



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_C)
04/18/25 through 04/24/25

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	04/18 - 04/24 Water Use	Accum'd Seasonal Water Use	04/25 - 05/01 Estimated ETc	04/18 - 04/24 Water Use	Accum'd Seasonal Water Use	04/25 - 05/01 Estimated ETc	04/18 - 04/24 Water Use	Accum'd Seasonal Water Use	04/25 - 05/01 Estimated ETc
Almonds (3/1) *	1.03	5.30	1.15	1.16	5.55	1.17	1.11	5.04	1.18
Pistachio (4/25) * **	0.00	0.00	0.20	0.00	0.00	0.20	0.00	0.00	0.20
Citrus (2/1)	0.90	7.03	0.95	1.00	7.39	0.98	0.97	6.78	1.03
Raisin Grapes (4/14) (11 ft. row spacing)	0.28	0.38	0.38	0.32	0.43	0.38	0.31	0.39	0.40
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	0.32	0.46	0.40	0.37	0.51	0.42	0.35	0.46	0.44
Walnuts (4/14)	0.14	0.22	0.50	0.17	0.25	0.50	0.19	0.26	0.51
Stone Fruit (3/8)	0.55	2.14	0.74	0.63	2.37	0.76	0.59	2.16	0.77
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2025)	0.00			5.22			4.26		

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 (3/1)	1.6	1.4	1.2	1.1	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2
Pistachio (4/25)	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)	1.4	1.2	1.1	0.9	1.5	1.3	1.2	1.1	1.5	1.3	1.1	1.0
Raisin Grapes (4/14) (11 ft. row spacing)***	Assume all grape			0.3	Assume all grape			0.3	Assume all grape			0.3
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.3	irrigation type is drip			0.4	irrigation type is drip			0.4
Walnuts (4/14)	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2
Stone Fruit (3/8)	0.8	0.7	0.6	0.6	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6

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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	378	331	283	260	425	354	331	283	401	354	307	283
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	346	296	272	222	370	321	296	272	370	321	272	247
Raisin Grapes 566 Vines/A	Assume all grape			14	Assume all grape			14	Assume all grape			14
Winegrapes 622 Vines/A	irrigation type is drip			13	irrigation type is drip			17	irrigation type is drip			17
Walnuts 76 Trees/A	71	71	71	36	107	71	71	71	107	107	71	71
Stonefruit 172 Trees/A	126	111	95	95	158	126	111	111	142	126	111	95

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)
04/18/25 through 04/24/25

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	04/18- 04/24 Water Use	Accum'd Seasonal Water Use	04/25- 05/01 Estimated ETc	04/18- 04/24 Water Use	Accum'd Seasonal Water Use	04/25- 05/01 Estimated ETc	04/18- 04/24 Water Use	Accum'd Seasonal Water Use	04/25- 05/01 Estimated ETc
Almonds (3/1) *	1.19	5.25	1.30	1.15	5.38	1.38	1.28	5.79	1.36
Pistachio (4/25) * **	0.00	0.00	0.23	0.00	0.00	0.23	0.00	0.00	0.23
Citrus (2/1)	1.03	7.68	1.09	1.00	7.81	1.17	1.12	8.44	1.15
Raisin Grapes (4/14) (11 ft. row spacing)	0.32	0.45	0.44	0.32	0.44	0.46	0.36	0.48	0.44
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	0.37	0.54	0.47	0.37	0.52	0.50	0.41	0.57	0.50
Walnuts (4/14)	0.19	0.28	0.57	0.18	0.27	0.61	0.19	0.30	0.60
Stone Fruit (3/8)	0.62	2.40	0.84	0.61	2.33	0.89	0.68	2.48	0.87
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2025)	2.21			2.85			2.51		

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			
	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 (3/1)	1.8	1.6	1.4	1.3	1.8	1.5	1.4	1.2	2.0	1.7	1.5	1.3
Pistachio (4/25)	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)	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.1	1.7	1.5	1.3	1.2
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			0.3	Assume all grape			0.3	Assume all grape			0.4
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.4	irrigation type is drip			0.4	irrigation type is drip			0.4
Walnuts (4/14)	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2
Stone Fruit (3/8)	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6	1.0	0.9	0.8	0.7

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	425	378	331	307	425	354	331	283	472	401	354	307
Almonds 115 Trees/A	425	378	331	307	425	354	331	283	472	401	354	307
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	395	346	296	272	370	321	296	272	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			14	Assume all grape			14	Assume all grape			19
Winegrapes 622 Vines/A	irrigation type is drip			17	irrigation type is drip			17	irrigation type is drip			17
Walnuts 76 Trees/A	107	107	71	71	107	71	71	71	107	107	71	71
Stonefruit 172 Trees/A	158	126	111	111	142	126	111	95	158	142	126	111

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