UC CE UNIVERSITY OF CALIFORNIA Agriculture and Natural Resources Cooperative Extension

Northern Sacramento Valley Water Resource Manager Newsletter

Summer, 2025

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Water Resource Bullets for Summer 2025

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

Valley temperatures are rising to their seasonal highs and area crops are at peak water demand. Below are some general points to keep in mind for some of our major tree crops. For more detailed information on summer irrigation management for prune, see the article *Prune Orchard Pre- and Post-Harvest Irrigation Management (2025)* later in this issue.

- Use the Weekly ET Report to determine irrigation run times. Simply divide the amount indicated by your application rate (in inches per hour) to determine irrigation run time. Use a pressure chamber and/or soil moisture sensors to adjust as needed. Email calpierce@ucanr.edu to request to have it sent straight to you every week.
- Maximum nut weights in almond and walnut depend on adequate soil moisture in the weeks before harvest. Use a pressure chamber void sustained moderate to high water stress (-14 to -20 bars in almond, -8 to -12 bars in walnut).
- Table and oil olives have slightly different requirements for summer. For table olive, maintain adequate irrigation levels to support maximum size and minimum shrivel. Mild deficits are acceptable. For oil olives, mild to moderate deficit irrigation (cultivar dependent) can help favorably increase oil concentrations. Excessive deficits risk significant fruit drop.
- Excess irrigation in walnut can lead to quality issues, particularly during periods of intense heat. A good rule of thumb is to time irrigations for when trees are 2-3 bars below baseline SWP. Refer to the appropriate Stem Water Potential (SWP) tables for baseline values for your specific microclimate.
- Excess irrigation in all trees harvested by shaker can lead to shaker damage during harvest. Plan to assess orchards post-harvest for bark damage incurred during harvest activities.
- Resume irrigation in orchards as soon as possible after harvest activities are completed to restore water potential to the trees.
- Use surface water supplies whenever possible to limit groundwater use amidst implementation of local Sustainable Groundwater Management Act (SGMA) Groundwater Sustainability Plans (GSPs).

Prune Orchard Pre- and Post-Harvest Irrigation Management (2025)

Luke Milliron, UCCE Orchards Advisor, Butte, Glenn, and Tehama Counties
Curt Pierce, UCCE Irrigation and Water Resources Advisor, Glenn, Tehama, Colusa, and Shasta Counties
Franz Niederholzer, UCCE Farm Advisor; Colusa and Sutter/Yuba Counties

Summary: For the best returns and orchard health, ease up on irrigation before harvest, then resume full irrigation after harvest and continue until leaf drop. The pressure chamber is the best tool to manage irrigation for optimal tree and fruit results.

What's going on with the tree? Irrigation decisions leading up to and following prune harvest not only impact this year but also affect future harvests and orchard health. To manage irrigation effectively, we must first recognize what is happening with the tree and fruit as the season progresses. Shoot growth has been declining since early June, fresh fruit size increases slow by the end of July, while fruit dry weight continues to increase until the fruit reaches physiological maturity (4 lbs. pressure). Floral and vegetative bud development for next year's crop is also taking place, beginning in early summer and ending in late September on this season's growth (see Figure 1). Prune exhibits varying susceptibility to water stress during these different crop development stages. In part because we are optimizing for dried fruit size and not fresh fruit size, more water is not always the solution in prune production. Deficit irrigation, or supplying the trees with less than full ET (Figure 1), can provide key benefits beyond water savings and reduced pumping costs.

