



WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET <sub>C</sub> ) 10/04/19 through 10/10/19												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	10/4- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc		10/4- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc		10/4- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc	
Almonds (3/10) *	1.00	41.98	0.78		1.07	45.18	0.76		1.06	42.33	0.75	
Pistachio (4/19) * **	0.93	35.63	0.77		1.01	38.31	0.76		0.99	35.91	0.75	
Citrus (2/1)	0.70	31.55	0.57		0.76	34.06	0.56		0.75	31.73	0.56	
Raisin Grapes (3/16 ) (11 ft. row spacing)	0.84	30.32	0.69		0.91	32.47	0.67		0.89	30.48	0.66	
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	0.93	33.39	0.78		1.01	36.04	0.77		0.99	33.69	0.77	
Walnuts (4/15)	1.00	34.50	0.79		1.07	37.20	0.77		1.06	34.70	0.76	
Stone Fruit (3/20 )	1.09	34.91	0.90		1.21	37.66	0.88		1.18	35.06	0.87	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2018)	11.15				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 >>												
Almonds (3/10)	1.5	1.3	1.2	1.1	1.6	1.4	1.3	1.1	1.6	1.4	1.2	1.1
Pistachio (4/19)	1.4	1.2	1.1	1.0	1.6	1.3	1.2	1.1	1.5	1.3	1.2	1.0
Citrus (2/1)	1.1	0.9	0.8	0.7	1.2	1.0	0.9	0.8	1.2	1.0	0.9	0.8
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.3	1.1	1.0	0.9	1.4	1.2	1.1	1.0	1.4	1.2	1.0	0.9
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.4	1.2	1.1	1.0	1.6	1.3	1.2	1.1	1.5	1.3	1.2	1.0
Walnuts (4/15)	1.5	1.3	1.2	1.1	1.6	1.4	1.3	1.1	1.6	1.4	1.2	1.1
Stone Fruit (3/20 )	1.7	1.5	1.3	1.1	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.2
<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	354	307	283	260	378	331	307	260	378	331	283	260
Pistachio 106 Trees/A	349	299	274	249	399	324	299	274	374	324	299	249
Citrus 110 Trees/A	272	222	197	173	296	247	222	197	296	247	222	197
Raisin Grapes 566 Vines/A	62	53	48	43	67	58	53	48	67	58	48	43
Winegrapes 622 Vines/A	61	52	48	44	70	57	52	48	65	57	52	44
Walnuts 76 Trees/A	536	464	429	393	572	500	464	393	572	500	429	393
Stonefruit 172 Trees/A	268	237	205	174	300	253	221	205	284	253	221	189

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>)

10/04/19 through 10/10/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	10/4- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc		10/4- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc		10/4- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc
Almonds (3/10) *	1.16	47.99	0.89		1.30	49.37	0.97		1.22	46.43	0.92
Pistachio (4/19) * **	1.12	40.83	0.82		1.27	41.55	0.90		1.20	39.10	0.85
Citrus (2/1)	0.82	35.92	0.66		0.92	37.48	0.74		0.89	34.95	0.69
Raisin Grapes (3/16) (11 ft. row spacing)	0.99	34.79	0.80		1.12	35.32	0.88		1.05	33.19	0.83
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.12	38.41	0.87		1.27	39.30	0.95		1.20	36.85	0.90
Walnuts (4/15)	1.15	39.54	0.86		1.28	40.38	0.94		1.20	37.88	0.89
Stone Fruit (3/20)	1.33	40.02	1.01		1.49	41.14	1.13		1.41	38.63	1.05
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00		
<b>Accumulated precipitation (inches) (1/1/2019)</b>	4.82				7.59				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)	1.8	1.5	1.4	1.2	2.0	1.7	1.5	1.4	1.9	1.6	1.4	1.3
Pistachio (4/19)	1.7	1.5	1.3	1.2	2.0	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Citrus (2/1)	1.3	1.1	1.0	0.9	1.4	1.2	1.1	1.0	1.4	1.2	1.0	0.9
Raisin Grapes (3/16) (11 ft. row spacing)	1.5	1.3	1.2	1.0	1.7	1.5	1.3	1.2	1.6	1.4	1.2	1.1
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.7	1.5	1.3	1.2	2.0	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Walnuts (4/15)	1.8	1.5	1.4	1.2	2.0	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Stone Fruit (3/20)	2.0	1.8	1.6	1.4	2.3	2.0	1.8	1.6	2.2	1.9	1.7	1.5

<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			
	425	354	331	283	472	401	354	331	449	378	331	307
Almonds 115 Trees/A	425	354	331	283	472	401	354	331	449	378	331	307
Pistachio 106 Trees/A	424	374	324	299	498	424	374	324	448	399	349	324
Citrus 110 Trees/A	321	272	247	222	346	296	272	247	346	296	247	222
Raisin Grapes 566 Vines/A	72	62	58	48	82	72	62	58	77	67	58	53
Winegrapes 622 Vines/A	74	65	57	52	87	74	65	57	79	70	61	57
Walnuts 76 Trees/A	643	536	500	429	715	607	536	464	643	572	500	464
Stonefruit 172 Trees/A	316	284	253	221	363	316	284	253	347	300	268	237

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