12.09
	16N03W14H006M	392414N1221535W004	720-730					31.53	22.60	27.95	30.76	26.38	20.28	23.53	29.33
5	16N02W05B001M	392753N1221057W001	295-305	Colusa	Farm	39°16'31.0"N 122°06'20.4"W	Maxwell Rd	14.48	8.88	15.28	19.76	13.48	9.02	14.43	19.06
	16N02W05B002M	392753N1221057W002	730-750					25.53	17.59	26.56	31.04	23.56	16.27	23.72	29.75
	16N02W05B002M	392753N1221057W002	462-473					24.56	15.41	25.63	30.68	21.56	14.30	23.91	31.08
	16N02W05B003M	392753N1221057W003	461-471, 531-541, 611-631, 641-691, 711-771					12.18	9.12	19.84	19.49	10.99	8.32	17.37	18.43
6	17N02W09H002M	393417N1220838W001	779-800	Colusa	Farm	39°20'30.1"N 122°05'01.6"W	Willow Creek & 4 Mile Rd	16.22	7.79	18.36	18.71	13.91	7.42	15.92	18.45
	17N02W09H003M	393417N1220838W002	470-480, 510-520					6.27	5.85	17.19	16.28	3.02	5.14	14.34	15.62
	17N02W09H004M	393417N1220838W003	250-260					3.29	2.01	11.50	14.14	12.28	3.50	8.55	9.00
	19N02W08Q001M	395157N1221122W001	856-876					47.59	37.98	43.02	55.07	45.15	36.97	41.14	53.70
7	19N02W08Q002M	395157N1221122W002	208-218	Glenn	Farm	39°30'56.5"N 122°06'44.0"W	Hwy 162, Between Rd S & Rd R	5.18	7.77	10.19	10.27	5.24	5.98	8.72	7.37
	19N02W08Q003M	395157N1221122W003	77-87					3.89	7.25	5.06	7.73	2.87	6.71	4.80	6.70
	20N02W25F001M	395595N1220326W001	940-960					12.64	8.33	7.75	11.87	10.52	7.05	6.28	10.82
	20N02W25F002M	395595N1220326W002	420-430, 460-470					6.88	3.69	14.44	12.34	3.51	3.73	14.51	12.13
8	20N02W25F003M	395595N1220326W003	190-200, 250-260	Glenn	Farm	122°01'57.4"W	Sidds Rd, Between Rd W & Rd X	4.45	4.34	7.68	7.82	1.69	3.92	7.64	6.68
	20N02W25F004M	395595N1220326W004	55-65					3.07	4.92	3.19	5.58	2.61	3.98	3.34	4.33
	21N02W01F001M	397043N1220387W001	547-557					36.85	30.35	51.75	48.46	32.97	26.81	48.17	48.63
	21N02W01F002M	397043N1220387W002	297-307					32.80	27.11	62.40	41.79	27.84	24.86	42.96	40.25
9	21N02W01F003M	397043N1220386W001	109-119	Glenn	Farm	122°02'19.0"W	Rd VV & Rd 24	26.83	27.26	35.61	34.92	27.41	24.45	32.48	33.19
	21N02W01F004M	397043N1220386W002	55-65					33.65	26.60	33.85	33.44	26.95	23.67	31.02	32.07
	21N02W33M001M	396299N1221007W001	869-890					61.02	51.23	65.83	70.51	57.57	50.20	65.73	71.72
	21N02W33M002M	396299N1221007W002	540-550					61.36	42.30	61.00	67.89	47.29	40.30	59.50	63.91
10	21N02W33M003M	396299N1221007W003	140-150	Glenn	Farm	122°06'02.4"W	Co Rd S, Between Rd 31 & Rd 33	28.93	28.26	35.60	31.90	25.82	24.19	27.43	33.09
	22N02W30H002M	397325N1221233W001	850-880					104.41	96.51	104.46	121.63	103.13	91.02	104.02	121.24
	22N02W30H004M	397325N1221233W003	45-55, 60-70					25.08	17.15	19.59	23.73	20.24	14.78	18.63	22.30
	22N03W24E001M	397473N1221559W001	800-200					222.07	204.47	205.44	230.59	224.84	210.72	210.23	233.49
12	22N03W24E002M	397473N1221559W002	130-150, 170-180	Glenn	Farm	39°44'50.4"N 122°09'21.2"W	Hwy 32, Between Rd N & Rd O	42.68	34.00	72.48	59.05	37.36	32.76	62.91	66.68
	22N03W24E003M	397473N1221559W003	49-59					23.73	16.06	22.01	22.49	17.88	15.63	21.20	22.07
Butte															
13	18N01E3L001M	393678N1218288W001	816-836	Butte	Farm	39°22'02.8"N 121°49'40.4"W	Colusa Hwy & Cherokee Canal Rd	-0.99	-3.47	-0.20	0.40	-1.59	-3.46	-0.32	0.24
	19N01E3S001M	394635N1218276W001	85-95, 125-135					2.13	3.62	3.46	4.54	1.86	3.26	2.26	3.40
	19N01E3S002M	394635N1218278W001	930-950					-1.68	-3.61	-2.56	-1.36	-2.62	-4.09	-2.26	-1.07
	19N01E3S003M	394634N1218278W002	490-510					0.94	1.62	2.41	3.29	1.17	0.90	2.28	3.02
14	19N02E07K002M	395118N1217880W001	560-570	Butte	Farm	39°30'42.5"N 121°47'16.7"W	Bradford Rd & Agnus Frías Rd	3.64	1.58	4.19	3.46	2.09	0.63	3.89	3.43
	19N02E07K003M	395118N1217880W002	330-340					2.25	3.22	2.89	3.95	1.99	2.86	2.51	2.90
	19N02E07K004M	395118N1217880W003	140-150					2.33	3.14	3.01	3.87	2.05	2.84	2.59	2.87
	19N02E07K005M	395118N1217880W004	140-150					2.33	3.14	3.01	3.87	2.05	2.84	2.59	2.87

