



**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
05/24/19 through 05/30/19

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	5/24 - 5/30 Water Use	Accum'd Seasonal Water Use	5/31 - 6/6 Estimated ETc		5/24 - 5/30 Water Use	Accum'd Seasonal Water Use	5/31 - 6/6 Estimated ETc		5/24 - 5/30 Water Use	Accum'd Seasonal Water Use	5/31 - 6/6 Estimated ETc
Almonds (3/10) *	1.25	10.24	1.69		1.17	11.07	1.68		1.16	10.30	1.64
Pistachio (4/19) * **	0.89	3.29	1.51		0.83	3.46	1.51		0.82	3.18	1.47
Citrus (2/1)	0.90	11.30	1.19		0.85	12.19	1.19		0.85	11.26	1.15
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.01	4.96	1.34		0.95	5.23	1.33		0.95	4.87	1.33
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	0.97	5.01	1.33		0.91	5.41	1.33		0.89	4.99	1.29
Walnuts (4/15)	0.96	4.06	1.41		0.90	4.34	1.40		0.90	3.98	1.36
Stone Fruit (3/20 )	0.90	5.12	1.28		0.82	5.47	1.28		0.81	5.01	1.24
<b>Past 7 days precipitation (inches)</b>	0.20				0.68				0.66		
<b>Accumulated precipitation (inches) (1/1/2018)</b>	11.08				7.89				10.81		

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	1.7	1.5	1.3		1.8	1.6	1.4	1.2		1.8	1.5	1.4	1.2
Pistachio (4/19)	1.4	1.2	1.0	0.9		1.4	1.2	1.0	0.9		1.4	1.2	1.0	0.9
Citrus (2/1)	1.4	1.2	1.1	0.9		1.3	1.1	1.0	0.9		1.3	1.1	1.0	0.9
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.6	1.3	1.2	1.1		1.5	1.3	1.1	1.0		1.5	1.3	1.1	1.0
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.5	1.3	1.1	1.0		1.4	1.2	1.1	1.0		1.4	1.2	1.0	0.9
Walnuts (4/15)	1.5	1.3	1.1	1.0		1.4	1.2	1.1	0.9		1.4	1.2	1.1	0.9
Stone Fruit (3/20 )	1.4	1.2	1.1	0.9		1.3	1.1	1.0	0.9		1.2	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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	449	401	354	307		425	378	331	283		425	354	331	283
Almonds 115 Trees/A	449	401	354	307		425	378	331	283		425	354	331	283
Pistachio 106 Trees/A	349	299	249	224		349	299	249	224		349	299	249	224
Citrus 110 Trees/A	346	296	272	222		321	272	247	222		321	272	247	222
Raisin Grapes 566 Vines/A	77	62	58	53		72	62	53	48		72	62	53	48
Winegrapes 622 Vines/A	65	57	48	44		61	52	48	44		61	52	44	39
Walnuts 76 Trees/A	536	464	393	357		500	429	393	322		500	429	393	322
Stonefruit 172 Trees/A	221	189	174	142		205	174	158	142		189	174	158	142

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>)  
 05/24/19 through 05/30/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	5/24 - 5/30 Water Use	Accum'd Seasonal Water Use	5/31 - 6/6 Estimated ETc		5/24 - 5/30 Water Use	Accum'd Seasonal Water Use	5/31 - 6/6 Estimated ETc		5/24 - 5/30 Water Use	Accum'd Seasonal Water Use	5/31 - 6/6 Estimated ETc
Almonds (3/10) *	1.42	11.53	1.85		1.35	12.29	1.92		1.21	11.39	1.93
Pistachio (4/19) * **	1.03	3.73	1.62		0.96	3.69	1.69		0.86	3.37	1.70
Citrus (2/1)	1.05	12.66	1.28		1.00	13.79	1.35		0.89	12.53	1.36
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.16	5.62	1.51		1.09	5.73	1.54		0.98	5.26	1.54
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.10	5.74	1.44		1.03	5.97	1.51		0.92	5.43	1.52
Walnuts (4/15)	1.11	4.58	1.51		1.05	4.62	1.58		0.94	4.20	1.59
Stone Fruit (3/20 )	1.01	5.76	1.38		0.97	6.00	1.42		0.86	5.58	1.43
<b>Past 7 days precipitation (inches)</b>	0.10				0.35				0.20		
<b>Accumulated precipitation (inches) (1/1/2018)</b>	4.80				7.42				7.08		

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

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Almonds 115 Trees/A	519	449	401	354	496	425	378	331	449	378	331	307
Pistachio 106 Trees/A	399	349	299	274	374	324	274	249	324	274	249	224
Citrus 110 Trees/A	395	346	296	272	370	321	296	272	346	296	247	222
Raisin Grapes 566 Vines/A	86	72	67	58	82	72	62	53	72	62	58	48
Winegrapes 622 Vines/A	74	65	57	52	74	65	57	52	61	52	48	44
Walnuts 76 Trees/A	607	536	464	429	572	500	429	393	500	464	393	357
Stonefruit 172 Trees/A	253	205	189	174	237	205	174	158	205	174	158	142

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