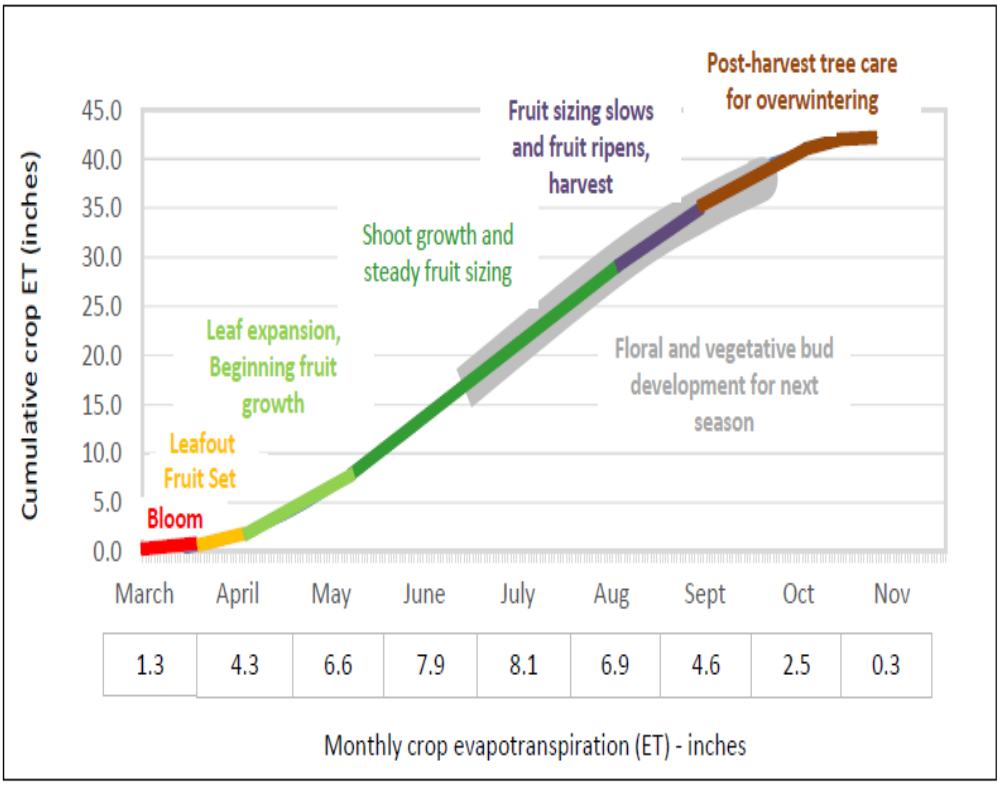


Figure 1. Graphic timeline of prune tree and crop development phases and associated average monthly and cumulative crop evapotranspiration (ET; figure by Allan Fulton, UCCE Tehama Emeritus).

How do you determine tree water status for optimal performance? Although ET calculations and soil moisture monitoring can be used to manage irrigation around harvest time, they do not directly measure the water status of the tree. In contrast, pressure chamber stem water potential (SWP) readings provide direct measurements of tree water status and can help deliver beneficial stress timings while avoiding unwanted severe stress. As you will see below, SWP is also the method we have the most information on for prune production, with Prune Board-funded research producing nuanced recommendations for both pre- and post-harvest irrigation management. ET, soil moisture, and SWP each provide different insights into the puzzle: how much to water, where your water is, and when to water, respectively. The expert irrigator integrates all three approaches.

Matching pressure chamber SWP readings to growth stage for optimal orchard performance: Maintaining minimal to mild water stress with SWP readings between -8 and -12 bars from April to mid-June promotes rapid shoot growth and fruit sizing (Table 1). May and June are also the most critical months for end-cracking, which occurs when irrigating very dry orchards, so shorter, rather than less frequent irrigations, are recommended. For the summer months, SWP readings of -12 to -16 bars from late June up to the preharvest irrigation cut-off can help reduce pruning and pumping costs while not impacting production. Cut off irrigation once fruits have reached physiological maturity (4 lbs. fruit pressure), in the week or two before harvest to achieve -16 to -20 bars SWP. This brief period of moderate to high stress can enhance dry-away ratios and minimize shaker bark injury at harvest. This irrigation cut off may also lead to less early fruit drop if the weather cools or there is a pest outbreak. Growers using Krymsk-86-rooted trees should take special care to ensure the trees are sufficiently dried down before shaking to avoid bark damage.

