



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
05/10/24 through 05/16/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	05/10 - 05/16 Water Use	Accum'd Seasonal Water Use	05/17 - 05/23 Estimated ETc	05/10 - 05/16 Water Use	Accum'd Seasonal Water Use	05/17 - 05/23 Estimated ETc	05/10 - 05/16 Water Use	Accum'd Seasonal Water Use	05/17 - 05/23 Estimated ETc
Almonds (3/1) *	1.46	9.32	1.54	1.63	9.61	1.56	1.62	9.31	1.54
Pistachio (4/20) * **	0.76	1.69	1.02	0.85	1.76	1.04	0.84	1.72	1.02
Citrus (2/1)	1.08	9.94	1.12	1.25	10.37	1.14	1.24	10.05	1.12
Raisin Grapes (3/11) (11 ft. row spacing)	0.77	2.52	0.93	0.88	2.65	0.94	0.88	2.60	0.93
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.72	2.84	0.83	0.81	2.92	0.85	0.82	2.87	0.83
Walnuts (4/20)	0.84	1.91	1.12	0.94	2.00	1.12	0.95	2.03	1.12
Stone Fruit (3/11)	1.02	4.54	1.05	1.15	4.72	1.07	1.14	4.63	1.05
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 drip 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)	2.2	1.9	1.7	1.5	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7
Pistachio (4/20)	1.2	1.0	0.9	0.8	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Citrus (2/1)	1.7	1.4	1.3	1.1	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			0.8	Assume all grape			0.9	Assume all grape			0.9
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.8	irrigation type is drip			0.9	irrigation type is drip			0.9
Walnuts (4/20)	1.3	1.1	1.0	0.9	1.4	1.3	1.1	1.0	1.5	1.3	1.1	1.0
Stone Fruit (3/11)	1.6	1.4	1.2	1.1	1.8	1.5	1.4	1.2	1.8	1.5	1.3	1.2

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	519	449	401	354	590	519	449	401	590	519	449	401
Pistachio 106 Trees/A	299	249	224	199	324	274	249	224	324	274	249	224
Citrus 110 Trees/A	420	346	321	272	469	420	370	321	469	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			38	Assume all grape			43	Assume all grape			43
Winegrapes 622 Vines/A	irrigation type is drip			35	irrigation type is drip			39	irrigation type is drip			39
Walnuts 76 Trees/A	464	393	357	322	500	464	393	357	536	464	393	357
Stonefruit 172 Trees/A	253	221	189	174	284	237	221	189	284	237	205	189

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)
05/10/24 through 05/16/24

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	05/10- 05/16 Water Use	Accum'd Seasonal Water Use	05/17- 05/23 Estimated ETc	05/10- 05/16 Water Use	Accum'd Seasonal Water Use	05/17- 05/23 Estimated ETc	05/10- 05/16 Water Use	Accum'd Seasonal Water Use	05/17- 05/23 Estimated ETc
Almonds (3/1) *	1.69	9.56	1.69	1.76	9.83	1.73	1.61	9.12	1.74
Pistachio (4/20) * **	0.91	1.91	1.16	0.94	1.99	1.18	0.83	1.74	1.18
Citrus (2/1)	1.33	10.68	1.26	1.37	11.10	1.28	1.24	10.42	1.29
Raisin Grapes (3/11) (11 ft. row spacing)	0.91	2.73	1.01	0.94	2.83	1.05	0.85	2.57	1.05
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.85	3.04	0.94	0.88	3.12	0.96	0.77	2.85	0.96
Walnuts (4/20)	0.99	2.11	1.26	1.03	2.21	1.26	0.95	2.01	1.26
Stone Fruit (3/11)	1.22	5.01	1.19	1.26	5.08	1.23	1.14	4.64	1.24
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.

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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)	2.6	2.3	2.0	1.8	2.7	2.3	2.1	1.9	2.5	2.1	1.9	1.7
Pistachio (4/20)	1.4	1.2	1.1	1.0	1.4	1.3	1.1	1.0	1.3	1.1	1.0	0.9
Citrus (2/1)	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.0	Assume all grape			1.0	Assume all grape			0.9
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.9	irrigation type is drip			0.9	irrigation type is drip			0.8
Walnuts (4/20)	1.5	1.3	1.2	1.0	1.6	1.4	1.2	1.1	1.5	1.3	1.1	1.0
Stone Fruit (3/11)	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.8	1.5	1.3	1.2

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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	614	543	472	425	638	543	496	449	590	496	449	401
Pistachio 106 Trees/A	349	299	274	249	349	324	274	249	324	274	249	224
Citrus 110 Trees/A	494	444	395	346	518	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			48	Assume all grape			48	Assume all grape			43
Winegrapes 622 Vines/A	irrigation type is drip			39	irrigation type is drip			39	irrigation type is drip			35
Walnuts 76 Trees/A	536	464	429	357	572	500	429	393	536	464	393	357
Stonefruit 172 Trees/A	300	253	221	205	300	268	237	205	284	237	205	189

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