

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

04/08/22 through 04/14/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	4/8 - 4/14 Water Use	Accum'd Seasonal Water Use	4/15 - 4/21 Estimated ETc	4/8 - 4/14 Water Use	Accum'd Seasonal Water Use	4/15 - 4/21 Estimated ETc	4/8 - 4/14 Water Use	Accum'd Seasonal Water Use	4/15 - 4/21 Estimated ETc
Almonds (3/1) *	0.95	4.29	1.09	1.00	4.24	1.09	0.95	4.02	1.05
Pistachio (4/8) * **	0.26	0.26	0.54	0.28	0.28	0.54	0.26	0.26	0.52
Citrus (2/1)	0.90	6.71	0.95	0.95	6.69	0.95	0.89	6.47	0.91
Raisin Grapes (3/15) (11 ft. row spacing)	0.19	0.46	0.24	0.20	0.45	0.24	0.19	0.44	0.23
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.25	0.74	0.31	0.26	0.73	0.31	0.26	0.71	0.30
Walnuts (4/8)	0.68	0.68	0.92	0.71	0.71	0.92	0.68	0.68	0.88
Stone Fruit (3/10)	0.51	1.70	0.53	0.52	1.69	0.53	0.49	1.63	0.51
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.24			1.58			1.54		

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)	1.5	1.3	1.1	1.0	1.5	1.3	1.2	1.1	1.5	1.3	1.1	1.0
Pistachio (4/8)	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3
Citrus (2/1)	1.4	1.2	1.1	0.9	1.5	1.3	1.1	1.0	1.4	1.2	1.0	0.9
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			0.2	Assume all grape			0.2	Assume all grape			0.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.3	irrigation type is drip			0.3	irrigation type is drip			0.3
Walnuts (4/8)	1.0	0.9	0.8	0.7	1.1	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Stone Fruit (3/10)	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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	354	307	260	236	354	307	283	260	354	307	260	236
Pistachio 106 Trees/A	100	75	75	75	100	100	75	75	100	75	75	75
Citrus 110 Trees/A	346	296	272	222	370	321	272	247	346	296	247	222
Raisin Grapes 566 Vines/A	Assume all grape			10	Assume all grape			10	Assume all grape			10
Winegrapes 622 Vines/A	irrigation type is drip			13	irrigation type is drip			13	irrigation type is drip			13
Walnuts 76 Trees/A	357	322	286	250	393	322	286	250	357	322	286	250
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)

04/08/22 through 04/14/22

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	4/8 - 4/14 Water Use	Accum'd Seasonal Water Use	4/15 - 4/21 Estimated ET _c		4/8 - 4/14 Water Use	Accum'd Seasonal Water Use	4/15 - 4/21 Estimated ET _c		4/8 - 4/14 Water Use	Accum'd Seasonal Water Use	4/15 - 4/21 Estimated ET _c
Almonds (3/1) *	1.10	4.92	1.13		1.25	5.25	1.17		1.30	5.29	1.13
Pistachio (4/8) * **	0.30	0.30	0.56		0.34	0.34	0.58		0.34	0.34	0.56
Citrus (2/1)	1.05	7.46	0.98		1.19	7.98	1.02		1.23	7.75	0.98
Raisin Grapes (3/15) (11 ft. row spacing)	0.19	0.46	0.24		0.23	0.54	0.25		0.25	0.57	0.24
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.29	0.79	0.31		0.32	0.86	0.32		0.34	0.88	0.31
Walnuts (4/8)	0.80	0.80	0.95		0.91	0.91	0.99		0.92	0.92	0.95
Stone Fruit (3/10)	0.58	1.89	0.55		0.66	2.05	0.57		0.69	2.05	0.55
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	0.74				1.11				1.22		

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)	1.7	1.5	1.3	1.2		1.9	1.7	1.5	1.3		2.0	1.7	1.5	1.4
Pistachio (4/8)	0.5	0.4	0.4	0.3		0.5	0.5	0.4	0.4		0.5	0.5	0.4	0.4
Citrus (2/1)	1.6	1.4	1.2	1.1		1.8	1.6	1.4	1.3		1.9	1.6	1.4	1.3
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			0.2		Assume all grape			0.2		Assume all grape			0.3
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.3		irrigation type is drip			0.3		irrigation type is drip			0.4
Walnuts (4/8)	1.2	1.1	0.9	0.8		1.4	1.2	1.1	1.0		1.4	1.2	1.1	1.0
Stone Fruit (3/10)	0.9	0.8	0.7	0.6		1.0	0.9	0.8	0.7		1.1	0.9	0.8	0.7

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
	401	354	307	283		449	401	354	307		472	401	354	331
Almonds 115 Trees/A	401	354	307	283		449	401	354	307		472	401	354	331
Pistachio 106 Trees/A	125	100	100	75		125	125	100	100		125	125	100	100
Citrus 110 Trees/A	395	346	296	272		444	395	346	321		469	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			10		Assume all grape			10		Assume all grape			14
Winegrapes 622 Vines/A	irrigation type is drip			13		irrigation type is drip			13		irrigation type is drip			17
Walnuts 76 Trees/A	429	393	322	286		500	429	393	357		500	429	393	357
Stonefruit 172 Trees/A	142	126	111	95		158	142	126	111		174	142	126	111

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