



**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
06/14/19 through 06/20/19

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/14- 6/20 Water Use	Accum'd Seasonal Water Use	6/21- 6/27 Estimated ETc	6/14- 6/20 Water Use	Accum'd Seasonal Water Use	6/21- 6/27 Estimated ETc	6/14- 6/20 Water Use	Accum'd Seasonal Water Use	6/21- 6/27 Estimated ETc
Almonds (3/10) *	1.80	15.54	1.99	1.95	16.66	1.94	1.94	15.79	1.94
Pistachio (4/19) * **	1.95	8.53	2.15	2.12	9.01	2.10	2.11	8.66	2.10
Citrus (2/1)	1.18	14.85	1.26	1.29	15.95	1.26	1.28	14.99	1.26
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.52	9.43	1.61	1.64	9.94	1.61	1.63	9.52	1.61
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.66	9.68	1.80	1.79	10.35	1.75	1.80	9.89	1.75
Walnuts (4/15)	1.56	8.48	1.66	1.69	9.02	1.61	1.68	8.59	1.61
Stone Fruit (3/20 )	1.44	9.29	1.66	1.56	9.86	1.61	1.56	9.35	1.61
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2019)	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)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.0
Pistachio (4/19)	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1
Citrus (2/1)	1.8	1.6	1.4	1.2	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.3	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	2.6	2.2	2.0	1.7	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Walnuts (4/15)	2.4	2.1	1.8	1.6	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.8
Stone Fruit (3/20 )	2.2	1.9	1.7	1.5	2.4	2.1	1.8	1.6	2.4	2.1	1.8	1.6

<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			
	661	567	496	449	708	614	543	496	708	614	543	472
Almonds 115 Trees/A	661	567	496	449	708	614	543	496	708	614	543	472
Pistachio 106 Trees/A	747	648	573	523	747	648	573	523	747	648	573	523
Citrus 110 Trees/A	444	395	346	296	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	110	96	86	77	120	106	91	82	120	106	91	82
Winegrapes 622 Vines/A	114	96	87	74	122	105	92	83	122	105	92	83
Walnuts 76 Trees/A	857	750	643	572	929	822	715	643	929	786	715	643
Stonefruit 172 Trees/A	347	300	268	237	379	332	284	253	379	332	284	253

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>)

06/14/19 through 06/20/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/14- 6/20 Water Use	Accum'd Seasonal Water Use	6/21- 6/27 Estimated ETc		6/14- 6/20 Water Use	Accum'd Seasonal Water Use	6/21- 6/27 Estimated ETc		6/14- 6/20 Water Use	Accum'd Seasonal Water Use	6/21- 6/27 Estimated ETc
Almonds (3/10) *	2.16	18.06	2.08		2.00	18.46	2.15		1.96	17.25	2.15
Pistachio (4/19) * **	2.33	10.17	2.24		2.17	9.78	2.31		2.13	9.18	2.31
Citrus (2/1)	1.42	17.09	1.33		1.32	17.97	1.40		1.30	16.52	1.40
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.83	11.11	1.68		1.68	10.91	1.75		1.65	10.18	1.75
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.97	11.47	1.89		1.82	11.35	1.96		1.78	10.58	1.96
Walnuts (4/15)	1.89	10.03	1.75		1.74	9.76	1.82		1.70	9.09	1.82
Stone Fruit (3/20 )	1.72	10.86	1.75		1.59	10.82	1.82		1.57	10.18	1.82
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2019)	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 >>												
Almonds (3/10)	3.3	2.9	2.5	2.3	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1
Pistachio (4/19)	3.6	3.1	2.7	2.5	3.3	2.9	2.6	2.3	3.3	2.8	2.5	2.2
Citrus (2/1)	2.2	1.9	1.7	1.5	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.8	2.4	2.2	1.9	2.6	2.2	2.0	1.8	2.5	2.2	1.9	1.7
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1	2.7	2.4	2.1	1.9
Walnuts (4/15)	2.9	2.5	2.2	2.0	2.7	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Stone Fruit (3/20 )	2.6	2.3	2.0	1.8	2.4	2.1	1.9	1.7	2.4	2.1	1.8	1.7

<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			
	779	685	590	543	732	638	567	496	708	614	543	496
Almonds 115 Trees/A												
Pistachio 106 Trees/A	897	772	673	623	822	722	648	573	822	698	623	548
Citrus 110 Trees/A	543	469	420	370	494	444	395	346	494	420	370	346
Raisin Grapes 566 Vines/A	134	115	106	91	125	106	96	86	120	106	91	82
Winegrapes 622 Vines/A	131	114	100	92	131	114	100	92	118	105	92	83
Walnuts 76 Trees/A	1036	893	786	715	965	822	715	643	929	822	715	643
Stonefruit 172 Trees/A	410	363	316	284	379	332	300	268	379	332	284	268

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