

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/26/23 through 06/01/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/26 - 6/1 Water Use	Accum'd Seasonal Water Use	6/2 - 6/8 Estimated ETc	5/26 - 6/1 Water Use	Accum'd Seasonal Water Use	6/2 - 6/8 Estimated ETc	5/26 - 6/1 Water Use	Accum'd Seasonal Water Use	6/2 - 6/8 Estimated ETc
Almonds (3/13) *	1.50	11.84	1.81	1.63	12.78	1.81	1.58	12.10	1.81
Pistachio (4/20) * **	1.43	5.31	1.88	1.56	5.75	1.88	1.51	5.52	1.88
Citrus (2/1)	1.06	12.05	1.22	1.15	13.04	1.22	1.12	12.34	1.22
Raisin Grapes (3/22) (11 ft. row spacing)	0.95	3.54	1.24	1.06	3.84	1.24	1.01	3.71	1.24
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.89	3.77	1.18	0.97	4.11	1.18	0.94	3.94	1.18
Walnuts (4/20)	1.21	5.34	1.48	1.35	5.84	1.48	1.29	5.65	1.48
Stone Fruit (3/19)	1.23	7.98	1.58	1.34	8.59	1.58	1.31	8.22	1.58
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.

** 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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>												
Almonds (3/13)	2.3	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.4	2.1	1.9	1.7
Pistachio (4/20)	2.2	1.9	1.7	1.5	2.4	2.1	1.8	1.6	2.3	2.0	1.8	1.6
Citrus (2/1)	1.6	1.4	1.2	1.1	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.0	Assume all grape			1.1	Assume all grape			1.1
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.9	irrigation type is drip			1.0	irrigation type is drip			1.0
Walnuts (4/20)	1.9	1.6	1.4	1.3	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Stone Fruit (3/19)	1.9	1.6	1.4	1.3	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4

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	543	472	425	378	590	519	449	401	567	496	449	401
Pistachio 106 Trees/A	548	473	424	374	598	523	448	399	573	498	448	399
Citrus 110 Trees/A	395	346	296	272	444	370	346	296	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			48	Assume all grape			53	Assume all grape			53
Winegrapes 622 Vines/A	irrigation type is drip			39	irrigation type is drip			44	irrigation type is drip			44
Walnuts 76 Trees/A	679	572	500	464	750	643	572	500	715	607	536	500
Stonefruit 172 Trees/A	300	253	221	205	332	284	253	221	316	268	237	221

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)
05/26/23 through 06/01/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/26 - 6/1 Water Use	Accum'd Seasonal Water Use	6/2 - 6/8 Estimated ETc	5/26 - 6/1 Water Use	Accum'd Seasonal Water Use	6/2 - 6/8 Estimated ETc	5/26 - 6/1 Water Use	Accum'd Seasonal Water Use	6/2 - 6/8 Estimated ETc
Almonds (3/13) *	1.57	12.33	2.01	1.67	12.42	2.05	1.70	13.80	2.06
Pistachio (4/20) * **	1.50	5.51	2.08	1.57	5.55	2.12	1.61	6.19	2.13
Citrus (2/1)	1.10	12.52	1.35	1.16	12.74	1.36	1.18	14.00	1.37
Raisin Grapes (3/22) (11 ft. row spacing)	0.95	3.36	1.31	1.00	3.46	1.33	1.03	3.77	1.34
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.88	3.66	1.23	0.92	3.75	1.26	0.95	4.11	1.26
Walnuts (4/20)	1.28	5.53	1.65	1.36	5.55	1.66	1.40	6.26	1.67
Stone Fruit (3/19)	1.32	8.38	1.77	1.38	8.47	1.81	1.41	9.40	1.82
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

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	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)	2.4	2.1	1.8	1.7	2.6	2.2	2.0	1.8	2.6	2.3	2.0	1.8
Pistachio (4/20)	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.7	2.5	2.1	1.9	1.7
Citrus (2/1)	1.7	1.5	1.3	1.2	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.2
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.0	Assume all grape			1.1	Assume all grape			1.1
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.9	irrigation type is drip			0.9	irrigation type is drip			1.0
Walnuts (4/20)	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.2	1.9	1.6	1.5
Stone Fruit (3/19)	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.5	2.2	1.9	1.7	1.5

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Citrus 110 Trees/A	420	370	321	296	444	370	346	296	444	395	346	296
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Walnuts 76 Trees/A	715	607	536	464	750	643	572	500	786	679	572	536
Stonefruit 172 Trees/A	316	284	253	221	332	284	253	237	347	300	268	237

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