

**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
09/06/24 through 09/12/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	09/06 - 09/12 Water Use	Accum'd Seasonal Water Use	09/13 - 09/19 Estimated ETc	09/06 - 09/12 Water Use	Accum'd Seasonal Water Use	09/13 - 09/19 Estimated ETc	09/06 - 09/12 Water Use	Accum'd Seasonal Water Use	09/13 - 09/19 Estimated ETc
Almonds (3/1) *	1.46	40.79	1.32	1.53	42.56	1.27	1.60	41.26	1.15
Pistachio (4/20) * **	1.51	33.42	1.26	1.58	34.90	1.21	1.65	33.87	1.09
Citrus (2/1)	1.09	30.02	0.87	1.12	31.47	0.82	1.19	30.49	0.73
Raisin Grapes (3/11) (11 ft. row spacing)	1.00	23.68	0.90	1.04	24.72	0.86	1.08	24.00	0.78
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	1.12	26.07	1.02	1.18	27.29	0.98	1.24	26.47	0.88
Walnuts (4/20)	1.53	31.43	1.31	1.60	32.90	1.25	1.66	31.92	1.15
Stone Fruit (3/11)	1.53	33.37	1.41	1.60	35.01	1.36	1.67	33.93	1.24
<b>Past 7 days precipitation (inches)</b>	0.00			0.00			0.00		
<b>Accumulated precipitation (inches) (1/1/2024)</b>	14.98			8.98			9.71		

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 (3/1)	2.2	1.9	1.7	1.5	2.4	2.0	1.8	1.6	2.5	2.1	1.9	1.7
Pistachio (4/20)	2.3	2.0	1.8	1.6	2.4	2.1	1.9	1.7	2.5	2.2	1.9	1.7
Citrus (2/1)	1.7	1.5	1.3	1.1	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.3
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			1.1	Assume all grape			1.1	Assume all grape			1.1
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.2	irrigation type is drip			1.2	irrigation type is drip			1.3
Walnuts (4/20)	2.4	2.0	1.8	1.6	2.5	2.1	1.9	1.7	2.6	2.2	2.0	1.7
Stone Fruit (3/11)	2.4	2.0	1.8	1.6	2.5	2.1	1.9	1.7	2.6	2.2	2.0	1.8

<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%.

**PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE**

Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
	Almonds 115 Trees/A	519	449	401	354	567	472	425	378	590	496	449
Pistachio 106 Trees/A	573	498	448	399	598	523	473	424	623	548	473	424
Citrus 110 Trees/A	420	370	321	272	420	370	321	296	444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			53	Assume all grape			53	Assume all grape			53
Winegrapes 622 Vines/A	irrigation type is drip			52	irrigation type is drip			52	irrigation type is drip			57
Walnuts 76 Trees/A	857	715	643	572	893	750	679	607	929	786	715	607
Stonefruit 172 Trees/A	379	316	284	253	395	332	300	268	410	347	316	284

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>)  
09/06/24 through 09/12/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	09/06- 09/12 Water Use	Accum'd Seasonal Water Use	09/13- 09/19 Estimated ETc		09/06- 09/12 Water Use	Accum'd Seasonal Water Use	09/13- 09/19 Estimated ETc		09/06- 09/12 Water Use	Accum'd Seasonal Water Use	09/13- 09/19 Estimated ETc
Almonds (3/1) *	1.72	44.17	1.38		1.65	44.83	1.50		1.89	42.74	1.49
Pistachio (4/20) * **	1.77	36.80	1.30		1.70	37.22	1.42		1.94	35.74	1.41
Citrus (2/1)	1.23	32.85	0.84		1.17	33.53	0.94		1.32	31.90	0.93
Raisin Grapes (3/11) (11 ft. row spacing)	1.16	25.95	0.94		1.11	26.31	1.04		1.27	25.12	1.03
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.33	28.60	1.05		1.26	28.89	1.16		1.44	27.70	1.15
Walnuts (4/20)	1.77	34.65	1.39		1.67	34.98	1.51		1.90	33.83	1.50
Stone Fruit (3/11)	1.79	37.00	1.45		1.72	37.33	1.57		1.96	35.93	1.56
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00		
<b>Accumulated precipitation (inches) (1/1/2024)</b>	6.60				6.86				5.43		

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 (3/1)	2.6	2.3	2.0	1.8		2.5	2.2	1.9	1.7		2.9	2.5	2.2	2.0
Pistachio (4/20)	2.7	2.4	2.1	1.9		2.6	2.3	2.0	1.8		3.0	2.6	2.3	2.0
Citrus (2/1)	1.9	1.6	1.4	1.3		1.8	1.6	1.4	1.2		2.0	1.8	1.6	1.4
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.2		Assume all grape			1.2		Assume all grape			1.3
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.4		irrigation type is drip			1.3		irrigation type is drip			1.5
Walnuts (4/20)	2.7	2.4	2.1	1.9		2.6	2.2	2.0	1.8		2.9	2.5	2.2	2.0
Stone Fruit (3/11)	2.8	2.4	2.1	1.9		2.6	2.3	2.0	1.8		3.0	2.6	2.3	2.1

<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			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds 115 Trees/A	614	543	472	425		590	519	449	401		685	590	519	472
Pistachio 106 Trees/A	673	598	523	473		648	573	498	448		747	648	573	498
Citrus 110 Trees/A	469	395	346	321		444	395	346	296		494	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			58		Assume all grape			58		Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			61		irrigation type is drip			57		irrigation type is drip			65
Walnuts 76 Trees/A	965	857	750	679		929	786	715	643		1036	893	786	715
Stonefruit 172 Trees/A	442	379	332	300		410	363	316	284		474	410	363	332

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