

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
05/12/23 through 05/18/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/12 - 5/18 Water Use	Accum'd Seasonal Water Use	5/19 - 5/25 Estimated ETc	5/12 - 5/18 Water Use	Accum'd Seasonal Water Use	5/19 - 5/25 Estimated ETc	5/12 - 5/18 Water Use	Accum'd Seasonal Water Use	5/19 - 5/25 Estimated ETc
Almonds (3/13) *	1.69	9.09	1.79	1.90	9.00	1.93	1.97	10.25	1.93
Pistachio (4/20) * **	1.13	2.72	1.38	1.28	2.63	1.46	1.32	3.16	1.46
Citrus (2/1)	1.29	10.20	1.31	1.45	10.31	1.40	1.50	11.48	1.40
Raisin Grapes (3/22) (11 ft. row spacing)	0.64	1.54	0.83	0.73	1.55	0.89	0.74	1.79	0.89
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.62	1.98	0.79	0.71	1.99	0.85	0.74	2.28	0.85
Walnuts (4/20)	1.24	3.01	1.32	1.41	2.88	1.46	1.43	3.48	1.46
Stone Fruit (3/19)	1.35	5.68	1.47	1.52	5.64	1.61	1.57	6.46	1.61
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	6.12			7.65			7.90		

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.

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 (3/13)	2.6	2.3	2.0	1.8	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1
Pistachio (4/20)	1.7	1.5	1.3	1.2	2.0	1.7	1.5	1.3	2.0	1.8	1.6	1.4
Citrus (2/1)	2.0	1.7	1.5	1.4	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			0.7	Assume all grape			0.8	Assume all grape			0.8
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.7	irrigation type is drip			0.7	irrigation type is drip			0.8
Walnuts (4/20)	1.9	1.7	1.5	1.3	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Stone Fruit (3/19)	2.1	1.8	1.6	1.4	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.7

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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	614	543	472	425	685	590	519	472	708	614	543	496
Pistachio 106 Trees/A	424	374	324	299	498	424	374	324	498	448	399	349
Citrus 110 Trees/A	494	420	370	346	543	469	420	370	568	494	444	395
Raisin Grapes 566 Vines/A	Assume all grape			34	Assume all grape			38	Assume all grape			38
Winegrapes 622 Vines/A	irrigation type is drip			31	irrigation type is drip			31	irrigation type is drip			35
Walnuts 76 Trees/A	679	607	536	464	786	679	607	536	786	679	607	536
Stonefruit 172 Trees/A	332	284	253	221	363	316	284	253	379	332	284	268

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)

05/12/23 through 05/18/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/12 - 5/18 Water Use	Accum'd Seasonal Water Use	5/19 - 5/25 Estimated ETc	5/12 - 5/18 Water Use	Accum'd Seasonal Water Use	5/19 - 5/25 Estimated ETc	5/12 - 5/18 Water Use	Accum'd Seasonal Water Use	5/19 - 5/25 Estimated ETc
Almonds (3/13) *	1.61	8.76	1.71	1.73	9.47	1.78	1.69	8.84	1.71
Pistachio (4/20) * **	1.08	2.67	1.31	1.16	2.88	1.38	1.13	2.71	1.31
Citrus (2/1)	1.23	9.85	1.26	1.34	10.64	1.33	1.30	9.97	1.26
Raisin Grapes (3/22) (11 ft. row spacing)	0.68	1.69	0.88	0.74	1.83	0.91	0.72	1.75	0.88
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.65	2.07	0.81	0.71	2.26	0.83	0.70	2.11	0.81
Walnuts (4/20)	1.20	2.97	1.32	1.28	3.23	1.32	1.25	3.08	1.32
Stone Fruit (3/19)	1.25	5.45	1.40	1.35	5.85	1.47	1.32	5.52	1.40
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	16.25			12.53			15.57		

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.

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System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	2.5	2.1	1.9	1.7	2.7	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Pistachio (4/20)	1.7	1.4	1.3	1.1	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2
Citrus (2/1)	1.9	1.6	1.4	1.3	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			0.7	Assume all grape			0.8	Assume all grape			0.8
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.7	irrigation type is drip			0.7	irrigation type is drip			0.7
Walnuts (4/20)	1.8	1.6	1.4	1.3	2.0	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Stone Fruit (3/19)	1.9	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.0	1.8	1.6	1.4

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Winegrapes 622 Vines/A	irrigation type is drip			31	irrigation type is drip			31	irrigation type is drip			31
Walnuts 76 Trees/A	643	572	500	464	715	607	536	464	679	607	536	464
Stonefruit 172 Trees/A	300	268	237	205	332	284	253	221	316	284	253	221

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