Once the crop is out of the field, follow through with careful irrigation management until the trees have lost their leaves or there is regular autumn rain. Prompt post-harvest irrigation should recover the trees to mild-to-moderate stress (-12 to -16 bars). Sustained high to severe water stress (-20 bars and lower) during the pre- and post-harvest period can reduce potassium uptake, encourage sunburn and growth of *Cytospora* cankers (Figure 2), and result in smaller fruit buds the following year.

The Sacramento Valley Orchards website has detailed guides on adopting the pressure chamber and interpreting SWP readings.

Table 1. SWP levels in prune, consideration of how SWP might compare to baseline values under various weather conditions, and the corresponding water stress symptoms to expect.

SWP range (bars)	General Stress Level	Water stress symptoms in prune
-8 to -12	Low to mild	Favors rapid shoot growth and fruit sizing in orchards when minimal crop stress is sustained from April through mid-June. Continuing to maintain low-mild stress into the summer may not be cost effective.
-12 to -16	Mild to Moderate	Suggested mild levels of stress during late June, July, and early August. Shoot growth slowed but fruit sizing (fresh and dry weights) is unaffected. May help manage energy and irrigation costs.
-16 to -20	Moderate to High	Should be avoided until fruit sizing is completed. Appropriate for late August (preharvest shut down). Imposing moderate to high levels of crop stress by reducing irrigation about two weeks before harvest may increase sugar content in fruit and reduce moisture content or "dry-away" (fruit drying costs).
-20 to -30	High to Severe	More likely to occur in late August and early September during and after harvest. Extended periods of high crop stress before harvest will result in defoliation and exposure of limbs and fruit to sunburn. Extended periods of high stress after harvest may also negatively affect the condition of trees going into dormancy.

Figure 2. Cytospora canker infections spread most rapidly in severely water stressed (sustained lower than -20 bars SWP) orchards. High to severe water stress is more likely to occur in late August and early September during and after harvest. Photo by Franz Niederholzer.

North Sacramento Valley Groundwater Report

Starting with this Summer 2025 Water Newsletter, we will be issuing quarterly groundwater reports in coordination with the Department of Water Resources, Northern Region Office. This data is being offered to afford everyone an opportunity to follow groundwater changes in the region in a way that is accessible to all. Use the links in the DWR note below for additional information.

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. 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 or the SGMA Data Viewer.

Groundwater level data provided by the Department of Water Resources, Northern Region Office. For questions or additional information, please contact Debbie Spangler at debbie.spangler@water.ca.gov.

