

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

04/22/22 through 04/28/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	4/22 - 4/28 Water Use	Accum'd Seasonal Water Use	4/29 - 5/5 Estimated ETc	4/22 - 4/28 Water Use	Accum'd Seasonal Water Use	4/29 - 5/5 Estimated ETc	4/22 - 4/28 Water Use	Accum'd Seasonal Water Use	4/29 - 5/5 Estimated ETc
Almonds (3/1) *	1.17	6.22	1.24	1.18	6.38	1.27	1.15	6.14	1.34
Pistachio (4/8) * **	0.62	1.22	0.81	0.62	1.32	0.82	0.61	1.29	0.86
Citrus (2/1)	1.01	8.42	1.05	1.01	8.59	1.06	0.98	8.34	1.12
Raisin Grapes (3/15) (11 ft. row spacing)	0.36	1.04	0.42	0.36	1.11	0.42	0.36	1.10	0.42
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.40	1.39	0.45	0.41	1.47	0.47	0.40	1.44	0.48
Walnuts (4/8)	0.98	2.36	1.13	0.98	2.57	1.15	0.97	2.52	1.22
Stone Fruit (3/10)	0.75	2.86	0.81	0.74	2.92	0.83	0.73	2.85	0.86
Past 7 days precipitation (inches)	0.13			0.05			0.17		
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)	1.8	1.6	1.4	1.2	1.8	1.6	1.4	1.2	1.8	1.5	1.4	1.2
Pistachio (4/8)	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6
Citrus (2/1)	1.6	1.3	1.2	1.1	1.6	1.3	1.2	1.1	1.5	1.3	1.2	1.0
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			0.4	Assume all grape			0.4	Assume all grape			0.4
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.4	irrigation type is drip			0.4	irrigation type is drip			0.4
Walnuts (4/8)	1.5	1.3	1.2	1.0	1.5	1.3	1.2	1.0	1.5	1.3	1.1	1.0
Stone Fruit (3/10)	1.2	1.0	0.9	0.8	1.1	1.0	0.9	0.8	1.1	1.0	0.9	0.8

<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			
	425	378	331	283	425	378	331	283	425	354	331	283
Almonds 115 Trees/A	425	378	331	283	425	378	331	283	425	354	331	283
Pistachio 106 Trees/A	249	199	174	174	249	199	174	174	224	199	174	149
Citrus 110 Trees/A	395	321	296	272	395	321	296	272	370	321	296	247
Raisin Grapes 566 Vines/A	Assume all grape			19	Assume all grape			19	Assume all grape			19
Winegrapes 622 Vines/A	irrigation type is drip			17	irrigation type is drip			17	irrigation type is drip			17
Walnuts 76 Trees/A	536	464	429	357	536	464	429	357	536	464	393	357
Stonefruit 172 Trees/A	189	158	142	126	174	158	142	126	174	158	142	126

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>)  
 04/22/22 through 04/28/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	4/22 - 4/28 Water Use	Accum'd Seasonal Water Use	4/29 - 5/5 Estimated ETc	4/22 - 4/28 Water Use	Accum'd Seasonal Water Use	4/29 - 5/5 Estimated ETc	4/22 - 4/28 Water Use	Accum'd Seasonal Water Use	4/29 - 5/5 Estimated ETc
Almonds (3/1) *	1.29	7.14	1.44	1.32	7.60	1.49	1.31	7.71	1.46
Pistachio (4/8) * **	0.69	1.36	0.90	0.69	1.46	0.94	0.70	1.51	0.91
Citrus (2/1)	1.10	9.40	1.20	1.13	10.02	1.25	1.12	9.85	1.22
Raisin Grapes (3/15 ) (11 ft. row spacing)	0.38	1.13	0.43	0.38	1.21	0.47	0.38	1.26	0.44
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.43	1.53	0.49	0.44	1.64	0.53	0.43	1.67	0.50
Walnuts (4/8)	1.07	2.68	1.29	1.10	2.90	1.33	1.09	2.99	1.30
Stone Fruit (3/10)	0.82	3.17	0.90	0.83	3.40	0.91	0.83	3.45	0.91
Past 7 days precipitation (inches)	0.08			0.00			0.01		
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)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Pistachio (4/8)	1.1	0.9	0.8	0.7	1.1	0.9	0.8	0.7	1.1	0.9	0.8	0.7
Citrus (2/1)	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			0.4	Assume all grape			0.4	Assume all grape			0.4
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.5	irrigation type is drip			0.5	irrigation type is drip			0.5
Walnuts (4/8)	1.6	1.4	1.3	1.1	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.1
Stone Fruit (3/10)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9

<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			
	Almonds 115 Trees/A	472	401	354	331	472	425	378	331	472	401	354
Pistachio 106 Trees/A	274	224	199	174	274	224	199	174	274	224	199	174
Citrus 110 Trees/A	420	370	321	296	420	370	321	296	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			19	Assume all grape			19	Assume all grape			19
Winegrapes 622 Vines/A	irrigation type is drip			22	irrigation type is drip			22	irrigation type is drip			22
Walnuts 76 Trees/A	572	500	464	393	607	536	464	429	607	536	464	393
Stonefruit 172 Trees/A	205	174	158	142	205	174	158	142	205	174	158	142

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