

WEEKLY SOIL MOISTURE LOSS IN INCHES(Estimated Crop Evapotranspiration or ET_C)

04/21/23 through 04/27/23

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	4/21 - 4/27 Water Use	Accum'd Seasonal Water Use	4/28 - 5/4 Estimated ETc		4/21 - 4/27 Water Use	Accum'd Seasonal Water Use	4/28 - 5/4 Estimated ETc		4/21 - 4/27 Water Use	Accum'd Seasonal Water Use	4/28 - 5/4 Estimated ETc	
Almonds (3/13) *	1.22	5.03	1.21		1.29	5.38	1.21		1.26	4.98	1.34	
Pistachio (4/20) * **	0.42	0.42	0.56		0.43	0.43	0.56		0.41	0.41	0.64	
Citrus (2/1)	1.04	6.88	1.01		1.09	7.35	1.03		1.09	6.89	1.11	
Raisin Grapes (3/22) (11 ft. row spacing)	0.18	0.43	0.23		0.19	0.44	0.23		0.18	0.43	0.24	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.27	0.77	0.30		0.29	0.83	0.30		0.27	0.76	0.34	
Walnuts (4/20)	0.38	0.38	0.77		0.39	0.39	0.77		0.41	0.41	0.85	
Stone Fruit (3/19)	0.81	2.64	0.88		0.84	2.76	0.89		0.82	2.59	0.97	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2023)	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 ¹

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)	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.4	1.9	1.7	1.5	1.3
Pistachio (4/20)	0.6	0.6	0.5	0.4	0.7	0.6	0.5	0.5	0.6	0.5	0.5	0.4
Citrus (2/1)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.1	1.7	1.5	1.3	1.1
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 (4/20)	0.6	0.5	0.4	0.4	0.6	0.5	0.5	0.4	0.6	0.5	0.5	0.4
Stone Fruit (3/19)	1.2	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9

¹ 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	449	378	331	307	472	401	354	331	449	401	354	307
Pistachio 106 Trees/A	149	149	125	100	174	149	125	125	149	125	125	100
Citrus 110 Trees/A	395	346	296	272	420	370	321	272	420	370	321	272
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	214	179	143	143	214	179	179	143	214	179	179	143
Stonefruit 172 Trees/A	189	174	158	142	205	174	158	142	205	174	158	142

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

04/21/23 through 04/27/23

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	4/21 - 4/27 Water Use	Accum'd Seasonal Water Use	4/28 - 5/4 Estimated ETc		4/21 - 4/27 Water Use	Accum'd Seasonal Water Use	4/28 - 5/4 Estimated ETc		4/21 - 4/27 Water Use	Accum'd Seasonal Water Use	4/28 - 5/4 Estimated ETc	
Almonds (3/13) *	1.38	5.35	1.42		1.38	5.44	1.48		1.43	5.80	1.45	
Pistachio (4/20) * **	0.46	0.46	0.68		0.47	0.47	0.70		0.50	0.50	0.70	
Citrus (2/1)	1.19	7.24	1.18		1.21	7.50	1.24		1.25	7.95	1.21	
Raisin Grapes (3/22) (11 ft. row spacing)	0.18	0.42	0.24		0.18	0.43	0.24		0.19	0.46	0.24	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.27	0.78	0.34		0.27	0.81	0.34		0.29	0.86	0.34	
Walnuts (4/20)	0.41	0.41	0.89		0.40	0.40	0.91		0.42	0.42	0.91	
Stone Fruit (3/19)	0.89	2.81	1.05		0.90	2.89	1.11		0.92	3.05	1.08	
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.

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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	2.1	1.8	1.6	1.5	2.1	1.8	1.6	1.5	2.2	1.9	1.7	1.5
Pistachio (4/20)	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.8	0.7	0.6	0.5
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3
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	0.3
Walnuts (4/20)	0.6	0.5	0.5	0.4	0.6	0.5	0.5	0.4	0.6	0.6	0.5	0.4
Stone Fruit (3/19)	1.4	1.2	1.0	0.9	1.4	1.2	1.1	0.9	1.4	1.2	1.1	1.0

¹ 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			
Almonds 115 Trees/A	496	425	378	354	496	425	378	354	519	449	401	354
Pistachio 106 Trees/A	174	149	125	125	174	149	149	125	199	174	149	125
Citrus 110 Trees/A	444	395	346	321	469	395	346	321	469	420	370	321
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	13
Walnuts 76 Trees/A	214	179	179	143	214	179	179	143	214	214	179	143
Stonefruit 172 Trees/A	221	189	158	142	221	189	174	142	221	189	174	158

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