

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/21/24 through 06/27/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	06/21 - 06/27 Water Use	Accum'd Seasonal Water Use	06/28 - 07/04 Estimated ETc	06/21 - 06/27 Water Use	Accum'd Seasonal Water Use	06/28 - 07/04 Estimated ETc	06/21 - 06/27 Water Use	Accum'd Seasonal Water Use	06/28 - 07/04 Estimated ETc
Almonds (3/1) *	2.01	20.05	2.10	2.11	21.15	2.03	2.11	20.56	2.03
Pistachio (4/20) * **	2.13	12.12	2.17	2.21	12.93	2.10	2.21	12.59	2.10
Citrus (2/1)	1.26	17.08	1.26	1.32	18.06	1.26	1.31	17.53	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	1.39	9.81	1.43	1.44	10.49	1.37	1.44	10.23	1.37
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.51	10.34	1.58	1.60	11.03	1.52	1.58	10.74	1.52
Walnuts (4/20)	1.72	10.40	1.82	1.81	11.18	1.75	1.80	10.92	1.75
Stone Fruit (3/11)	1.68	13.00	1.82	1.78	13.94	1.75	1.76	13.56	1.75
Past 7 days precipitation (inches)		0.00			0.00			0.00	
Accumulated precipitation (inches) (1/1/2024)		14.98			8.98			9.71	

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

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			
	Almonds 115 Trees/A	732	638	567	496	756	661	590	519	756	661	590
Pistachio 106 Trees/A	822	698	623	548	847	722	648	573	847	722	648	573
Citrus 110 Trees/A	469	420	370	321	494	444	395	346	494	420	370	346
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape			72	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			70	irrigation type is drip			74	irrigation type is drip			74
Walnuts 76 Trees/A	929	822	715	643	1000	857	750	679	1000	857	750	679
Stonefruit 172 Trees/A	410	347	316	284	426	379	332	300	426	363	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_c)

06/21/24 through 06/27/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	06/21- 06/27 Water Use	Accum'd Seasonal Water Use	06/28- 07/04 Estimated ETc		06/21- 06/27 Water Use	Accum'd Seasonal Water Use	06/28- 07/04 Estimated ETc		06/21- 06/27 Water Use	Accum'd Seasonal Water Use	06/28- 07/04 Estimated ETc	
Almonds (3/1) *	2.18	21.54	2.17		2.18	22.17	2.24		1.91	19.64	2.24	
Pistachio (4/20) * **	2.27	13.55	2.24		2.27	13.99	2.31		2.05	12.02	2.31	
Citrus (2/1)	1.35	18.65	1.33		1.35	19.34	1.40		1.21	17.44	1.40	
Raisin Grapes (3/11) (11 ft. row spacing)	1.48	10.85	1.46		1.48	11.23	1.52		1.33	9.72	1.52	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.64	11.37	1.64		1.64	11.71	1.70		1.45	10.14	1.70	
Walnuts (4/20)	1.87	11.67	1.89		1.87	12.08	1.96		1.65	10.40	1.96	
Stone Fruit (3/11)	1.83	14.59	1.89		1.84	14.94	1.96		1.61	13.04	1.96	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2024)	6.60				6.86				5.43			

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

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			
Almonds 115 Trees/A	803	685	614	543	803	685	614	543	685	590	519	472
Pistachio 106 Trees/A	872	747	673	598	872	747	673	598	797	673	598	548
Citrus 110 Trees/A	518	444	395	346	518	444	395	346	469	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			77	Assume all grape			77	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			74	irrigation type is drip			74	irrigation type is drip			65
Walnuts 76 Trees/A	1036	893	786	715	1036	893	786	715	893	786	679	607
Stonefruit 172 Trees/A	442	379	347	300	442	395	347	300	395	332	300	268

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