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	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25
	Colusa														
1	14N01E35P001M	390124N1218291W001	985-995	Colusa	Farm	39°00'44.8"N 121°49'44.6"W	Between Wilson Bend Rd & Fruchtenicht	34.45	30.71	25.42	27.06	33.02	29.46	25.26	25.86
	14N01E35P002M	390124N1218291W002	545-555, 610-520, 695-705					28.89	24.34	19.81	25.25	28.49	23.06	19.88	23.16
	14N01E35P003M	390124N1218291W003	135-145,215-225					18.30	17.40	14.20	17.67	17.88	13.87	14.23	17.08
	14N01E35P004M	390124N1218291W004	50-60					17.18	16.96	15.33	15.72	17.41	15.09	17.10	15.53
2	14N02W22A002M	390540N1220607W002	1026-1036	Colusa	Farm	39°03'14.3"N 122°03'38.4"W	Hahn Rd, Between Ohm Rd & Frontage Rd	94.90	83.11	71.74	80.71	88.81	79.92	70.67	76.58
	14N02W22A003M	390540N1220607W004	865-875, 926-936					104.74	81.93	69.49	102.43	100.59	79.52	68.71	94.18
	14N02W22A004M	390540N1220607W006	583-603					113.02	75.74	66.87	150.56	108.21	72.81	64.41	134.73
	14N02W22A005M	390540N1220607W008	290-300					111.59	73.22	64.41	142.22	103.04	69.86	61.71	127.96
3	15N03W20Q001M	391330N1222165W001	370-410	Colusa	Farm	39°07'58.8"N 122°12'59.2"W	Pumphouse Rd & E Camp Rd	30.47	30.46	29.90	29.23	29.56	29.38	29.30	28.27
	15N03W20Q002M	391330N1222165W002	130-160					16.66	17.99	14.21	15.86	17.07	18.74	13.99	15.10
	15N03W20Q003M	391330N1222165W003	30-80					16.50	17.89	14.28	15.72	16.93	18.72	13.96	15.02
4	16N03W14H003M	392414N1221535W001	1370-1380, 1410-1420	Colusa	Farm	39°14'29.3"N 122°09'12.7"W	Pole Line Rd & 2 Mile Rd	2.41	2.27	2.52	2.27	2.32	1.99	1.97	1.75
	16N03W14H004M	392414N1221535W002	1140-1150, 1170-1180					17.70	16.97	16.18	14.63	14.44	14.08	13.68	12.28
	16N03W14H005M	392414N1221535W003	720-730					35.59	31.53	22.60	27.95	30.76	26.38	20.28	23.53
	16N03W14H006M	392414N1221535W004	295-305					20.62	14.48	8.88	15.28	19.76	13.48	9.02	14.43
5	16N02W05B001M	392753N1221057W001	730-750	Colusa	Farm	39°16'31.0"N 122°06'20.4"W	Maxwell Rd	32.12	25.53	17.59	26.56	31.04	23.56	16.27	23.72
	16N02W05B002M	392753N1221057W002	462-473					29.87	24.56	15.41	25.63	30.68	21.56	14.30	23.91
	16N02W05B003M	392753N1221057W003	461-471, 531-541, 611-631, 641-691, 711-771					19.40	12.18	9.12	19.84	19.49	10.99	8.32	17.37
6	17N02W09H002M	393417N1220838W001	779-800	Colusa	Farm	39°20'30.1"N 122°05'01.6"W	Willow Creek & 4 Mile Rd	20.64	16.22	7.79	18.36	18.71	13.91	7.42	15.92
	17N02W09H003M	393417N1220838W002	470-480, 510-520					22.75	6.27	5.85	17.19	16.28	3.02	5.14	14.34
	17N02W09H004M	393417N1220838W003	250-260						3.29	2.01	11.50	14.14	12.28	3.50	8.55
7	19N02W08Q001M	395157N1221122W001	856-876	Glenn	Farm	39°30'56.5"N 122°06'44.0"W	Hwy 162, Between Rd S & Rd R	57.40	47.59	37.98	43.02	55.07	45.15	36.97	41.14
	19N02W08Q002M	395157N1221122W002	208-218					8.92	5.18	7.77	10.19	10.27	5.24	5.98	8.72
