



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

04/19/24 through 04/25/24

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	04/19 - 04/25 Water Use	Accum'd Seasonal Water Use	04/26 - 05/02 Estimated ETc		04/19 - 04/25 Water Use	Accum'd Seasonal Water Use	04/26 - 05/02 Estimated ETc		04/19 - 04/25 Water Use	Accum'd Seasonal Water Use	04/26 - 05/02 Estimated ETc
Almonds (3/1) *	1.07	5.37	1.18		1.09	5.53	1.21		1.08	5.32	1.25
Pistachio (4/20) * **	0.12	0.12	0.30		0.11	0.11	0.30		0.11	0.11	0.31
Citrus (2/1)	0.91	6.84	0.97		0.94	7.12	1.01		0.94	6.88	1.05
Raisin Grapes (3/11) (11 ft. row spacing)	0.30	0.77	0.37		0.29	0.77	0.38		0.30	0.75	0.42
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.33	1.12	0.40		0.35	1.13	0.42		0.34	1.10	0.43
Walnuts (4/20)	0.12	0.12	0.15		0.14	0.14	0.17		0.15	0.15	0.21
Stone Fruit (3/11)	0.49	1.97	0.75		0.52	2.04	0.77		0.52	2.01	0.81
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2023)	14.98				8.64				9.06		

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.

*** Raisin Grapes and Winegrapes Irrigation should hold off until midday leaf water potential drops to -1.0 MPa, before that soil moisture reservoir is sufficient to supply the vine water demand. Update will be sent shortly once the county wide leaf water potential reaches approximate -1.0 MPa. Growers should adjust the irrigation start date based on the individual vineyard location and soil type.

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)	1.6	1.4	1.3	1.1		1.7	1.5	1.3	1.1		1.7	1.4	1.3	1.1
Pistachio (4/20)	0.2	0.2	0.1	0.1		0.2	0.1	0.1	0.1		0.2	0.1	0.1	0.1
Citrus (2/1)	1.4	1.2	1.1	1.0		1.4	1.3	1.1	1.0		1.4	1.3	1.1	1.0
Raisin Grapes (3/11) (11 ft. row spacing)***	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Walnuts (4/20)	0.2	0.2	0.1	0.1		0.2	0.2	0.2	0.1		0.2	0.2	0.2	0.2
Stone Fruit (3/11)	0.8	0.7	0.6	0.5		0.8	0.7	0.6	0.5		0.8	0.7	0.6	0.5

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			
	378	331	307	260		401	354	307	260		401	331	307	260
Almonds 115 Trees/A	378	331	307	260		401	354	307	260		401	331	307	260
Pistachio 106 Trees/A	50	50	25	25		50	25	25	25		50	25	25	25
Citrus 110 Trees/A	346	296	272	247		346	321	272	247		346	321	272	247
Raisin Grapes 566 Vines/A	0	0	0	0		0	0	0	0		0	0	0	0
Winegrapes 622 Vines/A	0	0	0	0		0	0	0	0		0	0	0	0
Walnuts 76 Trees/A	71	71	36	36		71	71	71	36		71	71	71	71
Stonefruit 172 Trees/A	126	111	95	79		126	111	95	79		126	111	95	79

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)
04/19/24 through 04/25/24

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	04/19- 04/25 Water Use	Accum'd Seasonal Water Use	04/26- 05/02 Estimated ETc	04/19- 04/25 Water Use	Accum'd Seasonal Water Use	04/26- 05/02 Estimated ETc	04/19- 04/25 Water Use	Accum'd Seasonal Water Use	04/26- 05/02 Estimated ETc
Almonds (3/1) *	1.18	5.19	1.34	1.21	5.26	1.41	1.13	5.09	1.38
Pistachio (4/20) * **	0.11	0.11	0.36	0.13	0.13	0.38	0.11	0.11	0.37
Citrus (2/1)	1.01	7.12	1.13	1.07	7.38	1.20	0.99	7.17	1.17
Raisin Grapes (3/11) (11 ft. row spacing)	0.30	0.77	0.41	0.32	0.79	0.43	0.29	0.77	0.42
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.35	1.15	0.45	0.36	1.14	0.48	0.34	1.12	0.46
Walnuts (4/20)	0.15	0.15	0.21	0.16	0.16	0.21	0.16	0.16	0.21
Stone Fruit (3/11)	0.57	2.11	0.86	0.58	2.04	0.91	0.54	1.96	0.89
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	6.41			6.69			5.29		

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.

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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)	1.8	1.6	1.4	1.2	1.9	1.6	1.4	1.3	1.7	1.5	1.3	1.2
Pistachio (4/20)	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
Citrus (2/1)	1.6	1.3	1.2	1.1	1.6	1.4	1.3	1.1	1.5	1.3	1.2	1.0
Raisin Grapes (3/11) (11 ft. row spacing)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Walnuts (4/20)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Stone Fruit (3/11)	0.9	0.8	0.7	0.6	0.9	0.8	0.7	0.6	0.8	0.7	0.6	0.6

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			
	425	378	331	283	449	378	331	307	401	354	307	283
Almonds 115 Trees/A	425	378	331	283	449	378	331	307	401	354	307	283
Pistachio 106 Trees/A	50	25	25	25	50	50	50	25	50	25	25	25
Citrus 110 Trees/A	395	321	296	272	395	346	321	272	370	321	296	247
Raisin Grapes 566 Vines/A	0	0	0	0	0	0	0	0	0	0	0	0
Winegrapes 622 Vines/A	0	0	0	0	0	0	0	0	0	0	0	17
Walnuts 76 Trees/A	71	71	71	71	71	71	71	71	71	71	71	71
Stonefruit 172 Trees/A	142	126	111	95	142	126	111	95	126	111	95	95

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