

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.

Crops	#148 Merced	#39 Parlier	#258 Lemon Cove
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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%.

Crops	#148 Merced	#39 Parlier	#258 Lemon Cove
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WEEKLY SOIL MOISTURE LOSS IN INCHES												
(Estimated Crop Evapotranspiration or ET _c)												
09/12/25 through 09/18/25												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	09/12- 09/18 Water Use	Accum'd Seasonal Water Use	09/19- 09/25 Estimated ETc		09/12- 09/18 Water Use	Accum'd Seasonal Water Use	09/19- 09/25 Estimated ETc		09/12- 09/18 Water Use	Accum'd Seasonal Water Use	09/19- 09/25 Estimated ETc	
Almonds (3/1) *	1.32	44.42	1.28		1.42	45.77	1.38		1.43	47.35	1.36	
Pistachio (4/25) * **	1.23	37.28	1.20		1.33	38.35	1.30		1.34	39.32	1.28	
Citrus (2/1)	0.95	36.08	0.98		1.03	37.14	1.02		1.04	38.59	1.00	
Raisin Grapes (4/14) (11 ft. row spacing)	0.90	26.07	0.90		0.97	26.85	0.99		0.98	27.70	0.97	
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	1.02	28.44	1.02		1.11	29.30	1.11		1.11	30.13	1.09	
Walnuts (4/14)	1.23	36.35	1.20		1.33	37.32	1.30		1.34	38.34	1.28	
Stone Fruit (3/8)	1.39	38.11	1.41		1.49	39.15	1.51		1.50	40.28	1.49	
Past 7 days precipitation (inches)	0.04				0.00				0.13			
Accumulated precipitation (inches) (1/1/2025)	2.36				3.15				2.85			

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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹												
Crops	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.0	1.8	1.6	1.4	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Pistachio (4/25)	1.9	1.6	1.4	1.3	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Citrus (2/1)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			0.9	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1	irrigation type is drip			1.2	irrigation type is drip			1.2
Walnuts (4/14)	1.9	1.6	1.4	1.3	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Stone Fruit (3/8)	2.1	1.9	1.6	1.5	2.3	2.0	1.8	1.6	2.3	2.0	1.8	1.6

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE												
Crops	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	472	425	378	331	519	449	401	354	519	449	401	354
Pistachio 106 Trees/A	473	399	349	324	498	448	399	349	523	448	399	349
Citrus 110 Trees/A	370	321	272	247	395	346	296	272	395	346	296	272
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			48	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			48	irrigation type is drip			52	irrigation type is drip			52
Walnuts 76 Trees/A	679	572	500	464	715	643	572	500	750	643	572	500
Stonefruit 172 Trees/A	332	300	253	237	363	316	284	253	363	316	284	253

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