	19N02W08Q003M	395157N1221122W003	77-87					7.55	3.89	7.25	5.06	7.73	2.87	6.71	4.80
8	20N02W25F001M	395595N1220326W001	940-960	Glenn	Farm	39°33'34.2"N 122°01'57.4"W	Sidds Rd, Between Rd W & Rd X	14.53	12.64	8.33	7.75	11.87	10.52	7.05	6.28
	20N02W25F002M	395595N1220326W002	420-430, 460-470					10.51	6.88	3.69	14.44	12.34	3.51	3.73	14.51
	20N02W25F003M	395595N1220326W003	190-200, 250-260					7.18	4.45	4.34	7.68	7.82	1.69	3.92	7.64
	20N02W25F004M	395595N1220326W004	55-65					5.23	3.07	4.92	3.19	5.58	2.61	3.98	3.34
9	21N02W01F001M	397043N1220387W001	547-557	Glenn	Farm	39°42'15.6"N 122°02'19.0"W	Rd VV & Rd 24	48.88	36.85	30.35	51.75	48.46	32.97	26.81	48.17
	21N02W01F002M	397043N1220387W002	297-307					40.74	32.80	27.11	62.40	41.79	27.84	24.86	42.96
	21N02W01F003M	397043N1220386W001	109-119					36.50	26.83	27.26	35.61	34.92	27.41	24.45	32.48
	21N02W01F004M	397043N1220386W002	55-65					36.03	33.65	26.60	33.85	33.44	26.95	23.67	31.02
10	21N02W33M001M	396299N1221007W001	869-890	Glenn	Farm	39°37'47.7"N 122°06'02.4"W	Co Rd S, Between Rd 31 & Rd 33	79.98	61.02	51.23	65.83	70.51	57.57	50.20	65.73
	21N02W33M002M	396299N1221007W002	540-550					75.99	61.36	42.30	61.00	67.89	47.29	40.30	59.50
	21N02W33M003M	396299N1221007W003	140-150					36.24	28.93	28.26	35.60	31.90	25.82	24.19	27.43
11	22N02W30H002M	397325N1221233W001	850-880	Glenn	Farm	39°43'56.8"N 122°07'24.0"W	Co Rd 18 & Rd Q	123.55	104.41	96.51	104.46	121.63	103.13	91.02	104.02
	22N02W30H004M	397325N1221233W003	45-55, 60-70					25.68	25.08	17.15	19.59	23.73	20.24	14.78	18.63
12	22N03W24E001M	397473N1221559W001	800-200	Glenn	Farm	39°44'50.4"N 122°09'21.2"W	Hwy 32, Between Rd N & Rd O	227.72	222.07	204.47	205.44	230.59	224.84	210.72	210.23
	22N03W24E002M	397473N1221559W002	130-150, 170-180					57.43	42.68	34.00	72.48	59.05	37.36	32.76	62.91
	22N03W24E003M	397473N1221559W003	49-59					23.04	23.73	16.06	22.01	22.49	17.88	15.63	21.20
	Butte														
13	18N01E35L001M	393678N1218288W001	816-836	Butte	Farm	39°22'02.8"N 121°49'40.4"W	Colusa Hwy & Cherokee Canal Rd	0.65	-0.99	-3.47	-0.20	0.40	-1.59	-3.46	-0.32
14	19N01E35B001M	394635N1218276W001	85-95, 125-135	Butte	Farm	39°27'48.4"N 121°49'39.9"W	Hwy 162 & Aguas Frias Rd	4.68	2.13	3.62	3.46	4.54	1.86	3.26	2.26
	19N01E35B002M	394634N1218278W001	930-950					-0.39	-1.68	-3.61	-2.56	-1.36	-2.62	-4.09	-2.26
	19N01E35B003M	394634N1218278W002	490-510					3.94	0.94	1.62	2.41	3.29	1.17	0.90	2.28
15	19N02E07K002M	395118N1217880W001	560-570	Butte	Farm	39°30'42.5"N 121°47'16.7"W	Bradford Rd & Aguas Frias Rd	4.48	3.64	1.58	4.19	3.46	2.09	0.63	3.89
	19N02E07K003M	395118N1217880W002	330-340					4.15	2.25	3.22	2.89	3.95	1.99	2.86	2.51
	19N02E07K004M	395118N1217880W003	140-150					4.60	2.33	3.14	3.01	3.87	2.05	2.84	2.59

