

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

06/17/22 through 06/23/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/17 - 6/23 Water Use	Accum'd Seasonal Water Use	6/24 - 6/30 Estimated ETc	6/17 - 6/23 Water Use	Accum'd Seasonal Water Use	6/24 - 6/30 Estimated ETc	6/17 - 6/23 Water Use	Accum'd Seasonal Water Use	6/24 - 6/30 Estimated ETc
Almonds (3/1) *	1.89	19.80	2.59	1.90	20.42	2.31	1.75	19.43	2.38
Pistachio (4/8) * **	2.02	14.30	2.73	2.03	14.89	2.38	1.89	14.07	2.45
Citrus (2/1)	1.19	18.19	1.61	1.21	18.69	1.40	1.11	17.95	1.47
Raisin Grapes (3/15) (11 ft. row spacing)	1.30	9.71	1.73	1.32	10.12	1.55	1.22	9.50	1.61
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.44	10.07	1.96	1.45	10.45	1.73	1.33	9.90	1.79
Walnuts (4/8)	1.83	14.94	2.45	1.84	15.60	2.17	1.70	14.79	2.24
Stone Fruit (3/10)	1.60	13.49	2.31	1.60	13.92	2.03	1.49	13.22	2.10
Past 7 days precipitation (inches)	0.00			0.05			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.88			1.84			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)	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	2.7	2.3	2.1	1.8
Pistachio (4/8)	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	2.9	2.5	2.2	2.0
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.7	1.5	1.3	1.2
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.4	Assume all grape			1.3
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip			1.5	irrigation type is drip			1.4
Walnuts (4/8)	2.8	2.4	2.2	1.9	2.8	2.5	2.2	1.9	2.6	2.3	2.0	1.8
Stone Fruit (3/10)	2.5	2.1	1.9	1.7	2.5	2.1	1.9	1.7	2.3	2.0	1.8	1.6

<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	685	590	519	472	685	590	519	472	638	543	496	425
Pistachio 106 Trees/A	772	673	598	523	772	673	598	523	722	623	548	498
Citrus 110 Trees/A	444	395	346	321	469	395	346	321	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			67	Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			65	irrigation type is drip			61
Walnuts 76 Trees/A	1000	857	786	679	1000	893	786	679	929	822	715	643
Stonefruit 172 Trees/A	395	332	300	268	395	332	300	268	363	316	284	253

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>)  
06/17/22 through 06/23/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	6/17- 6/23 Water Use	Accum'd Seasonal Water Use	6/24 - 6/30 Estimated ETc	6/17- 6/23 Water Use	Accum'd Seasonal Water Use	6/24 - 6/30 Estimated ETc	6/17- 6/23 Water Use	Accum'd Seasonal Water Use	6/24 - 6/30 Estimated ETc
Almonds (3/1) *	2.13	22.64	2.73	2.15	23.71	2.73	2.17	24.02	2.66
Pistachio (4/8) * **	2.25	16.13	2.87	2.27	16.87	2.87	2.29	17.07	2.80
Citrus (2/1)	1.33	20.38	1.68	1.34	21.43	1.68	1.36	21.40	1.61
Raisin Grapes (3/15 ) (11 ft. row spacing)	1.45	10.87	1.84	1.48	11.42	1.84	1.50	11.56	1.79
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.58	11.26	2.04	1.61	11.76	2.04	1.62	11.93	1.98
Walnuts (4/8)	2.04	16.92	2.59	2.07	17.73	2.59	2.09	18.01	2.52
Stone Fruit (3/10)	1.79	15.15	2.45	1.81	15.87	2.45	1.83	16.04	2.38
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)	3.3	2.8	2.5	2.2	3.3	2.9	2.5	2.3	3.3	2.9	2.6	2.3
Pistachio (4/8)	3.5	3.0	2.6	2.4	3.5	3.0	2.7	2.4	3.5	3.1	2.7	2.4
Citrus (2/1)	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			1.5	Assume all grape			1.6	Assume all grape			1.6
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.7	irrigation type is drip			1.7	irrigation type is drip			1.7
Walnuts (4/8)	3.1	2.7	2.4	2.1	3.2	2.8	2.4	2.2	3.2	2.8	2.5	2.2
Stone Fruit (3/10)	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.8	2.4	2.2	1.9

<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			
	779	661	590	519	779	685	590	543	779	685	614	543
Almonds 115 Trees/A	779	661	590	519	779	685	590	543	779	685	614	543
Pistachio 106 Trees/A	872	747	648	598	872	747	673	598	872	772	673	598
Citrus 110 Trees/A	494	444	395	346	518	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape			77	Assume all grape			77
Winegrapes 622 Vines/A	irrigation type is drip			74	irrigation type is drip			74	irrigation type is drip			74
Walnuts 76 Trees/A	1108	965	857	750	1143	1000	857	786	1143	1000	893	786
Stonefruit 172 Trees/A	442	379	332	300	442	379	332	300	442	379	347	300

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