

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

08/19/22 through 08/25/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/19 - 8/25 Water Use	Accum'd Seasonal Water Use	8/26 - 9/1 Estimated ETc	8/19 - 8/25 Water Use	Accum'd Seasonal Water Use	8/26 - 9/1 Estimated ETc	8/19 - 8/25 Water Use	Accum'd Seasonal Water Use	8/26 - 9/1 Estimated ETc
Almonds (3/1) *	1.81	38.03	1.79	1.95	38.96	1.77	1.79	36.31	1.70
Pistachio (4/8) * **	1.82	33.03	1.79	2.02	34.02	1.77	1.82	31.44	1.70
Citrus (2/1)	1.10	29.27	1.12	1.18	30.03	1.12	1.06	28.17	1.06
Raisin Grapes (3/15) (11 ft. row spacing)	1.18	21.84	1.16	1.30	22.50	1.15	1.16	20.73	1.09
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.36	23.89	1.34	1.48	24.56	1.33	1.34	22.67	1.27
Walnuts (4/8)	1.81	33.90	1.76	1.95	34.91	1.74	1.79	32.37	1.67
Stone Fruit (3/10)	1.82	31.30	1.79	2.02	32.15	1.77	1.82	29.65	1.70
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.98			1.94			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 >>												
Almonds (3/1)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.1	2.8	2.4	2.1	1.9
Pistachio (4/8)	2.8	2.4	2.1	1.9	3.1	2.7	2.4	2.1	2.8	2.4	2.1	1.9
Citrus (2/1)	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.2	1.6	1.4	1.2	1.1
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.2	Assume all grape			1.4	Assume all grape			1.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.4	irrigation type is drip			1.6	irrigation type is drip			1.4
Walnuts (4/8)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.1	2.8	2.4	2.1	1.9
Stone Fruit (3/10)	2.8	2.4	2.1	1.9	3.1	2.7	2.4	2.1	2.8	2.4	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	Almonds 115 Trees/A	661	567	496	449	708	614	543	496	661	567	496
Pistachio 106 Trees/A	698	598	523	473	772	673	598	523	698	598	523	473
Citrus 110 Trees/A	420	370	321	296	444	395	346	296	395	346	296	272
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			67	Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			70	irrigation type is drip			61
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	750	1000	857	750	679
Stonefruit 172 Trees/A	442	379	332	300	489	426	379	332	442	379	332	300

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>)

08/19/22 through 08/25/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/19- 8/25 Water Use	Accum'd Seasonal Water Use	8/26- 9/1 Estimated ETc	8/19- 8/25 Water Use	Accum'd Seasonal Water Use	8/26- 9/1 Estimated ETc	8/19- 8/25 Water Use	Accum'd Seasonal Water Use	8/26- 9/1 Estimated ETc
Almonds (3/1) *	1.97	42.18	1.85	1.94	43.91	1.95	2.13	44.87	1.99
Pistachio (4/8) * **	2.04	36.22	1.88	1.99	37.59	2.02	2.20	38.47	2.06
Citrus (2/1)	1.21	32.32	1.19	1.19	33.72	1.27	1.30	34.11	1.28
Raisin Grapes (3/15 ) (11 ft. row spacing)	1.32	23.91	1.22	1.29	24.88	1.30	1.43	25.43	1.33
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.50	26.06	3.08	1.47	27.09	1.48	1.63	27.76	1.51
Walnuts (4/8)	1.97	37.19	1.82	1.94	38.70	1.92	2.13	39.61	1.96
Stone Fruit (3/10)	2.04	34.34	1.88	1.99	35.69	2.02	2.20	36.52	2.06
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.24			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	2.1	3.0	2.6	2.3	2.0	3.3	2.8	2.5	2.2
Pistachio (4/8)	3.1	2.7	2.4	2.1	3.1	2.7	2.3	2.1	3.4	2.9	2.6	2.3
Citrus (2/1)	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.3	2.0	1.7	1.5	1.4
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.4	Assume all grape			1.5
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.6	irrigation type is drip			1.5	irrigation type is drip			1.7
Walnuts (4/8)	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.0	3.3	2.8	2.5	2.2
Stone Fruit (3/10)	3.1	2.7	2.4	2.1	3.1	2.7	2.3	2.1	3.4	2.9	2.6	2.3

<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			
	708	614	543	496	708	614	543	472	779	661	590	519
Almonds 115 Trees/A	708	614	543	496	708	614	543	472	779	661	590	519
Pistachio 106 Trees/A	772	673	598	523	772	673	573	523	847	722	648	573
Citrus 110 Trees/A	469	395	346	321	444	395	346	321	494	420	370	346
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			67	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			70	irrigation type is drip			65	irrigation type is drip			74
Walnuts 76 Trees/A	1072	929	822	750	1072	929	822	715	1179	1000	893	786
Stonefruit 172 Trees/A	489	426	379	332	489	426	363	332	537	458	410	363

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