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

Site	SWN	Site Code	Well Screen Range (ft)	County	Type	Coordinates	Site Description	Well Depth (feet below ground surface) Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-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	13.05	10.65	5.58	10.50	11.31	8.13	4.28	8.78
	20N01E18L002M	395771N1219083W001	510-530, 550-560					10.62	8.58	4.99	10.00	9.79	6.13	4.21	9.19
	20N01E18L003M	395771N1219083W002	98-108					7.35	4.67	3.32	5.01	6.25	2.52	2.73	4.35
17	21N01W24B001M	396655N1219250W001	800-820	Butte	Farm	39°39'55.9"N 121°55'30.1"W	River Rd & Ord Ferry Rd	29.25	23.00	16.34	26.54	28.06	19.78	14.61	27.85
18	17N01W10A001M	393437N1219519W001	770-780, 790-800	Colusa	Farm	39°20'37.6"N 121°57'07.0"W	Gridley Rd & E Glenn Rd	11.45	8.38	2.18	6.59	11.04	6.68	1.58	7.35
	17N01W10A002M	393437N1219519W002	380-390, 415-425					11.18	5.68	3.65	8.48	9.75	4.15	2.58	8.96
	17N01W10A003M	393437N1219519W003	148-158					6.17	1.04	3.88	1.77	4.83	1.20	2.67	2.00
	17N01W10A004M	393437N1219519W004	88-98					4.67	0.80	3.94	1.43	4.28	1.26	2.83	1.50
19	19N01W22D004M	394927N1219648W001	780-790	Glenn	Farm	39°29'33.7"N 121°57'53.3"W	Afton Blvd, Between Rd Y & Rd B	13.20	10.58	5.70	11.52	11.69	8.22	5.00	9.96
	19N01W22D005M	394927N1219648W002	520-530					19.04	13.05	7.45	27.49	17.89	10.09	6.54	22.93
	19N01W22D006M	394927N1219648W003	340-350					21.07	14.72	8.02	46.29	20.24	10.40	6.94	38.74
	19N01W22D007M	394927N1219648W004	80-90					22.72	16.16	8.07	27.49	22.37	11.18	6.85	22.77
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	19.86	19.58	18.22	17.91	20.11	19.94	18.46	17.62
	18N04E19D002M	394051N1215736W002	435-455, 557-577					27.20	25.74	23.07	23.22	26.89	25.70	23.36	22.33
	18N04E19D003M	394051N1215736W003	120-130, 190-200					58.51	40.46	32.77	56.51	56.85	38.03	31.59	46.03
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	63.03	58.41	52.02	63.85	60.92	55.31	49.83	58.46
	20N02E24C002M	395812N1217026W002	336-346, 367-377					62.07	57.87	52.05	64.99	60.57	55.27	49.87	58.15
	20N02E24C003M	395812N1217026W003	484-505					62.12	58.24	52.00	64.48	60.37	55.20	49.75	57.94
22	21N01E13L002M	396735N1218144W001	735-760	Butte	Farm	39°40'24.5"N 121°48'51.9"W	Nicholas C Shouten Ln	81.14	71.59	65.54	97.16	82.09	70.26	63.54	83.64
	21N01E13L003M	396735N1218144W002	540-560					81.00	71.61	65.49	99.97	82.40	70.23	63.44	81.16
	21N01E13L004M	396735N1218144W003	240-340					80.87	71.73	65.55	104.95	81.26	70.42	63.45	80.50
23	23N01W31M001M	398028N1220294W001	1020-1030	Butte	Farm	39°48'10.0"N 122°01'45.9"W	Wilson Landing Rd	39.85	26.90	17.37	35.01	41.73	26.01	16.59	30.48
	23N01W31M002M	398028N1220294W002	590-600					31.94	20.51	11.80	39.12	32.85	16.71	10.13	32.90
	23N01W31M003M	398028N1220294W003	969-979, 1020-1030					25.48	19.70	12.48	38.39	27.88	13.96	11.10	30.87
	23N01W31M004M	398028N1220294W004	66-76					21.87	20.25	15.40	19.60	21.66	12.99	14.76	18.50
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	40.40	31.95	23.53	31.77	40.47	30.28	22.51	22.00
	22N01W29N002M	397263N1220105W002	549-559, 595-605, 631-641					34.17	24.97	19.07	39.30	34.77	34.77	16.80	32.46
	22N01W29N003M	397263N1220105W003	189-199, 255-265, 320-330, 370-380					24.55	19.22	14.09	32.04	22.13	12.22	13.09	29.73
	22N01W29N004M	397263N1220105W004	88-99					17.97	15.47	10.81	17.67	17.74	11.60	10.00	16.92
25	22N02W15C002M	397634N1220771W001	760-781	Glenn	Farm	39°45'48.5"N 122°04'37.7"W	6th Ave, Between Co Rd 9 & Hwy 32	92.52	71.53	61.98	94.62	108.08	73.22	61.87	102.06
	22N02W15C003M	397634N1220771W002	370-380					70.60	49.84	40.92	85.10	74.49	45.45	37.84	77.36
	22N02W15C004M	397634N1220771W003	210-220					59.85	45.79	36.69	80.98	66.11	41.27	34.41	69.92
	22N02W15C005M	397634N1220771W004	60-70					41.53	34.92	23.88	34.25	37.16	28.80	22.13	30.92
26	22N04W01A001M	397974N1222523W001	680-700	Glenn	Farm	39°47'50.7"N 122°15'08.3"W	Between Sour Grass Rd & Co Rd 3	223.65	212.80	209.29	213.91	217.73	217.73	217.73	208.43
	22N04W01A002M	397974N1222523W002	520-530					141.43	151.65	147.25	152.46	156.71	156.81	156.81	147.28
	22N04W01A003M	397974N1222523W003	321-331					129.29	123.90	119.90	129.81	129.53	128.78	128.78	119.73
	22N04W01A004M	397974N1222523W004	40-50					9.02	9.07	9.62	8.65	9.36	9.75	9.75	10.01
27	24N03W15A001M	399408N1221823W001	740-750, 800-810, 840-850	Tehama	Farm	39°56'27.1"N 122°10'56.4"W	Gallagher Ave, Between State Hwy 99w & Houghton Ave	95.50	82.60	71.04	90.21	103.56	81.13	71.16	87.09
	24N03W15A002M	399408N1221823W002	480-490, 530-540, 590-600					93.80	81.70	69.43	84.06	95.83	79.22	68.24	80.43
	24N03W15A003M	399408N1221823W003	260-270					92.80	81.00	68.76	83.68	94.72	78.58	67.67	80.36
	24N03W15A004M	399408N1221823W004	470-190					92.90	81.40	69.17	83.06	94.53	79.00	68.03	79.80
Los Molinos															
28	26N02W22E003M	400921N1220855W002	730-750	Tehama	Farm	40°05'31.6"N 122°05'08.0"W	Shasta Blvd, Bwtween 3rd Ave & 68th Ave	29.10	28.83	27.20	29.06	30.99	28.24	26.74	27.48
	26N02W22E004M	410921N1210855W001	560-570, 620-630, 660-670					29.60	29.17	27.48	29.63	31.91	29.08	27.42	28.46
	26N02W22E005M	400921N1220855W003	100-110, 190-200					31.83	31.32	30.21	34.06	34.75	30.90	29.60	32.66
	26N02W22E006M	400921N1220855W001	40-50					33.60	34.77	33.40	37.66	33.05	29.39	27.63	29.84

