



**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
05/17/24 through 05/23/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	05/17 - 05/23 Water Use	Accum'd Seasonal Water Use	05/24 - 05/30 Estimated ETc	05/17 - 05/23 Water Use	Accum'd Seasonal Water Use	05/24 - 05/30 Estimated ETc	05/17 - 05/23 Water Use	Accum'd Seasonal Water Use	05/24 - 05/30 Estimated ETc
Almonds (3/1) *	1.54	10.86	1.63	1.70	11.31	1.65	1.69	11.00	1.61
Pistachio (4/20) * **	1.02	2.71	1.39	1.13	2.89	1.41	1.11	2.83	1.37
Citrus (2/1)	1.12	11.06	1.13	1.23	11.60	1.15	1.22	11.27	1.12
Raisin Grapes (3/11) (11 ft. row spacing)	0.96	3.49	1.07	1.06	3.71	1.09	1.05	3.66	1.05
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.89	3.73	1.01	1.00	3.92	1.03	0.99	3.86	0.99
Walnuts (4/20)	1.12	3.03	1.15	1.21	3.21	1.17	1.19	3.22	1.15
Stone Fruit (3/11)	1.05	5.59	1.27	1.20	5.92	1.29	1.19	5.82	1.25
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2024)	14.98			8.98			9.71		

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

<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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	567	496	425	378	614	543	472	425	614	543	472	425
Pistachio 106 Trees/A	399	349	299	274	424	374	324	299	424	374	324	299
Citrus 110 Trees/A	420	370	321	296	469	395	346	321	469	395	346	321
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			48	irrigation type is drip			44
Walnuts 76 Trees/A	607	536	464	429	679	572	500	464	643	572	500	464
Stonefruit 172 Trees/A	253	221	189	174	284	253	221	205	284	253	221	205

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>)  
05/17/24 through 05/23/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	05/17- 05/23 Water Use	Accum'd Seasonal Water Use	05/24- 05/30 Estimated ETc		05/17- 05/23 Water Use	Accum'd Seasonal Water Use	05/24- 05/30 Estimated ETc		05/17- 05/23 Water Use	Accum'd Seasonal Water Use	05/24- 05/30 Estimated ETc	
Almonds (3/1) *	1.77	11.33	1.78		1.82	11.65	1.88		1.55	10.67	1.88	
Pistachio (4/20) * **	1.19	3.10	1.49		1.23	3.22	1.59		1.02	2.76	1.59	
Citrus (2/1)	1.29	11.97	1.26		1.33	12.43	1.30		1.12	11.54	1.30	
Raisin Grapes (3/11) (11 ft. row spacing)	1.11	3.84	1.16		1.15	3.98	1.22		0.95	3.52	1.22	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.00	4.04	1.09		1.04	4.16	1.14		0.88	3.72	1.14	
Walnuts (4/20)	1.28	3.39	1.29		1.33	3.54	1.35		1.10	3.11	1.35	
Stone Fruit (3/11)	1.24	6.25	1.37		1.27	6.35	1.46		1.07	5.71	1.46	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2024)	6.60				6.86				5.43			

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)	2.7	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.4	2.1	1.8	1.6
Pistachio (4/20)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.6	1.4	1.2	1.1
Citrus (2/1)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	1.7	1.5	1.3	1.2
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.2	Assume all grape			1.2	Assume all grape			1.0
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1	irrigation type is drip			1.1	irrigation type is drip			0.9
Walnuts (4/20)	2.0	1.7	1.5	1.3	2.0	1.8	1.6	1.4	1.7	1.5	1.3	1.2
Stone Fruit (3/11)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3	1.6	1.4	1.3	1.1

<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			
Almonds 115 Trees/A	638	567	496	449	661	567	496	449	567	496	425	378
Pistachio 106 Trees/A	448	399	349	324	473	399	349	324	399	349	299	274
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			58	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			48	irrigation type is drip			48	irrigation type is drip			39
Walnuts 76 Trees/A	715	607	536	464	715	643	572	500	607	536	464	429
Stonefruit 172 Trees/A	300	268	237	205	316	268	237	205	253	221	205	174

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