



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

11/01/19 through 11/07/19

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	11/1- 11/7 Water Use	Accum'd Seasonal Water Use	11/8- 11/14 Estimated ETc		11/1- 11/7 Water Use	Accum'd Seasonal Water Use	11/8- 11/14 Estimated ETc		11/1- 11/7 Water Use	Accum'd Seasonal Water Use	11/8- 11/14 Estimated ETc	
Almonds (3/10) *	0.58	44.78	0.37		0.58	48.07	0.36		0.76	45.39	0.37	
Pistachio (4/19) * **	0.63	38.39	0.33		0.63	41.13	0.31		0.74	38.86	0.32	
Citrus (2/1)	0.49	33.73	0.31		0.49	36.29	0.29		0.60	34.09	0.30	
Raisin Grapes (3/16) (11 ft. row spacing)	0.56	32.91	0.38		0.56	35.12	0.36		0.74	33.28	0.37	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.70	36.41	0.45		0.70	39.11	0.43		0.81	36.89	0.44	
Walnuts (4/15)	0.35	36.93	0.23		0.35	39.72	0.21		0.46	37.32	0.22	
Stone Fruit (3/20)	0.56	37.74	0.38		0.56	40.58	0.36		0.71	38.13	0.37	
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 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 (3/10)	0.9	0.8	0.7	0.6	0.9	0.8	0.7	0.6	1.2	1.0	0.9	0.8
Pistachio (4/19)	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7	1.1	1.0	0.9	0.8
Citrus (2/1)	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.5	0.9	0.8	0.7	0.6
Raisin Grapes (3/16) (11 ft. row spacing)	0.9	0.7	0.7	0.6	0.9	0.7	0.7	0.6	1.1	1.0	0.9	0.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.1	0.9	0.8	0.7	1.1	0.9	0.8	0.7	1.2	1.1	1.0	0.9
Walnuts (4/15)	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.7	0.6	0.5	0.5
Stone Fruit (3/20)	0.9	0.7	0.7	0.6	0.9	0.7	0.7	0.6	1.1	0.9	0.8	0.7

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	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	213	189	165	142	213	189	165	142	283	236	213	189
Pistachio 106 Trees/A	249	199	174	174	249	199	174	174	274	249	224	199
Citrus 110 Trees/A	197	173	148	123	197	173	148	123	222	197	173	148
Raisin Grapes 566 Vines/A	43	34	34	29	43	34	34	29	53	48	43	38
Winegrapes 622 Vines/A	48	39	35	31	48	39	35	31	52	48	44	39
Walnuts 76 Trees/A	179	179	143	143	179	179	143	143	250	214	179	179
Stonefruit 172 Trees/A	142	111	111	95	142	111	111	95	174	142	126	111

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) 11/01/19 through 11/07/19														
Crops (Leafout Date)	#124 Panoche					#2 Five Points					#15 Stratford			
	11/1- 11/7 Water Use	Accum'd Seasonal Water Use	11/8- 11/14 Estimated ET _c			11/1- 11/7 Water Use	Accum'd Seasonal Water Use	11/8- 11/14 Estimated ET _c			11/1- 11/7 Water Use	Accum'd Seasonal Water Use	11/8- 11/14 Estimated ET _c	
Almonds (3/10) *	0.58	51.03	0.37		0.65	52.81	0.41		0.66	49.79	0.41			
Pistachio (4/19) * **	0.62	43.79	0.35		0.69	44.92	0.38		0.69	42.36	0.38			
Citrus (2/1)	0.49	38.29	0.33		0.56	40.22	0.39		0.56	37.60	0.39			
Raisin Grapes (3/16) (11 ft. row spacing)	0.56	37.64	0.40		0.63	38.56	0.46		0.64	36.34	0.46			
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.70	41.65	0.47		0.77	42.97	0.53		0.77	40.39	0.53			
Walnuts (4/15)	0.35	42.20	0.25		0.42	43.43	0.26		0.42	40.82	0.26			
Stone Fruit (3/20)	0.56	43.13	0.40		0.63	44.75	0.42		0.64	42.13	0.42			
Past 7 days precipitation (inches)	0.00					0.00					0.00			
Accumulated precipitation (inches) (1/1/2019)	4.82					7.59					7.08			
<p>Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop</p> <p>* 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.</p> <p>** 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.</p>														
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	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)	0.9	0.8	0.7	0.6		1.0	0.9	0.8	0.7		1.0	0.9	0.8	0.7
Pistachio (4/19)	1.0	0.8	0.7	0.7		1.1	0.9	0.8	0.7		1.1	0.9	0.8	0.7
Citrus (2/1)	0.8	0.7	0.6	0.5		0.9	0.7	0.7	0.6		0.9	0.7	0.7	0.6
Raisin Grapes (3/16) (11 ft. row spacing)	0.9	0.7	0.7	0.6		1.0	0.8	0.7	0.7		1.0	0.9	0.8	0.7
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Walnuts (4/15)	0.5	0.5	0.4	0.4		0.6	0.6	0.5	0.4		0.6	0.6	0.5	0.4
Stone Fruit (3/20)	0.9	0.7	0.7	0.6		1.0	0.8	0.7	0.7		1.0	0.9	0.8	0.7
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Raisin Grapes 566 Vines/A	43	34	34	29		48	38	34	34		48	43	38	34
Winegrapes 622 Vines/A	48	39	35	31		52	44	39	35		52	44	39	35
Walnuts 76 Trees/A	179	179	143	143		214	214	179	143		214	214	179	143
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