



**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

06/03/22 through 06/09/22

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	6/3 - 6/9 Water Use	Accum'd Seasonal Water Use	6/10 - 6/16 Estimated ETc		6/3 - 6/9 Water Use	Accum'd Seasonal Water Use	6/10 - 6/16 Estimated ETc		6/3 - 6/9 Water Use	Accum'd Seasonal Water Use	6/10 - 6/16 Estimated ETc
Almonds (3/1) *	1.71	15.91	1.86		1.88	16.41	1.86		1.74	15.77	1.91
Pistachio (4/8) * **	1.94	10.09	2.06		2.15	10.55	2.06		1.97	10.08	2.11
Citrus (2/1)	1.16	15.70	1.22		1.27	16.10	1.22		1.19	15.60	1.25
Raisin Grapes (3/15) (11 ft. row spacing)	1.22	7.00	1.30		1.35	7.31	1.30		1.23	6.96	1.32
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.26	7.14	1.34		1.38	7.41	1.34		1.28	7.14	1.38
Walnuts (4/8)	1.63	11.24	1.73		1.80	11.78	1.73		1.63	11.31	1.78
Stone Fruit (3/10)	1.41	10.17	1.57		1.56	10.50	1.57		1.43	10.11	1.62
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.88				1.79				1.82		

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 (3/1)	2.6	2.3	2.0	1.8		2.9	2.5	2.2	2.0		2.7	2.3	2.0	1.8
Pistachio (4/8)	3.0	2.6	2.3	2.0		3.3	2.9	2.5	2.3		3.0	2.6	2.3	2.1
Citrus (2/1)	1.8	1.5	1.4	1.2		2.0	1.7	1.5	1.3		1.8	1.6	1.4	1.3
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.3		Assume all grape			1.4		Assume all grape			1.3
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.3		irrigation type is drip			1.4		irrigation type is drip			1.3
Walnuts (4/8)	2.5	2.2	1.9	1.7		2.8	2.4	2.1	1.9		2.5	2.2	1.9	1.7
Stone Fruit (3/10)	2.2	1.9	1.7	1.5		2.4	2.1	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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	614	543	472	425		685	590	519	472		638	543	472	425
Almonds 115 Trees/A	614	543	472	425		685	590	519	472		638	543	472	425
Pistachio 106 Trees/A	747	648	573	498		822	722	623	573		747	648	573	523
Citrus 110 Trees/A	444	370	346	296		494	420	370	321		444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			62		Assume all grape			67		Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			57		irrigation type is drip			61		irrigation type is drip			57
Walnuts 76 Trees/A	893	786	679	607		1000	857	750	679		893	786	679	607
Stonefruit 172 Trees/A	347	300	268	237		379	332	284	253		347	300	268	237

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>)

06/03/22 through 06/09/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	6/3- 6/9 Water Use	Accum'd Seasonal Water Use	6/10- 6/16 Estimated ETc	6/3- 6/9 Water Use	Accum'd Seasonal Water Use	6/10- 6/16 Estimated ETc	6/3- 6/9 Water Use	Accum'd Seasonal Water Use	6/10- 6/16 Estimated ETc
Almonds (3/1) *	1.93	18.21	2.11	2.09	19.11	2.11	2.15	19.38	2.13
Pistachio (4/8) * **	2.15	11.38	2.29	2.34	11.92	2.29	2.40	12.11	2.31
Citrus (2/1)	1.28	17.57	1.38	1.39	18.52	1.38	1.44	18.46	1.40
Raisin Grapes (3/15 ) (11 ft. row spacing)	1.35	7.83	1.47	1.46	8.23	1.47	1.51	8.35	1.49
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.39	7.98	1.53	1.50	8.35	1.53	1.54	8.50	1.55
Walnuts (4/8)	1.81	12.73	1.96	1.99	13.38	1.96	2.05	13.62	1.98
Stone Fruit (3/10)	1.57	11.41	1.80	1.72	11.98	1.80	1.76	12.12	1.82
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.11			1.11			1.30		

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)	3.0	2.6	2.3	2.0	3.2	2.8	2.5	2.2	3.3	2.9	2.5	2.3
Pistachio (4/8)	3.3	2.9	2.5	2.3	3.6	3.1	2.8	2.5	3.7	3.2	2.8	2.5
Citrus (2/1)	2.0	1.7	1.5	1.3	2.1	1.9	1.6	1.5	2.2	1.9	1.7	1.5
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.5	Assume all grape			1.6
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip			1.5	irrigation type is drip			1.6
Walnuts (4/8)	2.8	2.4	2.1	1.9	3.1	2.7	2.3	2.1	3.2	2.7	2.4	2.2
Stone Fruit (3/10)	2.4	2.1	1.8	1.7	2.6	2.3	2.0	1.8	2.7	2.3	2.1	1.9

<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	708	614	543	472	756	661	590	519	779	685	590
Pistachio 106 Trees/A	822	722	623	573	897	772	698	623	922	797	698	623
Citrus 110 Trees/A	494	420	370	321	518	469	395	370	543	469	420	370
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			72	Assume all grape			77
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			65	irrigation type is drip			70
Walnuts 76 Trees/A	1000	857	750	679	1108	965	822	750	1143	965	857	786
Stonefruit 172 Trees/A	379	332	284	268	410	363	316	284	426	363	332	300

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