

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
09/17/21 through 09/23/21

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	9/17 - 9/23 Water Use	Accum'd Seasonal Water Use	9/24 - 9/30 Estimated ETc		9/17 - 9/23 Water Use	Accum'd Seasonal Water Use	9/24 - 9/30 Estimated ETc		9/17 - 9/23 Water Use	Accum'd Seasonal Water Use	9/24 - 9/30 Estimated ETc	
Almonds (3/5) *	1.30	42.91	1.11		1.28	45.69	1.07		1.01	42.24	1.08	
Pistachio (4/16) * **	1.17	37.16	1.02		1.15	39.86	0.98		0.92	36.54	0.99	
Citrus (2/1)	0.82	32.72	0.75		0.81	34.57	0.71		0.65	32.09	0.72	
Raisin Grapes (3/12) (11 ft. row spacing)	1.04	29.65	0.92		1.02	31.83	0.91		0.81	29.15	0.91	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.17	32.66	1.04		1.15	35.08	1.00		0.94	32.11	1.01	
Walnuts (4/5)	1.10	38.95	0.87		1.08	41.63	0.83		0.87	38.33	0.84	
Stone Fruit (3/10)	1.38	36.12	1.25		1.36	38.73	1.21		1.09	35.50	1.22	
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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3	1.6	1.3	1.2	1.1
Pistachio (4/16)	1.8	1.6	1.4	1.2	1.8	1.5	1.4	1.2	1.4	1.2	1.1	1.0
Citrus (2/1)	1.3	1.1	1.0	0.9	1.2	1.1	1.0	0.9	1.0	0.9	0.8	0.7
Raisin Grapes (3/12) (11 ft. row spacing)***	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.2	1.1	1.0	0.9
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.8	1.6	1.4	1.2	1.8	1.5	1.4	1.2	1.4	1.3	1.1	1.0
Walnuts (4/5)	1.7	1.5	1.3	1.2	1.7	1.4	1.3	1.1	1.3	1.2	1.0	0.9
Stone Fruit (3/10)	2.1	1.8	1.6	1.5	2.1	1.8	1.6	1.4	1.7	1.5	1.3	1.1

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	472	401	354	331	472	401	354	307	378	307	283	260
Pistachio 106 Trees/A	448	399	349	299	448	374	349	299	349	299	274	249
Citrus 110 Trees/A	321	272	247	222	296	272	247	222	247	222	197	173
Raisin Grapes 566 Vines/A	77	67	58	53	77	67	58	53	58	53	48	43
Winegrapes 622 Vines/A	79	70	61	52	79	65	61	52	61	57	48	44
Walnuts 76 Trees/A	607	536	464	429	607	500	464	393	464	429	357	322
Stonefruit 172 Trees/A	332	284	253	237	332	284	253	221	268	237	205	174

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_c)
09/17/21 through 09/23/21

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	9/17 - 9/23 Water Use	Accum'd Seasonal Water Use	9/24- 9/30 Estimated ETc		9/17 - 9/23 Water Use	Accum'd Seasonal Water Use	9/24- 9/30 Estimated ETc		9/17 - 9/23 Water Use	Accum'd Seasonal Water Use	9/24- 9/30 Estimated ETc
Almonds (3/5) *	1.42	48.71	1.19		1.50	49.27	1.30		1.51	50.31	1.25
Pistachio (4/16) * **	1.28	42.86	1.10		1.36	42.83	1.21		1.37	44.05	1.16
Citrus (2/1)	0.87	37.10	0.79		0.94	37.97	0.88		0.96	38.30	0.85
Raisin Grapes (3/12) (11 ft. row spacing)	1.14	34.15	0.98		1.20	34.18	1.09		1.21	35.14	1.04
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.28	37.68	1.12		1.36	37.80	1.23		1.37	38.79	1.18
Walnuts (4/5)	1.21	44.70	0.93		1.25	44.85	1.02		1.25	45.90	0.99
Stone Fruit (3/10)	1.49	41.50	1.33		1.57	41.78	1.44		1.58	42.81	1.39
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83				4.72				3.06		

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	#124 Panoche					#2 Five Points					#15 Stratford			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	2.2	1.9	1.7	1.5		2.3	2.0	1.8	1.6		2.3	2.0	1.8	1.6
Pistachio (4/16)	2.0	1.7	1.5	1.3		2.1	1.8	1.6	1.4		2.1	1.8	1.6	1.4
Citrus (2/1)	1.3	1.2	1.0	0.9		1.4	1.3	1.1	1.0		1.5	1.3	1.1	1.0
Raisin Grapes (3/12) (11 ft. row spacing)	1.8	1.5	1.3	1.2		1.8	1.6	1.4	1.3		1.9	1.6	1.4	1.3
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.0	1.7	1.5	1.3		2.1	1.8	1.6	1.4		2.1	1.8	1.6	1.4
Walnuts (4/5)	1.9	1.6	1.4	1.3		1.9	1.7	1.5	1.3		1.9	1.7	1.5	1.3
Stone Fruit (3/10)	2.3	2.0	1.8	1.6		2.4	2.1	1.8	1.7		2.4	2.1	1.9	1.7

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	#124 Panoche					#2 Five Points					#15 Stratford			
	519	449	401	354		543	472	425	378		543	472	425	378
Almonds 115 Trees/A	519	449	401	354		543	472	425	378		543	472	425	378
Pistachio 106 Trees/A	498	424	374	324		523	448	399	349		523	448	399	349
Citrus 110 Trees/A	321	296	247	222		346	321	272	247		370	321	272	247
Raisin Grapes 566 Vines/A	86	72	62	58		86	77	67	62		91	77	67	62
Winegrapes 622 Vines/A	87	74	65	57		92	79	70	61		92	79	70	61
Walnuts 76 Trees/A	679	572	500	464		679	607	536	464		679	607	536	464
Stonefruit 172 Trees/A	363	316	284	253		379	332	284	268		379	332	300	268

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