



**WEEKLY CROP WATER USE - Based on local CIMIS Weather Stations (in inches)**  
 (Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
 03/31/23 through 04/06/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	3/31 - 4/6 Water Use	Accum'd Seasonal Water Use	4/7 - 4/13 Estimated ETc	3/31 - 4/6 Water Use	Accum'd Seasonal Water Use	4/7 - 4/13 Estimated ETc	3/31 - 4/6 Water Use	Accum'd Seasonal Water Use	4/7 - 4/13 Estimated ETc
Almonds (3/13) *	0.78	1.97	0.81	0.86	2.11	0.86	0.80	1.97	0.89
Pistachio (NA) * **	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Citrus (2/1)	0.75	4.14	0.77	0.80	4.42	0.79	0.77	4.20	0.82
Raisin Grapes (3/22) (11 ft. row spacing)	0.06	0.09	0.06	0.06	0.09	0.06	0.06	0.09	0.06
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.10	0.19	0.12	0.12	0.21	0.12	0.12	0.20	0.12
Walnuts (NA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stone Fruit (3/19)	0.40	0.76	0.42	0.42	0.76	0.44	0.41	0.75	0.47
<b>Past 7 days precipitation (inches)</b>		0.01			0.00			0.03	
<b>Accumulated precipitation (inches) (1/1/2023)</b>		15.98			12.32			15.50	

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

\* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.

\*\* Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.

\*\*\* Raisin Grapes and Winegrapes Irrigation should hold off until midday leaf water potential drops to -1.0 MPa, before that soil moisture reservoir is sufficient to supply the vine water demand. Update will be sent shortly once the county wide leaf water potential reaches approximate -1.0 MPa. Growers should adjust the irrigation start date based on the individual vineyard location and soil type.

**PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>**

Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	1.2	1.0	0.9	0.8	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8
Pistachio (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citrus (2/1)	1.2	1.0	0.9	0.8	1.2	1.1	0.9	0.8	1.2	1.0	0.9	0.8
Raisin Grapes (3/22) (11 ft. row spacing)***	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Walnuts (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stone Fruit (3/19)	0.6	0.5	0.5	0.4	0.6	0.6	0.5	0.4	0.6	0.5	0.5	0.4

<sup>1</sup> The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.

**PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE**

Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	283	236	213	189	307	260	236	213	283	260	213	189
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	296	247	222	197	296	272	222	197	296	247	222	197
Raisin Grapes 566 Vines/A	0	0	0	0	0	0	0	0	0	0	0	0
Winegrapes 622 Vines/A	0	0	0	0	0	0	0	0	0	0	0	0
Walnuts 76 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Stonefruit 172 Trees/A	95	79	79	63	95	95	79	63	95	79	79	63

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 (Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
 03/31/23 through 04/06/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	3/31 - 4/6 Water Use	Accum'd Seasonal Water Use	4/7 - 4/13 Estimated ET <sub>c</sub>	3/31 - 4/6 Water Use	Accum'd Seasonal Water Use	4/7 - 4/13 Estimated ET <sub>c</sub>	3/31 - 4/6 Water Use	Accum'd Seasonal Water Use	4/7 - 4/13 Estimated ET <sub>c</sub>
Almonds (3/13) *	0.83	2.07	0.94	0.82	2.05	1.00	0.88	2.24	0.99
Pistachio (NA) * **	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Citrus (2/1)	0.79	4.31	0.91	0.80	4.44	0.93	0.85	4.75	0.92
Raisin Grapes (3/22 ) (11 ft. row spacing)	0.06	0.09	0.06	0.05	0.09	0.06	0.06	0.09	0.06
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.11	0.20	0.12	0.11	0.20	0.12	0.12	0.22	0.12
Walnuts (NA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stone Fruit (3/19)	0.43	0.80	0.49	0.43	0.80	0.51	0.47	0.87	0.50
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	5.37			7.35			7.62		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop  
 \* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.  
 \*\* Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.  
 \*\*\* Raisin Grapes and Winegrapes Irrigation should hold off until midday leaf water potential drops to -1.0 MPa, before that soil moisture reservoir is sufficient to supply the vine water demand. Update will be sent shortly once the county wide leaf water potential reaches approximate -1.0 MPa. Growers should adjust the irrigation start date based on the individual vineyard location and soil type.

**PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>**

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.4	1.2	1.0	0.9
Pistachio (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citrus (2/1)	1.2	1.1	0.9	0.8	1.2	1.1	0.9	0.8	1.3	1.1	1.0	0.9
Raisin Grapes (3/22 ) (11 ft. row spacing)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Walnuts (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stone Fruit (3/19)	0.7	0.6	0.5	0.5	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5

<sup>1</sup> The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.

**PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE**

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	307	260	236	213	307	260	236	213	331	283	236	213
Almonds 115 Trees/A	307	260	236	213	307	260	236	213	331	283	236	213
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	296	272	222	197	296	272	222	197	321	272	247	222
Raisin Grapes 566 Vines/A	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0
Winegrapes 622 Vines/A	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0
Walnuts 76 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Stonefruit 172 Trees/A	111	95	79	79	111	95	79	79	111	95	95	79

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