

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

05/13/22 through 05/19/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/13 - 5/19 Water Use	Accum'd Seasonal Water Use	5/20 - 5/26 Estimated ETc	5/13 - 5/19 Water Use	Accum'd Seasonal Water Use	5/20 - 5/26 Estimated ETc	5/13 - 5/19 Water Use	Accum'd Seasonal Water Use	5/20 - 5/26 Estimated ETc
Almonds (3/1) *	1.71	10.65	2.13	1.69	10.90	1.88	1.66	10.59	1.88
Pistachio (4/8) * **	1.44	4.50	2.10	1.41	4.67	1.85	1.39	4.58	1.85
Citrus (2/1)	1.33	11.98	1.55	1.30	12.22	1.38	1.29	11.92	1.38
Raisin Grapes (3/15) (11 ft. row spacing)	1.01	3.39	1.35	0.99	3.50	1.22	0.97	3.42	1.22
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.94	3.58	1.25	0.91	3.69	1.11	0.89	3.62	1.11
Walnuts (4/8)	1.56	6.37	1.96	1.52	6.66	1.72	1.50	6.54	1.72
Stone Fruit (3/10)	1.25	5.94	1.64	1.22	6.04	1.46	1.21	5.94	1.46
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 >>												
Almonds (3/1)	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Pistachio (4/8)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.1	1.9	1.6	1.5
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			1.1	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.0	irrigation type is drip			1.0	irrigation type is drip			0.9
Walnuts (4/8)	2.4	2.1	1.8	1.6	2.3	2.0	1.8	1.6	2.3	2.0	1.8	1.6
Stone Fruit (3/10)	1.9	1.7	1.5	1.3	1.9	1.6	1.4	1.3	1.9	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	614	543	472	425	614	543	472	425	614	519	472	401
Pistachio 106 Trees/A	548	473	424	374	548	473	424	374	523	473	399	374
Citrus 110 Trees/A	494	444	395	346	494	420	370	346	494	420	370	346
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			44	irrigation type is drip			44	irrigation type is drip			39
Walnuts 76 Trees/A	857	750	643	572	822	715	643	572	822	715	643	572
Stonefruit 172 Trees/A	300	268	237	205	300	253	221	205	300	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>)

05/13/22 through 05/19/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/13 - 5/19 Water Use	Accum'd Seasonal Water Use	5/20 - 5/26 Estimated ETc	5/13 - 5/19 Water Use	Accum'd Seasonal Water Use	5/20 - 5/26 Estimated ETc	5/13 - 5/19 Water Use	Accum'd Seasonal Water Use	5/20 - 5/26 Estimated ETc
Almonds (3/1) *	1.98	12.15	2.30	2.05	12.82	2.15	2.03	12.98	2.15
Pistachio (4/8) * **	1.64	5.03	2.25	1.70	5.31	2.10	1.68	5.39	2.10
Citrus (2/1)	1.50	13.36	1.63	1.55	14.16	1.54	1.52	14.02	1.54
Raisin Grapes (3/15 ) (11 ft. row spacing)	1.14	3.74	1.44	1.20	3.98	1.35	1.17	4.01	1.35
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.05	3.98	1.32	1.09	4.19	1.24	1.08	4.28	1.24
Walnuts (4/8)	1.77	7.17	2.05	1.82	7.57	1.96	1.81	7.71	1.96
Stone Fruit (3/10)	1.41	6.60	1.74	1.45	6.97	1.64	1.44	7.03	1.64
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)	3.0	2.6	2.3	2.1	3.2	2.7	2.4	2.2	3.1	2.7	2.4	2.1
Pistachio (4/8)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.8
Citrus (2/1)	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.3	2.0	1.8	1.6
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			1.2	Assume all grape			1.3	Assume all grape			1.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1	irrigation type is drip			1.1	irrigation type is drip			1.1
Walnuts (4/8)	2.7	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Stone Fruit (3/10)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5

<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	708	614	543	496	756	638	567	519	732	638	567
Pistachio 106 Trees/A	623	548	473	424	648	573	498	448	648	548	498	448
Citrus 110 Trees/A	568	494	444	395	592	518	444	395	568	494	444	395
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			62	Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			48	irrigation type is drip			48	irrigation type is drip			48
Walnuts 76 Trees/A	965	857	750	679	1000	857	750	679	1000	857	750	679
Stonefruit 172 Trees/A	347	300	268	237	347	300	268	237	347	300	268	237

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