

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/08/20 through 05/14/20

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/8 - 5/14 Water Use	Accum'd Seasonal Water Use	5/15 - 5/21 Estimated ETc	5/8 - 5/14 Water Use	Accum'd Seasonal Water Use	5/15 - 5/21 Estimated ETc	5/8 - 5/14 Water Use	Accum'd Seasonal Water Use	5/15 - 5/21 Estimated ETc
Almonds (3/5) *	1.47	8.81	1.49	1.50	8.67	1.48	1.51	7.88	1.42
Pistachio (4/13) * **	0.81	2.25	0.94	0.82	2.24	0.93	0.84	2.12	0.87
Citrus (2/1)	1.19	11.06	1.12	1.21	10.60	1.11	1.23	9.88	1.05
Raisin Grapes (3/16) (11 ft. row spacing)	0.89	2.37	0.91	0.92	2.41	0.91	0.93	2.26	0.91
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.83	2.82	0.84	0.86	2.76	0.84	0.86	2.61	0.84
Walnuts (4/8)	1.14	3.67	1.12	1.19	3.64	1.11	1.18	3.43	1.05
Stone Fruit (3/10)	1.06	4.77	1.05	1.08	4.68	1.05	1.09	4.30	1.05
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2020)	4.65			4.48			5.24		

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 (3/5)	2.3	2.0	1.7	1.5	2.3	2.0	1.8	1.6	2.3	2.0	1.8	1.6
Pistachio (4/13)	1.2	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.9	1.6	1.4	1.3
Raisin Grapes (3/16) (11 ft. row spacing)***	1.4	1.2	1.0	0.9	1.4	1.2	1.1	1.0	1.4	1.2	1.1	1.0
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Walnuts (4/8)	1.8	1.5	1.3	1.2	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.2
Stone Fruit (3/10)	1.6	1.4	1.2	1.1	1.7	1.4	1.3	1.1	1.7	1.5	1.3	1.1

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	543	472	401	354	543	472	425	378	543	472	425	378
Pistachio 106 Trees/A	299	274	249	224	324	274	249	224	324	274	249	224
Citrus 110 Trees/A	444	395	346	321	469	395	346	321	469	395	346	321
Raisin Grapes 566 Vines/A	67	58	48	43	67	58	53	48	67	58	53	48
Winegrapes 622 Vines/A	57	48	44	39	57	48	44	39	57	48	44	39
Walnuts 76 Trees/A	643	536	464	429	643	572	500	464	643	572	500	429
Stonefruit 172 Trees/A	253	221	189	174	268	221	205	174	268	237	205	174

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)

05/08/20 through 05/14/20

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/8 - 5/14 Water Use	Accum'd Seasonal Water Use	5/15 - 5/21 Estimated ETc	5/8 - 5/14 Water Use	Accum'd Seasonal Water Use	5/15 - 5/21 Estimated ETc	5/8 - 5/14 Water Use	Accum'd Seasonal Water Use	5/15 - 5/21 Estimated ETc
Almonds (3/5) *	1.53	9.09	0.94	1.62	9.76	0.95	1.62	9.66	0.95
Pistachio (4/13) * **	0.84	2.35	0.61	0.89	2.51	0.64	0.89	2.49	0.64
Citrus (2/1)	1.25	11.27	0.71	1.32	12.05	0.73	1.32	11.82	0.73
Raisin Grapes (3/16) (11 ft. row spacing)	0.82	2.22	0.52	0.87	2.37	0.53	0.87	2.40	0.53
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.79	2.75	0.48	0.83	2.91	0.49	0.83	2.81	0.49
Walnuts (4/8)	1.19	3.86	0.69	1.29	4.16	0.72	1.27	4.07	0.72
Stone Fruit (3/10)	1.10	4.96	0.68	1.16	5.26	0.69	1.17	5.23	0.69
Past 7 days precipitation (inches)	0.00			75.00			0.00		
Accumulated precipitation (inches) (1/1/2020)	2.39			79.01			3.13		

* 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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	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 (3/5)	2.4	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7
Pistachio (4/13)	1.3	1.1	1.0	0.9	1.4	1.2	1.0	0.9	1.4	1.2	1.0	0.9
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.8	1.6	1.4	2.0	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	1.3	1.1	1.0	0.9	1.3	1.2	1.0	0.9	1.3	1.2	1.0	0.9
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.2	1.1	0.9	0.8	1.2	1.1	0.9	0.8	1.3	1.1	1.0	0.9
Walnuts (4/8)	1.8	1.6	1.4	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Stone Fruit (3/10)	1.7	1.5	1.3	1.2	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.2

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Citrus 110 Trees/A	469	420	370	321	494	444	395	346	494	444	395	346
Raisin Grapes 566 Vines/A	62	53	48	43	62	58	48	43	62	58	48	43
Winegrapes 622 Vines/A	52	48	39	35	52	48	39	35	57	48	44	39
Walnuts 76 Trees/A	643	572	500	464	715	607	536	500	715	607	536	464
Stonefruit 172 Trees/A	268	237	205	189	284	237	221	189	284	253	221	189

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