

WEEKLY SOIL MOISTURE LOSS IN INCHES(Estimated Crop Evapotranspiration or ET_C)

06/16/23 through 06/22/23

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	6/16 - 6/22 Water Use	Accum'd Seasonal Water Use	6/23 - 6/29 Estimated ETc		6/16 - 6/22 Water Use	Accum'd Seasonal Water Use	6/23 - 6/29 Estimated ETc		6/16 - 6/22 Water Use	Accum'd Seasonal Water Use	6/23 - 6/29 Estimated ETc
Almonds (3/13) *	1.85	16.83	2.04		1.99	17.97	1.98		1.98	17.23	1.98
Pistachio (4/20) * **	1.98	10.60	2.16		2.13	11.30	2.10		2.12	10.98	2.10
Citrus (2/1)	1.16	15.27	1.26		1.26	16.42	1.26		1.26	15.69	1.26
Raisin Grapes (3/22) (11 ft. row spacing)	1.27	6.93	1.36		1.35	7.36	1.31		1.33	7.18	1.31
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.33	7.23	1.48		1.43	7.73	1.46		1.43	7.51	1.46
Walnuts (4/20)	1.55	9.51	1.81		1.66	10.16	1.75		1.65	9.92	1.75
Stone Fruit (3/19)	1.68	12.37	1.81		1.79	13.11	1.75		1.77	12.70	1.75
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2023)	16.33				12.53				15.76		

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 ¹

Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	2.8	2.5	2.2	1.9	3.1	2.7	2.3	2.1	3.0	2.6	2.3	2.1
Pistachio (4/20)	3.0	2.6	2.3	2.1	3.3	2.8	2.5	2.2	3.3	2.8	2.5	2.2
Citrus (2/1)	1.8	1.5	1.4	1.2	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.3	Assume all grape			1.4	Assume all grape			1.4
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.4	irrigation type is drip			1.5	irrigation type is drip			1.5
Walnuts (4/20)	2.4	2.1	1.8	1.6	2.6	2.2	2.0	1.7	2.5	2.2	1.9	1.7
Stone Fruit (3/19)	2.6	2.2	2.0	1.8	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9

¹ 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	661	590	519	449	732	638	543	496	708	614	543	496
Pistachio 106 Trees/A	747	648	573	523	822	698	623	548	822	698	623	548
Citrus 110 Trees/A	444	370	346	296	469	420	370	321	469	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			62	Assume all grape			67	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			65	irrigation type is drip			65
Walnuts 76 Trees/A	857	750	643	572	929	786	715	607	893	786	679	607
Stonefruit 172 Trees/A	410	347	316	284	442	379	332	300	426	379	332	300

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

