

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

(Estimated Crop Evapotranspiration or ET<sub>c</sub>)

07/28/23 through 08/03/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/28- 8/3 Water Use	Accum'd Seasonal Water Use	8/4 - 8/10 Estimated ETc	7/28- 8/3 Water Use	Accum'd Seasonal Water Use	8/4 - 8/10 Estimated ETc	7/28- 8/3 Water Use	Accum'd Seasonal Water Use	8/4 - 8/10 Estimated ETc
Almonds (3/13) *	1.91	28.52	2.02	2.01	30.13	1.92	1.96	29.49	1.92
Pistachio (4/20) * **	1.96	22.69	2.09	2.08	23.89	1.98	2.02	23.68	1.96
Citrus (2/1)	1.16	22.41	1.23	1.22	23.89	1.16	1.19	23.20	1.18
Raisin Grapes (3/22) (11 ft. row spacing)	1.27	14.74	1.34	1.35	15.51	1.28	1.31	15.41	1.28
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.45	16.01	1.54	1.53	16.88	1.45	1.49	16.75	1.45
Walnuts (4/20)	2.03	20.72	2.16	2.15	21.87	2.05	2.09	21.73	2.03
Stone Fruit (3/19)	1.96	23.85	2.09	2.08	25.06	1.98	2.02	24.79	1.96
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	16.33			12.53			15.76		

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 (3/13)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1
Pistachio (4/20)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1
Citrus (2/1)	1.8	1.5	1.4	1.2	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.3
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.3	Assume all grape			1.4	Assume all grape			1.4
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip			1.6	irrigation type is drip			1.6
Walnuts (4/20)	3.1	2.7	2.4	2.1	3.3	2.9	2.5	2.3	3.2	2.8	2.5	2.2
Stone Fruit (3/19)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	685	590	519	472	732	638	567	496	708	614	543	496
Pistachio 106 Trees/A	747	648	573	523	797	698	598	548	772	673	598	523
Citrus 110 Trees/A	444	370	346	296	469	395	346	321	444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			62	Assume all grape			67	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			70	irrigation type is drip			70
Walnuts 76 Trees/A	1108	965	857	750	1179	1036	893	822	1143	1000	893	786
Stonefruit 172 Trees/A	474	410	363	332	505	442	379	347	489	426	379	332

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>)  
07/28/23 through 08/03/23

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	7/28 - 8/3 Water Use	Accum'd Seasonal Water Use	8/4 - 8/10 Estimated ETc		7/28 - 8/3 Water Use	Accum'd Seasonal Water Use	8/4 - 8/10 Estimated ETc		7/28 - 8/3 Water Use	Accum'd Seasonal Water Use	8/4 - 8/10 Estimated ETc
Almonds (3/13) *	2.08	30.81	1.99		2.01	30.14	2.16		2.20	33.06	2.15
Pistachio (4/20) * **	2.15	24.79	2.06		2.08	24.02	2.23		2.27	26.21	2.22
Citrus (2/1)	1.27	24.03	1.20		1.22	23.77	1.30		1.34	25.92	1.30
Raisin Grapes (3/22 ) (11 ft. row spacing)	1.39	15.73	1.33		1.34	15.33	1.46		1.48	16.63	1.45
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.59	17.07	1.51		1.53	16.54	1.66		1.69	18.04	1.65
Walnuts (4/20)	2.22	22.66	2.13		2.15	21.91	2.30		2.34	24.03	2.29
Stone Fruit (3/19)	2.15	26.13	2.06		2.08	25.43	2.23		2.27	27.85	2.14
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2023)	6.18				7.65				7.90		

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.

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**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 (3/13)	3.2	2.8	2.4	2.2		3.1	2.7	2.4	2.1		3.4	2.9	2.6	2.3
Pistachio (4/20)	3.3	2.9	2.5	2.3		3.2	2.8	2.4	2.2		3.5	3.0	2.7	2.4
Citrus (2/1)	2.0	1.7	1.5	1.3		1.9	1.6	1.4	1.3		2.1	1.8	1.6	1.4
Raisin Grapes (3/22 ) (11 ft. row spacing)	Assume all grape			1.5		Assume all grape			1.4		Assume all grape			1.6
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.7		irrigation type is drip			1.6		irrigation type is drip			1.8
Walnuts (4/20)	3.4	3.0	2.6	2.3		3.3	2.9	2.5	2.3		3.6	3.1	2.8	2.5
Stone Fruit (3/19)	3.3	2.9	2.5	2.3		3.2	2.8	2.4	2.2		3.5	3.0	2.7	2.4

<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			
Almonds 115 Trees/A	756	661	567	519		732	638	567	496		803	685	614	543
Pistachio 106 Trees/A	822	722	623	573		797	698	598	548		872	747	673	598
Citrus 110 Trees/A	494	420	370	321		469	395	346	321		518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72		Assume all grape			67		Assume all grape			77
Winegrapes 622 Vines/A	irrigation type is drip			74		irrigation type is drip			70		irrigation type is drip			79
Walnuts 76 Trees/A	1215	1072	929	822		1179	1036	893	822		1286	1108	1000	893
Stonefruit 172 Trees/A	521	458	395	363		505	442	379	347		553	474	426	379

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