



**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
 (Estimated Crop Evapotranspiration or ET<sub>C</sub>)  
 05/20/22 through 05/26/22

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	5/20- 5/26 Water Use	Accum'd Seasonal Water Use	5/27 - 6/2 Estimated ETc		5/20- 5/26 Water Use	Accum'd Seasonal Water Use	5/27 - 6/2 Estimated ETc		5/20- 5/26 Water Use	Accum'd Seasonal Water Use	5/27 - 6/2 Estimated ETc
Almonds (3/1) *	1.78	12.43	1.89		1.78	12.68	1.82		1.74	12.33	1.75
Pistachio (4/8) * **	1.75	6.25	2.02		1.75	6.42	1.95		1.71	6.29	1.88
Citrus (2/1)	1.32	13.30	1.33		1.31	13.53	1.27		1.29	13.21	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	1.16	4.56	1.31		1.18	4.68	1.28		1.15	4.56	1.23
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.10	4.68	1.24		1.08	4.77	1.22		1.08	4.70	1.17
Walnuts (4/8)	1.62	7.99	1.72		1.62	8.28	1.65		1.58	8.12	1.58
Stone Fruit (3/10)	1.38	7.32	1.54		1.38	7.42	1.47		1.35	7.29	1.40
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.88				1.79				1.82		

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 <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 (3/1)	2.7	2.4	2.1	1.9		2.7	2.4	2.1	1.9		2.7	2.3	2.0	1.8
Pistachio (4/8)	2.7	2.3	2.1	1.8		2.7	2.3	2.1	1.8		2.6	2.3	2.0	1.8
Citrus (2/1)	2.0	1.8	1.6	1.4		2.0	1.7	1.5	1.4		2.0	1.7	1.5	1.4
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.2		Assume all grape			1.2		Assume all grape			1.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.2		irrigation type is drip			1.1		irrigation type is drip			1.1
Walnuts (4/8)	2.5	2.2	1.9	1.7		2.5	2.2	1.9	1.7		2.4	2.1	1.9	1.7
Stone Fruit (3/10)	2.1	1.8	1.6	1.5		2.1	1.8	1.6	1.5		2.1	1.8	1.6	1.4

<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			
	638	567	496	449		638	567	496	449		638	543	472	425
Almonds 115 Trees/A	638	567	496	449		638	567	496	449		638	543	472	425
Pistachio 106 Trees/A	673	573	523	448		673	573	523	448		648	573	498	448
Citrus 110 Trees/A	494	444	395	346		494	420	370	346		494	420	370	346
Raisin Grapes 566 Vines/A	Assume all grape			58		Assume all grape			58		Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			52		irrigation type is drip			48		irrigation type is drip			48
Walnuts 76 Trees/A	893	786	679	607		893	786	679	607		857	750	679	607
Stonefruit 172 Trees/A	332	284	253	237		332	284	253	237		332	284	253	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<sub>c</sub>)  
 05/20/22 through 05/26/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/20 - 5/26 Water Use	Accum'd Seasonal Water Use	5/27 - 6/2 Estimated ETc	5/20 - 5/26 Water Use	Accum'd Seasonal Water Use	5/27 - 6/2 Estimated ETc	5/20 - 5/26 Water Use	Accum'd Seasonal Water Use	5/27 - 6/2 Estimated ETc
Almonds (3/1) *	2.11	14.26	2.03	2.08	14.90	2.03	2.12	15.10	2.03
Pistachio (4/8) * **	2.05	7.08	2.16	2.02	7.33	2.16	2.06	7.45	2.16
Citrus (2/1)	1.52	14.88	1.40	1.50	15.66	1.40	1.53	15.55	1.40
Raisin Grapes (3/15) (11 ft. row spacing)	1.34	5.08	1.40	1.33	5.30	1.40	1.36	5.37	1.40
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.27	5.24	1.34	1.24	5.43	1.34	1.27	5.54	1.34
Walnuts (4/8)	1.90	9.07	1.86	1.88	9.45	1.86	1.91	9.62	1.86
Stone Fruit (3/10)	1.62	8.22	1.61	1.59	8.56	1.61	1.62	8.65	1.61
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.11			1.11			1.30		

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 <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 (3/1)	3.2	2.8	2.5	2.2	3.2	2.8	2.4	2.2	3.3	2.8	2.5	2.2
Pistachio (4/8)	3.2	2.7	2.4	2.2	3.1	2.7	2.4	2.1	3.2	2.7	2.4	2.2
Citrus (2/1)	2.3	2.0	1.8	1.6	2.3	2.0	1.8	1.6	2.4	2.0	1.8	1.6
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.4	Assume all grape			1.4
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.3	irrigation type is drip			1.3	irrigation type is drip			1.3
Walnuts (4/8)	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/10)	2.5	2.2	1.9	1.7	2.4	2.1	1.9	1.7	2.5	2.2	1.9	1.7

<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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	756	661	590	519	756	661	567	519	779	661	590	519
Pistachio 106 Trees/A	797	673	598	548	772	673	598	523	797	673	598	548
Citrus 110 Trees/A	568	494	444	395	568	494	444	395	592	494	444	395
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			67	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			57	irrigation type is drip			57	irrigation type is drip			57
Walnuts 76 Trees/A	1036	893	786	715	1036	893	786	715	1036	893	786	715
Stonefruit 172 Trees/A	395	347	300	268	379	332	300	268	395	347	300	268

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