

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

04/29/22 through 05/05/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	4/29 - 5/5 Water Use	Accum'd Seasonal Water Use	5/6 - 5/12 Estimated ETc	4/29 - 5/5 Water Use	Accum'd Seasonal Water Use	5/6 - 5/12 Estimated ETc	4/29 - 5/5 Water Use	Accum'd Seasonal Water Use	5/6 - 5/12 Estimated ETc
Almonds (3/1) *	1.37	7.59	1.34	1.39	7.77	1.34	1.41	7.55	1.43
Pistachio (4/8) * **	0.88	2.10	0.95	0.90	2.22	0.95	0.91	2.20	1.01
Citrus (2/1)	1.15	9.57	1.05	1.17	9.76	1.05	1.19	9.53	1.14
Raisin Grapes (3/15) (11 ft. row spacing)	0.60	1.68	0.65	0.61	1.77	0.65	0.60	1.73	0.68
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.57	1.98	0.60	0.59	2.07	0.60	0.59	2.06	0.65
Walnuts (4/8)	1.24	3.60	1.19	1.26	3.83	1.19	1.28	3.80	1.28
Stone Fruit (3/10)	0.87	3.73	0.99	0.88	3.80	0.99	0.89	3.74	1.02
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 ¹

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)	2.1	1.8	1.6	1.4	2.1	1.9	1.6	1.5	2.2	1.9	1.7	1.5
Pistachio (4/8)	1.4	1.2	1.0	0.9	1.4	1.2	1.1	0.9	1.4	1.2	1.1	1.0
Citrus (2/1)	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.2	1.8	1.6	1.4	1.3
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			0.6	Assume all grape			0.6	Assume all grape			0.6
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.6	irrigation type is drip			0.6	irrigation type is drip			0.6
Walnuts (4/8)	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Stone Fruit (3/10)	1.3	1.2	1.0	0.9	1.4	1.2	1.0	0.9	1.4	1.2	1.0	0.9

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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	496	425	378	331	496	449	378	354	519	449	401	354
Pistachio 106 Trees/A	349	299	249	224	349	299	274	224	349	299	274	249
Citrus 110 Trees/A	444	370	346	296	444	395	346	296	444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			29	Assume all grape			29	Assume all grape			29
Winegrapes 622 Vines/A	irrigation type is drip			26	irrigation type is drip			26	irrigation type is drip			26
Walnuts 76 Trees/A	679	607	536	464	679	607	536	464	715	607	536	464
Stonefruit 172 Trees/A	205	189	158	142	221	189	158	142	221	189	158	142

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)
 04/29/22 through 05/05/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	4/29 - 5/5 Water Use	Accum'd Seasonal Water Use	5/6 - 5/12 Estimated ETc	4/29 - 5/5 Water Use	Accum'd Seasonal Water Use	5/6 - 5/12 Estimated ETc	4/29 - 5/5 Water Use	Accum'd Seasonal Water Use	5/6 - 5/12 Estimated ETc
Almonds (3/1) *	1.54	8.68	1.57	1.61	9.21	1.57	1.66	9.37	1.57
Pistachio (4/8) * **	0.96	2.32	1.11	1.02	2.48	1.11	1.06	2.57	1.11
Citrus (2/1)	1.28	10.68	1.26	1.34	11.36	1.26	1.37	11.22	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	0.65	1.84	0.71	0.68	1.97	0.71	0.71	2.03	0.71
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.64	2.23	0.71	0.67	2.35	0.71	0.69	2.43	0.71
Walnuts (4/8)	1.38	4.06	1.40	1.45	4.35	1.41	1.49	4.48	1.40
Stone Fruit (3/10)	0.96	4.13	1.11	1.01	4.41	1.11	1.02	4.47	1.11
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.
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	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)	2.4	2.1	1.8	1.6	2.5	2.1	1.9	1.7	2.6	2.2	2.0	1.7
Pistachio (4/8)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Citrus (2/1)	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			0.7	Assume all grape			0.7	Assume all grape			0.7
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.7	irrigation type is drip			0.7	irrigation type is drip			0.7
Walnuts (4/8)	2.1	1.8	1.6	1.5	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6
Stone Fruit (3/10)	1.5	1.3	1.1	1.0	1.6	1.3	1.2	1.1	1.6	1.4	1.2	1.1

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

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	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	567	496	425	378	590	496	449	401	614	519	472	401
Pistachio 106 Trees/A	374	324	274	249	399	349	299	274	399	349	299	274
Citrus 110 Trees/A	494	420	370	321	518	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			34	Assume all grape			34	Assume all grape			34
Winegrapes 622 Vines/A	irrigation type is drip			31	irrigation type is drip			31	irrigation type is drip			31
Walnuts 76 Trees/A	750	643	572	536	786	679	607	536	822	715	643	572
Stonefruit 172 Trees/A	237	205	174	158	253	205	189	174	253	221	189	174

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