

**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>C</sub>)  
10/21/22 through 10/27/22

	#148 Merced				#39 Parlier				#258 Lemon Cove		
	10/21 - 10/27 Water Use	Accum'd Seasonal Water Use	10/28 - 11/3 Estimated ETc		10/21 - 10/27 Water Use	Accum'd Seasonal Water Use	10/28 - 11/3 Estimated ETc		10/21 - 10/27 Water Use	Accum'd Seasonal Water Use	10/28 - 11/3 Estimated ETc
Almonds (3/1) *	0.68	48.34	0.48		0.68	49.99	0.47		0.70	46.72	0.51
Pistachio (4/8) * **	0.56	42.67	0.42		0.57	44.39	0.41		0.58	41.18	0.44
Citrus (2/1)	0.54	36.41	0.42		0.54	37.71	0.41		0.56	35.43	0.44
Raisin Grapes (3/15) (11 ft. row spacing)	0.54	29.08	0.44		0.54	30.25	0.42		0.56	28.10	0.48
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.65	32.16	0.50		0.65	33.42	0.48		0.66	31.03	0.55
Walnuts (4/8)	0.22	41.83	0.17		0.21	43.43	0.15		0.21	40.26	0.21
Stone Fruit (3/10)	0.62	41.90	0.45		0.64	43.54	0.43		0.65	40.35	0.51
Past 7 days precipitation (inches)	▲ 0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	2.90				2.05				2.82		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

\*\* 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 (3/1)	1.0	0.9	0.8	0.7		1.0	0.9	0.8	0.7		1.1	0.9	0.8	0.7
Pistachio (4/8)	0.9	0.7	0.7	0.6		0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6
Citrus (2/1)	0.8	0.7	0.6	0.6		0.8	0.7	0.6	0.6		0.9	0.7	0.7	0.6
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			0.6		Assume all grape			0.6		Assume all grape			0.6
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.7		irrigation type is drip			0.7		irrigation type is drip			0.7
Walnuts (4/8)	0.3	0.3	0.3	0.2		0.3	0.3	0.2	0.2		0.3	0.3	0.2	0.2
Stone Fruit (3/10)	1.0	0.8	0.7	0.7		1.0	0.9	0.8	0.7		1.0	0.9	0.8	0.7

<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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	236	213	189	165		236	213	189	165		260	213	189	165
Almonds 115 Trees/A	236	213	189	165		236	213	189	165		260	213	189	165
Pistachio 106 Trees/A	224	174	174	149		224	199	174	149		224	199	174	149
Citrus 110 Trees/A	197	173	148	148		197	173	148	148		222	173	173	148
Raisin Grapes 566 Vines/A	Assume all grape			29		Assume all grape			29		Assume all grape			29
Winegrapes 622 Vines/A	irrigation type is drip			31		irrigation type is drip			31		irrigation type is drip			31
Walnuts 76 Trees/A	107	107	107	71		107	107	71	71		107	107	71	71
Stonefruit 172 Trees/A	158	126	111	111		158	142	126	111		158	142	126	111

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

<b>WEEKLY SOIL MOISTURE LOSS IN INCHES</b> (Estimated Crop Evapotranspiration or ET <sub>c</sub> ) 10/21/22 through 10/27/22												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	10/21- 10/27 Water Use	Accum'd Seasonal Water Use	10/28- 11/3 Estimated ETc		10/21- 10/27 Water Use	Accum'd Seasonal Water Use	10/28- 11/3 Estimated ETc		10/21- 10/27 Water Use	Accum'd Seasonal Water Use	10/28- 11/3 Estimated ETc	
Almonds (3/1) *	0.82	53.75	0.50		0.83	55.79	0.57		0.82	57.39	0.56	
Pistachio (4/8) * **	0.71	47.27	0.44		0.72	48.88	0.50		0.70	50.45	0.49	
Citrus (2/1)	0.67	40.55	0.44		0.66	42.14	0.50		0.66	43.03	0.49	
Raisin Grapes (3/15 ) (11 ft. row spacing)	0.69	32.23	0.47		0.69	33.40	0.49		0.68	34.43	0.48	
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.78	35.50	0.54		0.78	36.77	0.60		0.77	37.96	0.60	
Walnuts (4/8)	0.26	46.15	0.20		0.27	47.87	0.21		0.27	49.38	0.21	
Stone Fruit (3/10)	0.78	46.39	0.50		0.78	48.04	0.57		0.76	49.58	0.56	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2022)	1.25				1.76				1.33			

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.

<b>PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup></b>												
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 (3/1)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Pistachio (4/8)	1.1	0.9	0.8	0.7	1.1	1.0	0.8	0.8	1.1	0.9	0.8	0.7
Citrus (2/1)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			0.7	Assume all grape			0.7	Assume all grape			0.7
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.8	irrigation type is drip			0.8	irrigation type is drip			0.8
Walnuts (4/8)	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3
Stone Fruit (3/10)	1.2	1.0	0.9	0.8	1.2	1.0	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%.

<b>PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE</b>												
Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	Almonds 115 Trees/A	307	260	236	213	307	260	236	213	307	260	236
Pistachio 106 Trees/A	274	224	199	174	274	249	199	199	274	224	199	174
Citrus 110 Trees/A	247	222	197	173	247	222	197	173	247	222	197	173
Raisin Grapes 566 Vines/A	Assume all grape			34	Assume all grape			34	Assume all grape			34
Winegrapes 622 Vines/A	irrigation type is drip			35	irrigation type is drip			35	irrigation type is drip			35
Walnuts 76 Trees/A	143	107	107	107	143	143	107	107	143	143	107	107
Stonefruit 172 Trees/A	189	158	142	126	189	158	142	126	189	158	142	126

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