

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/18/23 through 08/24/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/18 - 8/24 Water Use	Accum'd Seasonal Water Use	8/25 - 8/31 Estimated ETc	8/18 - 8/24 Water Use	Accum'd Seasonal Water Use	8/25 - 8/31 Estimated ETc	8/18 - 8/24 Water Use	Accum'd Seasonal Water Use	8/25 - 8/31 Estimated ETc
Almonds (3/13) *	1.49	33.51	1.87	1.54	35.35	1.79	1.44	34.52	1.75
Pistachio (4/20) * **	1.50	27.74	1.92	1.55	29.22	1.79	1.46	28.83	1.75
Citrus (2/1)	0.90	25.42	1.16	0.92	27.02	1.12	0.85	26.23	1.11
Raisin Grapes (3/22) (11 ft. row spacing)	0.98	18.01	1.23	1.00	18.96	1.16	0.94	18.73	1.13
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	1.11	19.75	1.41	1.15	20.80	1.34	1.07	20.53	1.31
Walnuts (4/20)	1.55	25.96	1.99	1.61	27.40	1.86	1.52	27.06	1.82
Stone Fruit (3/19)	1.50	28.90	1.92	1.55	30.39	1.79	1.46	29.94	1.75
Past 7 days precipitation (inches)	0.03			0.51			0.88		
Accumulated precipitation (inches) (1/1/2023)	16.39			13.04			16.68		

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 (3/13)	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.2	1.9	1.7	1.5
Pistachio (4/20)	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.2	1.9	1.7	1.5
Citrus (2/1)	1.4	1.2	1.1	0.9	1.4	1.2	1.1	1.0	1.3	1.1	1.0	0.9
Raisin Grapes (3/22) (11 ft. row spacing)***	Assume all grape			1.0	Assume all grape			1.1	Assume all grape			1.0
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.2	irrigation type is drip			1.2	irrigation type is drip			1.1
Walnuts (4/20)	2.4	2.1	1.8	1.6	2.5	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Stone Fruit (3/19)	2.3	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.2	1.9	1.7	1.5

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	543	472	425	378	567	496	425	378	519	449	401
Pistachio 106 Trees/A	573	498	448	399	598	523	448	399	548	473	424	374
Citrus 110 Trees/A	346	296	272	222	346	296	272	247	321	272	247	222
Raisin Grapes 566 Vines/A	Assume all grape			48	Assume all grape			53	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			52	irrigation type is drip			52	irrigation type is drip			48
Walnuts 76 Trees/A	857	750	643	572	893	750	679	607	822	715	643	572
Stonefruit 172 Trees/A	363	316	284	253	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_c)

08/18/23 through 08/24/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/18- 8/24 Water Use	Accum'd Seasonal Water Use	8/25- 8/31 Estimated ETc	8/18- 8/24 Water Use	Accum'd Seasonal Water Use	8/25- 8/31 Estimated ETc	8/18- 8/24 Water Use	Accum'd Seasonal Water Use	8/25- 8/31 Estimated ETc
Almonds (3/13) *	1.58	36.21	1.87	1.55	35.38	2.03	1.62	38.72	2.01
Pistachio (4/20) * **	1.62	30.33	1.92	1.56	29.35	2.10	1.65	32.03	2.08
Citrus (2/1)	0.96	27.30	1.21	0.95	26.94	1.30	0.99	29.39	1.28
Raisin Grapes (3/22) (11 ft. row spacing)	1.05	19.31	1.23	1.01	18.77	1.37	1.07	20.40	1.35
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.19	21.15	3.11	1.16	20.49	1.55	1.22	22.35	1.53
Walnuts (4/20)	1.69	28.41	1.99	1.63	27.45	2.17	1.71	30.04	2.15
Stone Fruit (3/19)	1.62	31.67	1.92	1.56	30.76	2.10	1.65	33.67	2.08
Past 7 days precipitation (inches)	0.18			0.74			0.25		
Accumulated precipitation (inches) (1/1/2023)	6.36			8.39			8.15		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

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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 (3/13)	2.4	2.1	1.9	1.7	2.4	2.1	1.8	1.6	2.5	2.2	1.9	1.7
Pistachio (4/20)	2.5	2.2	1.9	1.7	2.4	2.1	1.8	1.6	2.5	2.2	1.9	1.7
Citrus (2/1)	1.5	1.3	1.1	1.0	1.5	1.3	1.1	1.0	1.5	1.3	1.2	1.0
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.1	Assume all grape			1.1	Assume all grape			1.1
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.3	irrigation type is drip			1.2	irrigation type is drip			1.3
Walnuts (4/20)	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8
Stone Fruit (3/19)	2.5	2.2	1.9	1.7	2.4	2.1	1.8	1.6	2.5	2.2	1.9	1.7

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Citrus 110 Trees/A	370	321	272	247	370	321	272	247	370	321	296	247
Raisin Grapes 566 Vines/A	Assume all grape			53	Assume all grape			53	Assume all grape			53
Winegrapes 622 Vines/A	irrigation type is drip			57	irrigation type is drip			52	irrigation type is drip			57
Walnuts 76 Trees/A	929	822	715	643	893	786	679	607	929	822	715	643
Stonefruit 172 Trees/A	395	347	300	268	379	332	284	253	395	347	300	268

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