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	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25	Sep-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	10.65	5.58	10.50	11.31	8.13	4.28	8.78	10.86
	20N01E18L002M	395771N1219083W001	510-530, 550-560					8.58	4.99	10.00	9.79	6.13	4.21	9.19	9.98
	20N01E18L003M	395771N1219083W002	98-108					4.67	3.32	5.01	6.25	2.52	2.73	4.35	7.66
17	21N01W24B001M	396655N1219250W001	800-820	Butte	Farm	39°39'55.9"N 121°55'30.1"W	River Rd & Ord Ferry Rd	23.00	16.34	26.54	28.06	19.78	14.61	27.85	25.54
	17N01W10A001M	393437N1219519W001	770-780, 790-800					8.38	2.18	6.59	11.04	6.68	1.58	7.35	10.96
18	17N01W10A002M	393437N1219519W002	380-390, 415-425	Colusa	Farm	39°20'37.6"N 121°57'07.0"W	Gridley Rd & E Glenn Rd	5.68	3.65	8.48	9.75	4.15	2.58	8.96	9.21
	17N01W10A003M	393437N1219519W003	148-158					1.04	3.88	1.77	4.83	1.20	2.67	2.00	3.59
	17N01W10A004M	393437N1219519W004	88-98					0.80	3.94	1.43	4.28	1.26	2.83	1.50	3.00
19	19N01W22D004M	394927N1219648W001	780-790	Glenn	Farm	39°29'33.7"N 121°57'53.3"W	Alton Blvd, Between Rd Y & Rd B	10.58	5.70	11.52	11.59	8.22	5.00	9.96	12.06
	19N01W22D005M	394927N1219648W002	520-530					13.05	7.45	27.49	17.89	10.09	6.54	22.93	18.66
	19N01W22D006M	394927N1219648W003	340-350					14.72	8.02	46.29	20.24	10.40	6.94	38.74	21.54
	19N01W22D007M	394927N1219648W004	80-90					16.16	8.07	27.49	22.37	11.18	6.85	22.77	23.25
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	19.58	18.22	17.91	20.11	19.94	18.46	17.62	19.41
	18N04E19D002M	394051N1215736W002	435-455, 557-577					25.74	23.07	23.22	26.89	25.70	23.36	22.33	25.84
	18N04E19D003M	394051N1215736W003	120-130, 190-200					40.46	32.77	56.51	56.85	38.03	31.59	46.03	54.35
Yina															
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	58.41	52.02	63.85	60.92	55.31	49.83	58.46	62.48
	20N02E24C002M	395812N1217026W002	336-346, 367-377					57.87	52.05	64.99	60.57	55.27	49.87	58.15	62.03
	20N02E24C003M	395812N1217026W003	484-505					58.24	52.00	64.48	60.37	55.20	49.75	57.94	61.71
22	21N01E13L002M	396735N1218144W001	735-760	Butte	Farm	39°40'24.5"N 121°48'51.9"W	Nicholas C Shouten Ln	71.59	65.54	97.16	82.09	70.26	63.54	83.64	80.81
	21N01E13L003M	396735N1218144W002	540-560					71.61	65.49	99.97	82.40	70.23	63.44	81.16	80.42
	21N01E13L004M	396735N1218144W003	240-340					71.73	65.55	104.95	81.26	70.42	63.45	80.50	80.38
23	23N01W31M001M	398028N1220294W001	1020-1030	Butte	Farm	39°48'10.0"N 122°01'45.9"W	Wilson Landing Rd	26.90	17.37	35.01	41.73	26.01	16.59	30.48	43.33
	23N01W31M002M	398028N1220294W002	590-600					20.51	11.80	39.12	32.85	16.71	10.13	32.90	34.95
	23N01W31M003M	398028N1220294W003	969-979, 1020-1030					19.70	12.48	38.39	27.88	13.96	11.10	30.87	24.12
	23N01W31M004M	398028N1220294W004	66-76					20.25	15.40	19.60	21.66	12.99	14.76	18.50	21.15
