

08/20/21 through 08/26/21

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	8/20 - 8/26	Accum'd	8/27 - 9/2		8/20 - 8/26	Accum'd	8/27 - 9/2		8/20 - 8/26	Accum'd	8/27 - 9/2	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/5) *	1.60	36.91	1.72		1.69	39.39	1.56		1.37	36.62	1.60	
Pistachio (4/16) * **	1.61	31.35	1.72		1.70	33.77	1.62		1.40	31.09	1.64	
Citrus (2/1)	0.95	28.68	1.08		1.02	30.38	0.98		0.82	28.33	1.00	
Raisin Grapes (3/12) (11 ft. row spacing)	1.22	24.90	1.30		1.29	26.90	1.26		1.07	24.75	1.26	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.40	27.28	1.51		1.49	29.45	1.41		1.20	27.07	1.43	
Walnuts (4/5)	1.60	33.58	1.60		1.69	36.02	1.50		1.38	33.29	1.52	
Stone Fruit (3/10)	1.61	29.90	1.72		1.70	32.23	1.62		1.40	29.68	1.64	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2021)	5.54				3.66				3.90			

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.

** 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 (3/5)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.1	1.8	1.6	1.4
Pistachio (4/16)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.2	1.9	1.6	1.5
Citrus (2/1)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.3	1.1	1.0	0.9
Raisin Grapes (3/12) (11 ft. row spacing)***	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.4	1.6	1.4	1.3	1.1
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.2	1.9	1.6	1.5	2.3	2.0	1.8	1.6	1.8	1.6	1.4	1.3
Walnuts (4/5)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.1	1.8	1.6	1.5
Stone Fruit (3/10)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.2	1.9	1.6	1.5

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	590	496	449	401	614	543	472	425	496	425	378	331
Pistachio 106 Trees/A	623	523	473	424	648	573	498	448	548	473	399	374
Citrus 110 Trees/A	370	321	272	247	395	346	296	272	321	272	247	222
Raisin Grapes 566 Vines/A	91	77	67	62	96	82	72	67	77	67	62	53
Winegrapes 622 Vines/A	96	83	70	65	100	87	79	70	79	70	61	57
Walnuts 76 Trees/A	893	750	679	607	929	822	715	643	750	643	572	536
Stonefruit 172 Trees/A	395	332	300	268	410	363	316	284	347	300	253	237

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