



**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
 (Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
 05/03/19 through 05/09/19

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	5/3 - 5/9 Water Use	Accum'd Seasonal Water Use	5/10 - 5/16 Estimated ETc		5/3 - 5/9 Water Use	Accum'd Seasonal Water Use	5/10 - 5/16 Estimated ETc		5/3 - 5/9 Water Use	Accum'd Seasonal Water Use	5/10 - 5/16 Estimated ETc	
Almonds (3/10) *	1.23	6.99	1.34		1.33	7.70	1.32		1.29	7.29	1.27	
Pistachio (4/19) * **	0.55	1.21	0.76		0.61	1.31	0.74		0.59	2.50	0.71	
Citrus (2/1)	1.05	8.79	1.08		1.14	9.58	1.07		1.10	8.92	1.05	
Raisin Grapes (3/16) (11 ft. row spacing)	0.82	2.35	0.94		0.89	2.52	0.92		0.86	2.42	0.87	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.75	2.60	0.84		0.81	2.88	0.83		0.79	2.76	0.80	
Walnuts (4/15)	0.80	1.64	0.99		0.87	1.82	0.97		0.85	1.74	0.92	
Stone Fruit (3/20)	0.74	2.92	0.84		0.80	3.24	0.83		0.78	3.02	0.80	
Past 7 days precipitation (inches)	0.00				0.00				0.05			
Accumulated precipitation (inches) (1/1/19)	8.82				5.78				8.73			

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 <sup>1</sup>**

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 (3/10)	1.9	1.6	1.4	1.3	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Pistachio (4/19)	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.6
Citrus (2/1)	1.6	1.4	1.2	1.1	1.8	1.5	1.3	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	1.3	1.1	1.0	0.9	1.4	1.2	1.0	0.9	1.3	1.1	1.0	0.9
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.2	1.0	0.9	0.8	1.2	1.1	1.0	0.9	1.2	1.1	0.9	0.8
Walnuts (4/15)	1.2	1.1	0.9	0.8	1.3	1.2	1.0	0.9	1.3	1.1	1.0	0.9
Stone Fruit (3/20)	1.1	1.0	0.9	0.8	1.2	1.1	0.9	0.8	1.2	1.0	0.9	0.8

<sup>1</sup> 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	425	378	331	472	401	354	331
Pistachio 106 Trees/A	199	174	149	149	199	174	149	149	199	174	149	149
Citrus 110 Trees/A	395	346	296	272	444	370	321	296	420	370	321	296
Raisin Grapes 566 Vines/A	62	53	48	43	67	58	48	43	62	53	48	43
Winegrapes 622 Vines/A	52	44	39	35	52	48	44	39	52	48	39	35
Walnuts 76 Trees/A	429	393	322	286	464	429	357	322	464	393	357	322
Stonefruit 172 Trees/A	174	158	142	126	189	174	142	126	189	158	142	126

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<sub>c</sub>)  
 05/03/19 through 05/09/19

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/3 - 5/9 Water Use	Accum'd Seasonal Water Use	5/10 - 5/16 Estimated ETc	5/3 - 5/9 Water Use	Accum'd Seasonal Water Use	5/10 - 5/16 Estimated ETc	5/3 - 5/9 Water Use	Accum'd Seasonal Water Use	5/10 - 5/16 Estimated ETc
Almonds (3/10) *	1.42	7.93	1.52	1.37	8.66	1.52	1.37	8.32	1.52
Pistachio (4/19) * **	0.66	1.40	0.85	0.62	1.36	0.85	0.62	1.38	0.85
Citrus (2/1)	1.23	9.82	1.26	1.16	10.97	1.26	1.16	10.12	1.26
Raisin Grapes (3/16) (11 ft. row spacing)	0.97	2.76	1.08	0.93	2.87	1.10	0.93	2.82	1.09
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.90	3.10	1.01	0.86	3.29	1.03	0.86	3.17	1.02
Walnuts (4/15)	0.92	1.88	1.10	0.88	1.88	1.12	0.89	1.89	1.11
Stone Fruit (3/20)	0.86	3.34	0.94	0.81	3.56	0.96	0.82	3.50	0.95
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/19)	4.03			5.52			4.14		

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 <sup>1</sup>**

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 (3/10)	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Pistachio (4/19)	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7
Citrus (2/1)	1.9	1.6	1.4	1.3	1.8	1.5	1.4	1.2	1.8	1.5	1.4	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	1.5	1.3	1.1	1.0	1.4	1.2	1.1	1.0	1.4	1.2	1.1	1.0
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.4	1.2	1.1	0.9	1.4	1.2	1.1	0.9	1.3	1.1	1.0	0.9
Walnuts (4/15)	1.4	1.2	1.1	1.0	1.4	1.2	1.0	0.9	1.4	1.2	1.0	0.9
Stone Fruit (3/20)	1.3	1.1	1.0	0.9	1.2	1.1	1.0	0.9	1.3	1.1	1.0	0.9

<sup>1</sup> 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			
	Almonds 115 Trees/A	519	449	401	354	496	425	378	331	496	425	378
Pistachio 106 Trees/A	249	224	199	174	249	199	174	174	249	199	174	174
Citrus 110 Trees/A	469	395	346	321	444	370	346	296	444	370	346	296
Raisin Grapes 566 Vines/A	72	62	53	48	67	58	53	48	67	58	53	48
Winegrapes 622 Vines/A	61	52	48	39	61	52	48	39	57	48	44	39
Walnuts 76 Trees/A	500	429	393	357	500	429	357	322	500	429	357	322
Stonefruit 172 Trees/A	205	174	158	142	189	174	158	142	205	174	158	142

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