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	31.95	23.53	31.77	40.47	30.28	22.51	22.00	22.00
	22N01W29N002M	397263N1220105W002	549-559, 595-605, 631-641					24.97	19.07	39.30	34.77	34.77	16.80	32.46	35.62
	22N01W29N003M	397263N1220105W003	189-199, 255-265, 320-330, 370-380					19.22	14.09	32.04	22.13	12.22	13.09	29.73	26.75
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	15.47	10.81	17.67	17.74	11.60	10.00	16.92	17.57
	22N02W15C002M	397634N1220771W001	760-781					71.53	61.98	94.62	108.08	73.22	61.87	102.06	121.46
	22N02W15C003M	397634N1220771W002	370-380					49.84	40.92	85.10	74.49	45.45	37.84	77.36	73.62
26	22N02W15C004M	397634N1220771W003	210-220	Glenn	Farm	39°47'50.7"N 122°15'08.3"W	Between Sour Grass Rd & Co Rd 3	45.79	36.69	80.98	66.11	41.27	34.41	69.92	65.53
	22N02W15C005M	397634N1220771W004	60-70					34.92	23.88	34.25	37.16	28.80	22.13	30.92	35.31
	22N04W01A001M	397974N1222523W001	680-700					212.80	209.29	213.91	217.73	217.73	217.73	208.43	208.43
	22N04W01A002M	397974N1222523W002	520-530					151.65	147.25	152.46	156.71	156.81	147.28	147.28	
27	22N04W01A003M	397974N1222523W003	321-331	Tehama	Farm	39°56'27.1"N 122°10'56.4"W	Gallagher Ave, Between State Hwy 99w & Houghton Ave	123.90	119.90	129.81	129.53	128.78	128.78	119.73	119.73
	22N04W01A004M	397974N1222523W004	40-50					9.07	9.62	8.65	9.36	9.75	10.01	10.01	
	24N03W15A001M	399408N1221823W001	740-750, 800-810, 840-850					82.60	71.04	90.21	103.56	81.13	71.16	87.09	98.10
	24N03W15A002M	399408N1221823W002	480-490, 530-540, 590-600					81.70	69.43	84.06	95.83	79.22	68.24	80.43	94.17
28	24N03W15A003M	399408N1221823W003	260-270	Tehama	Farm	40°05'31.6"N 122°05'08.0"W	Shasta Blvd, Between 3rd Ave & 68th Ave	81.00	68.76	83.68	94.72	78.58	67.67	80.36	93.67
	24N03W15A004M	399408N1221823W004	470-190					81.40	69.17	83.06	94.53	79.00	68.03	79.80	93.22
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	28.83	27.20	29.06	30.99	28.24	26.74	27.48	30.51
	26N02W22E004M	410921N1210855W001	560-570, 620-630, 660-670					29.17	27.48	29.63	31.91	29.08	27.42	28.46	31.53
	26N02W22E005M	400921N1220855W003	100-110, 190-200					31.32	30.21	34.06	34.75	30.90	29.60	32.66	34.61
	26N02W22E006M	400921N1220855W001	40-50					34.77	33.40	37.66	33.05	29.39	27.63	29.84	32.08
Red Bluff															
29	25N05W13P002M	400163N1223809W001	875-895	Tehama	Residential/ Rural	40°00'58.9"N 122°22'51.5"W	Park Terrace & Stagecoach Ln	40.36	40.36	41.07	42.01	41.81	41.72	42.36	42.83
	25N05W13P003M	400163N1223809W002	385-395, 445-455, 535-555					76.65	76.65	77.34	79.10	77.98	76.48	76.46	77.93
	25N05W13P004M	400163N1223809W003	230-280					76.49	76.49	77.68	80.51	77.68	77.49	77.43	79.48
	25N05W13P005M	400163N1223809W004	100-110, 140-170					59.22	59.22	60.76	62.73	61.14	59.55	60.66	61.96

