

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

(Estimated Crop Evapotranspiration or ET<sub>c</sub>)

06/02/23 through 06/08/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/2 - 6/8 Water Use	Accum'd Seasonal Water Use	6/9 - 6/15 Estimated ETc	6/2 - 6/8 Water Use	Accum'd Seasonal Water Use	6/9 - 6/15 Estimated ETc	6/2 - 6/8 Water Use	Accum'd Seasonal Water Use	6/9 - 6/15 Estimated ETc
Almonds (3/13) *	1.56	13.40	1.87	1.45	14.23	1.87	1.44	13.54	1.87
Pistachio (4/20) * **	1.60	6.91	2.06	1.50	7.25	2.06	1.48	7.00	2.06
Citrus (2/1)	1.05	13.10	1.22	0.99	14.03	1.22	0.98	13.32	1.22
Raisin Grapes (3/22) (11 ft. row spacing)	1.05	4.58	1.28	0.98	4.82	1.28	0.98	4.69	1.28
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.03	4.80	1.31	0.96	5.07	1.31	0.94	4.89	1.31
Walnuts (4/20)	1.27	6.61	1.57	1.18	7.02	1.57	1.17	6.82	1.57
Stone Fruit (3/19)	1.36	9.34	1.57	1.25	9.84	1.57	1.26	9.48	1.57
Past 7 days precipitation (inches)	0.00			0.00			0.15		
Accumulated precipitation (inches) (1/1/2023)	16.29			12.53			15.72		

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 (3/13)	2.4	2.1	1.8	1.6	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Pistachio (4/20)	2.5	2.1	1.9	1.7	2.3	2.0	1.8	1.6	2.3	2.0	1.7	1.6
Citrus (2/1)	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.0	1.5	1.3	1.2	1.0
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.1	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1	irrigation type is drip			1.0	irrigation type is drip			1.0
Walnuts (4/20)	2.0	1.7	1.5	1.3	1.8	1.6	1.4	1.2	1.8	1.6	1.4	1.2
Stone Fruit (3/19)	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3	1.9	1.7	1.5	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	519	449	401	354	519	449	401	354
Pistachio 106 Trees/A	623	523	473	424	573	498	448	399	573	498	424	399
Citrus 110 Trees/A	395	346	296	272	370	321	296	247	370	321	296	247
Raisin Grapes 566 Vines/A	Assume all grape			53	Assume all grape			48	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			48	irrigation type is drip			44	irrigation type is drip			44
Walnuts 76 Trees/A	715	607	536	464	643	572	500	429	643	572	500	429
Stonefruit 172 Trees/A	332	284	253	221	300	268	237	205	300	268	237	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>)  
06/16/23 through 06/22/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	6/16- 6/22 Water Use	Accum'd Seasonal Water Use	6/23 - 6/29 Estimated ETc	6/16- 6/22 Water Use	Accum'd Seasonal Water Use	6/23 - 6/29 Estimated ETc	6/16- 6/22 Water Use	Accum'd Seasonal Water Use	6/23 - 6/29 Estimated ETc
Almonds (3/13) *	2.11	17.79	2.15	2.00	17.68	2.24	2.14	19.52	2.29
Pistachio (4/20) * **	2.25	11.32	2.25	2.12	11.13	2.31	2.27	12.27	2.36
Citrus (2/1)	1.34	16.06	1.34	1.27	16.15	1.40	1.35	17.69	1.40
Raisin Grapes (3/22 ) (11 ft. row spacing)	1.43	7.00	1.44	1.35	6.97	1.49	1.44	7.59	1.53
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.50	7.33	1.50	1.41	7.26	1.55	1.50	7.95	1.59
Walnuts (4/20)	1.78	10.10	1.90	1.66	9.91	1.96	1.80	11.03	2.01
Stone Fruit (3/19)	1.90	13.17	1.90	1.79	13.08	1.96	1.92	14.43	2.01
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	6.18			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 <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 (3/13)	3.2	2.8	2.5	2.2	3.1	2.7	2.4	2.1	3.3	2.9	2.5	2.3
Pistachio (4/20)	3.5	3.0	2.6	2.4	3.3	2.8	2.5	2.2	3.5	3.0	2.7	2.4
Citrus (2/1)	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.4
Raisin Grapes (3/22 ) (11 ft. row spacing)	Assume all grape			1.5	Assume all grape			1.4	Assume all grape			1.5
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.6	irrigation type is drip			1.5	irrigation type is drip			1.6
Walnuts (4/20)	2.7	2.4	2.1	1.9	2.6	2.2	2.0	1.7	2.8	2.4	2.1	1.9
Stone Fruit (3/19)	2.9	2.5	2.2	2.0	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0

<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			
	756	661	590	519	732	638	567	496	779	685	590	543
Almonds 115 Trees/A	756	661	590	519	732	638	567	496	779	685	590	543
Pistachio 106 Trees/A	872	747	648	598	822	698	623	548	872	747	673	598
Citrus 110 Trees/A	518	444	395	346	494	420	370	321	518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape			67	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			70	irrigation type is drip			65	irrigation type is drip			70
Walnuts 76 Trees/A	965	857	750	679	929	786	715	607	1000	857	750	679
Stonefruit 172 Trees/A	458	395	347	316	442	379	332	300	474	410	363	316

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