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	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	Jun-25
	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	40.36	41.07	42.01	41.81	41.72	42.36
	25N05W13P003M	400163N1223809W002	385-395, 445-455, 535-555					76.65	76.65	76.65	77.34	79.10	77.98	76.48	76.46
	25N05W13P004M	400163N1223809W003	230-280					76.49	76.49	76.49	77.68	80.51	79.10	77.29	77.43
	25N05W13P005M	400163N1223809W004	100-110, 140-170					59.22	59.22	59.22	60.76	62.73	61.14	59.55	60.66
	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	50.58	36.77	30.32	49.04	53.99	34.65	28.33	49.76
	27N03W15N005M	401874N1221988W004	510-550					52.14	38.22	31.11	51.42	54.80	35.28	28.52	52.93
	27N03W15N006M	401874N1221988W006	290-300, 320-340					52.10	38.91	31.10	47.87	51.58	32.35	28.23	46.70
	27N03W15N007M	401874N1221988W008	120-140, 170-210					46.53	38.26	29.72	42.59	46.24	34.04	26.70	37.66
	27N03W15N008M	401874N1221988W010	65-85					39.52	37.14	27.78	32.28	38.84	33.05	24.33	28.83
	Anderson														
31	29N04W03R002M	403929N1222944W001	740-750	Shasta	Residential/ Farm	40°23'34.6"N 122°17'40.0"W	Gas Point Rd & Della Ln	70.40	68.45	65.60	68.56	69.46	67.44	65.16	68.08
	29N04W03R003M	403929N1222945W001	515-525, 590-600, 650-660					69.83	67.57	64.77	67.67	68.54	66.08	64.23	67.12
	29N04W03R004M	403929N1222945W002	380-390					69.13	67.37	64.42	65.89	67.11	65.28	63.55	64.85
	29N04W03R005M	403929N1222945W003	128-138, 178-188					75.28	74.84	70.20	72.95	73.80	70.56	69.31	72.15
	29N04W03R006M	403929N1222945W004	40-60					33.17	35.76	30.71	30.41	30.12	28.24	27.97	27.86
	Enterprise														
32	31N04W22P001M	405224N1223091W002	600-640	Shasta	Residential	40°31'20.6"N 122°18'32.9"W	Shasta View Dr & Bolam Creek Rd	94.70	90.80	88.63	93.15	94.54	92.64	91.57	93.52
	31N04W22P002M	405224N1223091W004	470-510					94.92	91.33	88.40	93.81	95.75	93.95	92.64	94.46
	31N04W22P003M	405224N1223091W006	170-210, 240-280					91.27	89.03	85.07	88.18	91.32	89.21	86.00	87.81
	31N04W22P004M	405224N1223091W008	85-105					91.58	88.96	85.47	87.85	92.13	89.48	85.56	87.28

