



**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

04/28/23 through 05/04/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	4/28 - 5/4 Water Use	Accum'd Seasonal Water Use	5/5 - 5/11 Estimated ETc	4/28 - 5/4 Water Use	Accum'd Seasonal Water Use	5/5 - 5/11 Estimated ETc	4/28 - 5/4 Water Use	Accum'd Seasonal Water Use	5/5 - 5/11 Estimated ETc
Almonds (3/13) *	0.95	5.98	1.34	1.12	6.50	1.35	1.07	6.05	1.47
Pistachio (4/20) * **	0.46	0.88	0.79	0.54	0.97	0.79	0.52	0.93	0.86
Citrus (2/1)	0.80	7.68	1.05	0.95	8.30	1.05	0.90	7.79	1.17
Raisin Grapes (3/22) (11 ft. row spacing)	0.22	0.65	0.36	0.27	0.71	0.36	0.26	0.69	0.38
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.26	1.04	0.42	0.32	1.16	0.42	0.31	1.07	0.44
Walnuts (4/20)	0.59	0.97	0.92	0.71	1.10	0.93	0.67	1.08	1.00
Stone Fruit (3/19)	0.66	3.30	1.04	0.80	3.56	1.05	0.76	3.35	1.10
Past 7 days precipitation (inches)	0.25			0.21			0.07		
Accumulated precipitation (inches) (1/1/2023)	16.23			12.53			15.57		

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 (3/13)	1.5	1.3	1.1	1.0	1.7	1.5	1.3	1.2	1.6	1.4	1.3	1.1
Pistachio (4/20)	0.7	0.6	0.5	0.5	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.5
Citrus (2/1)	1.2	1.1	0.9	0.8	1.5	1.3	1.1	1.0	1.4	1.2	1.1	0.9
Raisin Grapes (3/22) (11 ft. row spacing)***	Assume all grape			0.2	Assume all grape			0.3	Assume all grape			0.3
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.3	irrigation type is drip			0.3	irrigation type is drip			0.3
Walnuts (4/20)	0.9	0.8	0.7	0.6	1.1	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Stone Fruit (3/19)	1.0	0.9	0.8	0.7	1.2	1.1	0.9	0.8	1.2	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			
	Almonds 115 Trees/A	354	307	260	236	401	354	307	283	378	331	307
Pistachio 106 Trees/A	174	149	125	125	199	174	149	149	199	174	149	125
Citrus 110 Trees/A	296	272	222	197	370	321	272	247	346	296	272	222
Raisin Grapes 566 Vines/A	Assume all grape			10	Assume all grape			14	Assume all grape			14
Winegrapes 622 Vines/A	irrigation type is drip			13	irrigation type is drip			13	irrigation type is drip			13
Walnuts 76 Trees/A	322	286	250	214	393	322	286	250	357	322	286	250
Stonefruit 172 Trees/A	158	142	126	111	189	174	142	126	189	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>)

04/28/23 through 05/04/23

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	4/28 - 5/4 Water Use	Accum'd Seasonal Water Use	5/5 - 5/11 Estimated ETc		4/28 - 5/4 Water Use	Accum'd Seasonal Water Use	5/5 - 5/11 Estimated ETc		4/28 - 5/4 Water Use	Accum'd Seasonal Water Use	5/5 - 5/11 Estimated ETc
Almonds (3/13) *	0.89	6.24	1.57		1.07	6.51	1.57		1.22	7.02	1.57
Pistachio (4/20) * **	0.43	0.89	0.93		0.52	0.99	0.93		0.59	1.09	0.93
Citrus (2/1)	0.76	8.00	1.26		0.89	8.39	1.26		1.02	8.97	1.26
Raisin Grapes (3/22 ) (11 ft. row spacing)	0.19	0.60	0.36		0.22	0.65	0.37		0.26	0.71	0.36
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.23	1.01	0.46		0.29	1.10	0.47		0.32	1.18	0.46
Walnuts (4/20)	0.56	0.97	1.03		0.67	1.07	1.04		0.77	1.19	1.03
Stone Fruit (3/19)	0.64	3.45	1.19		0.78	3.67	1.19		0.90	3.95	1.19
Past 7 days precipitation (inches)	0.75				0.30				0.28		
Accumulated precipitation (inches) (1/1/2023)	6.12				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.

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**PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>**

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	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
System Efficiency >>>														
Almonds (3/13)	1.4	1.2	1.0	0.9		1.6	1.4	1.3	1.1		1.9	1.6	1.4	1.3
Pistachio (4/20)	0.7	0.6	0.5	0.5		0.8	0.7	0.6	0.5		0.9	0.8	0.7	0.6
Citrus (2/1)	1.2	1.0	0.9	0.8		1.4	1.2	1.0	0.9		1.6	1.4	1.2	1.1
Raisin Grapes (3/22 ) (11 ft. row spacing)	Assume all grape			0.2		Assume all grape			0.2		Assume all grape			0.3
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.2		irrigation type is drip			0.2		irrigation type is drip			0.3
Walnuts (4/20)	0.9	0.7	0.7	0.6		1.0	0.9	0.8	0.7		1.2	1.0	0.9	0.8
Stone Fruit (3/19)	1.0	0.9	0.8	0.7		1.2	1.0	0.9	0.8		1.4	1.2	1.1	0.9

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Pistachio 106 Trees/A	174	149	125	125		199	174	149	125		224	199	174	149
Citrus 110 Trees/A	296	247	222	197		346	296	247	222		395	346	296	272
Raisin Grapes 566 Vines/A	Assume all grape			10		Assume all grape			10		Assume all grape			14
Winegrapes 622 Vines/A	irrigation type is drip			9		irrigation type is drip			9		irrigation type is drip			13
Walnuts 76 Trees/A	322	250	250	214		357	322	286	250		429	357	322	286
Stonefruit 172 Trees/A	158	142	126	111		189	158	142	126		221	189	174	142

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