



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/15/20 through 05/21/20

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	5/15 - 5/21 Water Use	Accum'd Seasonal Water Use	5/22 - 5/28 Estimated ETc		5/15 - 5/21 Water Use	Accum'd Seasonal Water Use	5/22 - 5/28 Estimated ETc		5/15 - 5/21 Water Use	Accum'd Seasonal Water Use	5/22 - 5/28 Estimated ETc
Almonds (3/5) *	1.37	10.18	1.57		1.47	10.18	1.59		1.41	9.32	1.56
Pistachio (4/13) * **	0.86	3.11	1.11		0.91	3.18	1.13		0.85	2.99	1.10
Citrus (2/1)	1.05	12.11	1.15		1.12	11.76	1.17		1.08	10.99	1.14
Raisin Grapes (3/16) (11 ft. row spacing)	0.97	3.34	1.12		1.02	3.46	1.12		0.98	3.26	1.12
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.89	3.71	1.01		0.94	3.73	1.03		0.90	3.53	1.00
Walnuts (4/8)	1.04	4.71	1.29		1.08	4.75	1.31		1.01	4.47	1.28
Stone Fruit (3/10)	1.00	5.77	1.20		1.07	5.78	1.22		1.01	5.33	1.19
Past 7 days precipitation (inches)	0.40				0.32				0.37		
Accumulated precipitation (inches) (1/1/2020)	5.05				4.80				5.61		

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)	2.1	1.8	1.6	1.4		2.3	2.0	1.7	1.5		2.2	1.9	1.7	1.5
Pistachio (4/13)	1.3	1.1	1.0	0.9		1.4	1.2	1.1	1.0		1.3	1.1	1.0	0.9
Citrus (2/1)	1.6	1.4	1.2	1.1		1.7	1.5	1.3	1.2		1.7	1.4	1.3	1.1
Raisin Grapes (3/16) (11 ft. row spacing)***	1.5	1.3	1.1	1.0		1.6	1.4	1.2	1.1		1.5	1.3	1.2	1.0
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.4	1.2	1.0	0.9		1.4	1.3	1.1	1.0		1.4	1.2	1.1	0.9
Walnuts (4/8)	1.6	1.4	1.2	1.1		1.7	1.4	1.3	1.1		1.6	1.3	1.2	1.1
Stone Fruit (3/10)	1.5	1.3	1.2	1.1		1.6	1.4	1.3	1.1		1.6	1.3	1.2	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			
	496	425	378	331		543	472	401	354		519	449	401	354
Almonds 115 Trees/A	496	425	378	331		543	472	401	354		519	449	401	354
Pistachio 106 Trees/A	324	274	249	224		349	299	274	249		324	274	249	224
Citrus 110 Trees/A	395	346	296	272		420	370	321	296		420	346	321	272
Raisin Grapes 566 Vines/A	72	62	53	48		77	67	58	53		72	62	58	48
Winegrapes 622 Vines/A	61	52	44	39		61	57	48	44		61	52	48	39
Walnuts 76 Trees/A	572	500	429	393		607	500	464	393		572	464	429	393
Stonefruit 172 Trees/A	237	205	189	174		253	221	205	174		253	205	189	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)

05/15/20 through 05/21/20

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	5/15 - 5/21 Water Use	Accum'd Seasonal Water Use	5/22 - 5/28 Estimated ETc		5/15 - 5/21 Water Use	Accum'd Seasonal Water Use	5/22 - 5/28 Estimated ETc		5/15 - 5/21 Water Use	Accum'd Seasonal Water Use	5/22 - 5/28 Estimated ETc	
Almonds (3/5) *	1.41	10.49	1.71		1.63	11.42	1.81		1.61	11.27	1.81	
Pistachio (4/13) * **	0.87	3.21	1.23		1.02	3.55	1.31		1.00	3.49	1.31	
Citrus (2/1)	1.08	12.34	1.26		1.25	13.32	1.33		1.24	13.06	1.33	
Raisin Grapes (3/16) (11 ft. row spacing)	0.90	3.12	1.13		1.05	3.44	1.23		1.04	3.45	1.23	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.83	3.58	1.06		0.97	3.90	1.12		0.96	3.78	1.12	
Walnuts (4/8)	1.04	4.89	1.47		1.20	5.38	1.51		1.18	5.25	1.51	
Stone Fruit (3/10)	1.03	5.98	1.32		1.18	6.46	1.42		1.18	6.41	1.42	
Past 7 days precipitation (inches)		0.29				0.04				0.00		
Accumulated precipitation (inches) (1/1/2020)		2.68				4.05				3.13		

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 (3/5)	2.2	1.9	1.7	1.5	2.5	2.2	1.9	1.7	2.5	2.1	1.9	1.7
Pistachio (4/13)	1.3	1.2	1.0	0.9	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.1
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 (3/16) (11 ft. row spacing)	1.4	1.2	1.1	0.9	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
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	1.5	1.3	1.1	1.0
Walnuts (4/8)	1.6	1.4	1.2	1.1	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	1.8	1.6	1.4	1.2	1.8	1.6	1.4	1.2

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Pistachio 106 Trees/A	324	299	249	224	399	349	299	274	374	324	299	274
Citrus 110 Trees/A	420	346	321	272	469	420	370	321	469	420	370	321
Raisin Grapes 566 Vines/A	67	58	53	43	77	67	58	53	77	67	58	53
Winegrapes 622 Vines/A	57	48	44	39	57	48	44	39	65	57	48	44
Walnuts 76 Trees/A	572	500	429	393	643	572	500	464	643	572	500	429
Stonefruit 172 Trees/A	253	221	189	174	284	253	221	189	284	253	221	189

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