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	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25	Sep-25
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	36.77	30.32	49.04	53.99	34.65	28.33	49.76	52.55
	27N03W15N005M	401874N1221988W004	510-550					38.22	31.11	51.42	54.80	35.28	28.52	52.93	52.75
	27N03W15N006M	401874N1221988W006	290-300, 320-340					38.91	31.10	47.87	51.58	32.35	28.23	46.70	51.54
	27N03W15N007M	401874N1221988W008	120-140, 170-210					38.26	29.72	42.59	46.24	34.04	26.70	37.66	44.85
	27N03W15N008M	401874N1221988W010	65-85					37.14	27.78	32.28	38.84	33.05	24.33	28.83	36.69
Anderson															
31	29N04W03R002M	403929N1222944W001	740-750	Shasta	Residential/ Farm	40°23'34.6"N 122°17'40.0"W	Gas Point Rd & Della Ln	68.45	65.60	68.56	69.46	67.44	65.16	68.08	69.26
	29N04W03R003M	403929N1222945W001	515-525, 590-600, 650-660					67.57	64.77	67.67	68.54	66.08	64.23	67.12	68.28
	29N04W03R004M	403929N1222945W002	380-390					67.37	64.42	65.89	67.11	65.28	63.55	64.85	66.55
	29N04W03R005M	403929N1222945W003	128-138, 178-188					74.84	70.20	72.95	73.80	70.56	69.31	72.15	73.09
	29N04W03R006M	403929N1222945W004	40-60					35.76	30.71	30.41	30.12	28.24	27.97	27.86	28.25
Enterprise															
32	31N04W22P001M	405224N1223091W002	600-640	Shasta	Residential	40°31'20.6"N 122°18'32.9"W	Shasta View Dr. & Bolam Creek Rd	90.80	88.63	93.15	94.54	92.64	91.57	93.52	95.19
	31N04W22P002M	405224N1223091W004	470-510					91.33	88.40	93.81	95.75	93.95	92.64	94.46	97.24
	31N04W22P003M	405224N1223091W006	170-210, 240-280					89.03	85.07	88.18	91.32	89.21	86.00	87.81	91.71
	31N04W22P004M	405224N1223091W008	85-105					88.96	85.47	87.85	92.13	89.48	85.56	87.28	91.25

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.cnr.ca.gov/dataset/periodic-groundwater-level-measurements>). This data set includes manual measurements and automated hourly ground-water 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/waterdatalibrary/Map.aspx>) or the SGMA Data Viewer (<https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#contentconditions>). 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@wateratwork.gov.

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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@sloughhousercd.org

Upcoming Events

Date	Event	Location	Contact
11/20/2025	Groundwater Management & Recharge Meeting - Sutter, Yuba, and Colusa Counties	UCCE Office Yuba City, CA	clareyes@ucanr.edu
1/14/2026	North Valley Nut Conference	Silver Dollar Fairgrounds Chico, CA	https://myaglife.com/north-valley-nut-conference ; calpierce@ucanr.edu

More articles, information, and resources on NSV water are available at
sacvalleyorchards.com.

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Water Newsletter

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