

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

05/19/23 through 05/25/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/19 - 5/25 Water Use	Accum'd Seasonal Water Use	5/26 - 6/1 Estimated ET _C	5/19 - 5/25 Water Use	Accum'd Seasonal Water Use	5/26 - 6/1 Estimated ET _C	5/19 - 5/25 Water Use	Accum'd Seasonal Water Use	5/26 - 6/1 Estimated ET _C
Almonds (3/13) *	1.67	10.76	1.82	1.75	10.75	1.89	1.85	12.10	1.90
Pistachio (4/20) * **	1.29	4.01	1.71	1.35	3.98	1.78	1.42	4.58	1.79
Citrus (2/1)	1.22	11.42	1.26	1.27	11.58	1.31	1.34	12.82	1.32
Raisin Grapes (3/22) (11 ft. row spacing)	0.87	2.41	1.05	0.91	2.46	1.07	0.95	2.75	1.08
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	0.80	2.78	0.95	0.84	2.83	0.99	0.88	3.16	0.99
Walnuts (4/20)	1.24	4.25	1.48	1.31	4.19	1.54	1.38	4.86	1.55
Stone Fruit (3/19)	1.38	7.06	1.51	1.45	7.09	1.58	1.53	7.99	1.59
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	6.12			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.

** 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 ¹

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 (3/13)	2.6	2.2	2.0	1.8	2.7	2.3	2.1	1.8	2.8	2.5	2.2	1.9
Pistachio (4/20)	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.4	2.2	1.9	1.7	1.5
Citrus (2/1)	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.4
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			0.9	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.8	irrigation type is drip			0.8	irrigation type is drip			0.9
Walnuts (4/20)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.5
Stone Fruit (3/19)	2.1	1.8	1.6	1.5	2.2	1.9	1.7	1.5	2.4	2.0	1.8	1.6

¹ 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	519	472	425	638	543	496	425	661	590	519	449
Pistachio 106 Trees/A	498	424	374	349	523	448	399	349	548	473	424	374
Citrus 110 Trees/A	469	395	346	321	494	420	370	321	518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			48	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			35	irrigation type is drip			35	irrigation type is drip			39
Walnuts 76 Trees/A	679	607	536	464	715	607	536	500	750	643	572	536
Stonefruit 172 Trees/A	332	284	253	237	347	300	268	237	379	316	284	253

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_C)

05/19/23 through 05/25/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/19 - 5/25 Water Use	Accum'd Seasonal Water Use	5/26 - 6/1 Estimated ETc	5/19 - 5/25 Water Use	Accum'd Seasonal Water Use	5/26 - 6/1 Estimated ETc	5/19 - 5/25 Water Use	Accum'd Seasonal Water Use	5/26 - 6/1 Estimated ETc
Almonds (3/13) *	1.58	10.34	1.66	1.68	11.15	1.67	1.68	10.52	1.65
Pistachio (4/20) * **	1.21	3.88	1.59	1.31	4.19	1.60	1.30	4.01	1.58
Citrus (2/1)	1.14	10.99	1.16	1.25	11.89	1.17	1.25	11.22	1.15
Raisin Grapes (3/22) (11 ft. row spacing)	0.89	2.58	1.01	0.95	2.78	1.01	0.95	2.70	1.01
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	0.81	2.88	0.92	0.88	3.15	0.93	0.89	3.00	0.91
Walnuts (4/20)	1.16	4.13	1.36	1.26	4.49	1.37	1.28	4.36	1.35
Stone Fruit (3/19)	1.30	6.75	1.38	1.40	7.25	1.39	1.39	6.91	1.37
Past 7 days precipitation (inches)	▲ 0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	16.25			12.53			15.57		

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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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)	2.4	2.1	1.9	1.7	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8
Pistachio (4/20)	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.4
Citrus (2/1)	1.8	1.5	1.3	1.2	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Raisin Grapes (3/22) (11 ft. row spacing)***	Assume all grape			0.9	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.9	irrigation type is drip			0.9	irrigation type is drip			0.9
Walnuts (4/20)	1.8	1.5	1.4	1.2	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Stone Fruit (3/19)	2.0	1.7	1.5	1.4	2.2	1.9	1.6	1.5	2.1	1.9	1.6	1.5

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Pistachio 106 Trees/A	473	399	349	324	498	424	374	349	498	424	374	349
Citrus 110 Trees/A	444	370	321	296	469	420	370	321	469	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			48	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			39	irrigation type is drip			39	irrigation type is drip			39
Walnuts 76 Trees/A	643	536	500	429	679	607	536	464	715	607	536	464
Stonefruit 172 Trees/A	316	268	237	221	347	300	253	237	332	300	253	237

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