

WEEKLY SOIL MOISTURE LOSS IN INCHES														
(Estimated Crop Evapotranspiration or ET _C)														
09/15/23 through 09/21/23														
Crops (Leafout Date)	#148 Merced					#39 Parlier					#258 Lemon Cove			
	9/15 - 9/21	Accum'd	9/22 - 9/28			9/15 - 9/21	Accum'd	9/22 - 9/28			9/15 - 9/21	Accum'd	9/22 - 9/28	
	Water	Seasonal	Estimated			Water	Seasonal	Estimated			Water	Seasonal	Estimated	
	Use	Water Use	ETc			Use	Water Use	ETc			Use	Water Use	ETc	
Almonds (3/13) *	1.23	39.18	1.15			1.28	41.21	1.09			1.11	39.92	1.05	
Pistachio (4/20) * **	1.17	33.46	1.08			1.22	35.13	1.02			1.06	34.30	0.98	
Citrus (2/1)	0.80	29.24	0.77			0.83	30.94	0.73			0.72	29.88	0.70	
Raisin Grapes (3/22) (11 ft. row spacing)	0.84	21.83	0.80			0.88	22.89	0.77			0.76	22.36	0.77	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	0.94	24.06	0.92			0.99	25.26	0.87			0.86	24.64	0.83	
Walnuts (4/20)	1.23	31.86	1.12			1.29	33.47	1.09			1.12	32.69	1.05	
Stone Fruit (3/19)	1.32	34.79	1.29			1.37	36.47	1.23			1.19	35.56	1.19	
Past 7 days precipitation (inches)	0.00					0.00					0.00			
Accumulated precipitation (inches) (1/1/2023)	19.11					13.13					16.68			
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)	1.9	1.6	1.4	1.3		2.0	1.7	1.5	1.3		1.7	1.5	1.3	1.2
Pistachio (4/20)	1.8	1.6	1.4	1.2		1.9	1.6	1.4	1.3		1.6	1.4	1.2	1.1
Citrus (2/1)	1.2	1.1	0.9	0.8		1.3	1.1	1.0	0.9		1.1	1.0	0.8	0.8
Raisin Grapes (3/22) (11 ft. row spacing)***	Assume all grape			0.9		Assume all grape			0.9		Assume all grape			0.8
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.0		irrigation type is drip			1.0		irrigation type is drip			0.9
Walnuts (4/20)	1.9	1.6	1.4	1.3		2.0	1.7	1.5	1.4		1.7	1.5	1.3	1.2
Stone Fruit (3/19)	2.0	1.8	1.6	1.4		2.1	1.8	1.6	1.4		1.8	1.6	1.4	1.3
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	449	378	331	307		472	401	354	307		401	354	307	283
Pistachio 106 Trees/A	448	399	349	299		473	399	349	324		399	349	299	274
Citrus 110 Trees/A	296	272	222	197		321	272	247	222		272	247	197	197
Raisin Grapes 566 Vines/A	Assume all grape			43		Assume all grape			43		Assume all grape			38
Winegrapes 622 Vines/A	irrigation type is drip			44		irrigation type is drip			44		irrigation type is drip			39
Walnuts 76 Trees/A	679	572	500	464		715	607	536	500		607	536	464	429
Stonefruit 172 Trees/A	316	284	253	221		332	284	253	221		284	253	221	205
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.														

09/15/23 through 09/21/23

* 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	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	2.0	1.7	1.5	1.3	1.8	1.6	1.4	1.3	2.1	1.8	1.6	1.4
Pistachio (4/20)	1.9	1.6	1.4	1.3	1.8	1.5	1.4	1.2	2.0	1.7	1.5	1.4
Citrus (2/1)	1.2	1.1	1.0	0.9	1.2	1.0	0.9	0.8	1.3	1.1	1.0	0.9
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			0.9	Assume all grape			0.9	Assume all grape			1.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.0	irrigation type is drip			1.0	irrigation type is drip			1.1
Walnuts (4/20)	2.0	1.7	1.5	1.4	1.9	1.6	1.4	1.3	2.1	1.8	1.6	1.4
Stone Fruit (3/19)	2.1	1.8	1.6	1.5	2.0	1.7	1.5	1.4	2.2	1.9	1.7	1.5

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	472	401	354	307	425	378	331	307	496	425	378	331
Pistachio 106 Trees/A	473	399	349	324	448	374	349	299	498	424	374	349
Citrus 110 Trees/A	296	272	247	222	296	247	222	197	321	272	247	222
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			43	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			44	irrigation type is drip			44	irrigation type is drip			48
Walnuts 76 Trees/A	715	607	536	500	679	572	500	464	750	643	572	500
Stonefruit 172 Trees/A	332	284	253	237	316	268	237	221	347	300	268	237

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