

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

05/06/22 through 05/12/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/6 - 5/12 Water Use	Accum'd Seasonal Water Use	5/13 - 5/19 Estimated ETc	5/6 - 5/12 Water Use	Accum'd Seasonal Water Use	5/13 - 5/19 Estimated ETc	5/6 - 5/12 Water Use	Accum'd Seasonal Water Use	5/13 - 5/19 Estimated ETc
Almonds (3/1) *	1.35	8.94	1.47	1.44	9.21	1.47	1.38	8.93	1.38
Pistachio (4/8) * **	0.96	3.06	1.20	1.04	3.26	1.20	0.99	3.19	1.13
Citrus (2/1)	1.08	10.65	1.10	1.16	10.92	1.10	1.10	10.63	1.05
Raisin Grapes (3/15) (11 ft. row spacing)	0.70	2.38	0.77	0.75	2.52	0.77	0.71	2.45	0.74
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.66	2.64	0.71	0.71	2.78	0.71	0.67	2.73	0.68
Walnuts (4/8)	1.21	4.81	1.30	1.31	5.14	1.30	1.24	5.04	1.23
Stone Fruit (3/10)	0.96	4.69	1.05	1.02	4.82	1.05	0.99	4.73	1.01
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)	2.1	1.8	1.6	1.4	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.5
Pistachio (4/8)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.0
Citrus (2/1)	1.7	1.4	1.3	1.1	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			0.7	Assume all grape			0.8	Assume all grape			0.8
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.7	irrigation type is drip			0.7	irrigation type is drip			0.7
Walnuts (4/8)	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.4	1.9	1.7	1.5	1.3
Stone Fruit (3/10)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.0

<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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	496	425	378	331	519	449	401	354	496	425	378	354
Pistachio 106 Trees/A	374	324	274	249	399	349	299	274	374	324	299	249
Citrus 110 Trees/A	420	346	321	272	444	370	346	296	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			34	Assume all grape			38	Assume all grape			38
Winegrapes 622 Vines/A	irrigation type is drip			31	irrigation type is drip			31	irrigation type is drip			31
Walnuts 76 Trees/A	679	572	500	464	715	607	536	500	679	607	536	464
Stonefruit 172 Trees/A	237	205	174	158	253	221	189	174	237	205	189	158

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>)  
05/06/22 through 05/12/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/6 - 5/12 Water Use	Accum'd Seasonal Water Use	5/13 - 5/19 Estimated ETc	5/6 - 5/12 Water Use	Accum'd Seasonal Water Use	5/13 - 5/19 Estimated ETc	5/6 - 5/12 Water Use	Accum'd Seasonal Water Use	5/13 - 5/19 Estimated ETc
Almonds (3/1) *	1.49	10.17	1.65	1.56	10.77	1.65	1.58	10.95	1.65
Pistachio (4/8) * **	1.07	3.39	1.36	1.13	3.61	1.36	1.14	3.71	1.36
Citrus (2/1)	1.18	11.86	1.26	1.25	12.61	1.26	1.28	12.50	1.26
Raisin Grapes (3/15 ) (11 ft. row spacing)	0.76	2.60	0.88	0.81	2.78	0.89	0.81	2.84	0.89
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.71	2.93	0.82	0.75	3.10	0.83	0.77	3.20	0.83
Walnuts (4/8)	1.34	5.40	1.49	1.40	5.75	1.50	1.42	5.90	1.50
Stone Fruit (3/10)	1.06	5.19	1.19	1.11	5.52	1.19	1.12	5.59	1.19
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.11			1.11			1.30		

\* 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)	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.4	2.1	1.9	1.7
Pistachio (4/8)	1.6	1.4	1.3	1.1	1.7	1.5	1.3	1.2	1.8	1.5	1.3	1.2
Citrus (2/1)	1.8	1.6	1.4	1.2	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			0.8	Assume all grape			0.9	Assume all grape			0.9
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.7	irrigation type is drip			0.7	irrigation type is drip			0.8
Walnuts (4/8)	2.1	1.8	1.6	1.4	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5
Stone Fruit (3/10)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2

<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			
	543	472	425	378	567	496	425	378	567	496	449	401
Almonds 115 Trees/A	543	472	425	378	567	496	425	378	567	496	449	401
Pistachio 106 Trees/A	399	349	324	274	424	374	324	299	448	374	324	299
Citrus 110 Trees/A	444	395	346	296	469	420	370	321	494	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			38	Assume all grape			43	Assume all grape			43
Winegrapes 622 Vines/A	irrigation type is drip			31	irrigation type is drip			31	irrigation type is drip			35
Walnuts 76 Trees/A	750	643	572	500	786	679	572	536	786	679	607	536
Stonefruit 172 Trees/A	253	221	189	174	268	237	205	189	268	237	205	189

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.