Upcoming Events

Date	Event	Time	Location	Contact
Tuesday, July 15, 2025	**Prune Research Tour, Part 2**	8:00 a.m. - 12:00 p.m.	Corning and Chico Area	Jaime Ott, njott@ucanr.edu
Friday, July 18, 2025	**TTTF: Walnut Whole Orchard Recycling and Rootstocks field meeting**	8:00 a.m. - 11:00 a.m.	Pleasant Grove Rd near Wheatland 38.983433, -121.487319	Clarissa Reyes, clareyes@ucanr.edu

Resources

Weekly Evapotranspiration (ET) Report (view, request, tutorials): https://www.sacvalleyorchards.com/et-reports/

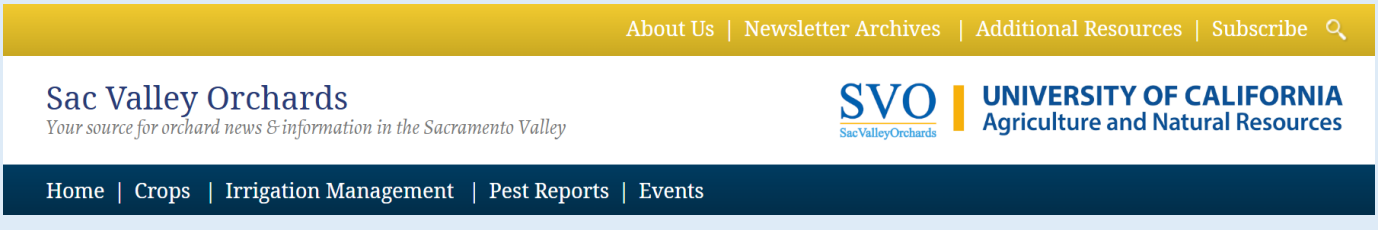
Northern Sierra Precipitation 8-Station Index: https://cdec.water.ca.gov/reportapp/javareports?name=PLOT_ESI.pdf

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

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



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Water Newsletter