

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/18/18 through 05/24/18

Crops (Leafout Date)	#188 Madera II				#39 Parlier				#86 Lindcove			
	5/18 - 5/24 Water Use	Accum'd Seasonal Water Use	5/25 - 5/31 Estimated ETc		5/18 - 5/24 Water Use	Accum'd Seasonal Water Use	5/25 - 5/31 Estimated ETc		5/18 - 5/24 Water Use	Accum'd Seasonal Water Use	5/25 - 5/31 Estimated ETc	
Almonds (3/16) *	1.46	9.40	1.62		1.44	9.38	1.57		1.38	8.90	1.53	
Pistachio (4/21) * **	0.65	1.70	0.88		0.65	1.64	0.84		0.61	1.58	0.81	
Citrus (2/1)	1.17	11.17	1.22		1.17	11.13	1.15		1.11	10.69	1.12	
Raisin Grapes (3/16) (11 ft. row spacing)	1.20	4.45	1.29		1.18	4.41	1.26		1.13	4.15	1.24	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.10	4.63	1.22		1.08	4.53	1.19		1.05	4.34	1.17	
Walnuts (4/4)	1.32	5.72	1.43		1.32	5.65	1.35		1.25	5.37	1.31	
Stone Fruit (3/16)	1.12	5.49	1.22		1.10	5.41	1.17		1.04	5.18	1.13	
Past 7 days precipitation (inches)		0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)		6.33				4.96				3.32		

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	#188 Madera II				#39 Parlier				#86 Lindcove			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/16)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.5
Pistachio (4/21)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Citrus (2/1)	1.8	1.6	1.4	1.2	1.8	1.6	1.4	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.2	1.7	1.5	1.3	1.2
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.7	1.5	1.3	1.2	1.7	1.4	1.3	1.1	1.6	1.4	1.2	1.1
Walnuts (4/4)	2.0	1.8	1.6	1.4	2.0	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Stone Fruit (3/16)	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2	1.6	1.4	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	#188 Madera II				#39 Parlier				#86 Lindcove			
Almonds 115 Trees/A	519	449	401	354	519	449	401	354	496	425	378	354
Pistachio 106 Trees/A	249	224	199	174	249	224	199	174	249	224	199	174
Citrus 110 Trees/A	444	395	346	296	444	395	346	296	420	370	321	296
Raisin Grapes 566 Vines/A	86	77	67	62	86	77	67	58	82	72	62	58
Winegrapes 622 Vines/A	74	65	57	52	74	61	57	48	70	61	52	48
Walnuts 76 Trees/A	715	643	572	500	715	643	572	500	679	607	536	464
Stonefruit 172 Trees/A	268	237	205	189	268	237	205	189	253	221	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)

05/18/18 through 05/24/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	5/18 - 5/24 Water Use	Accum'd Seasonal Water Use	5/25 - 5/31 Estimated ETc		5/18 - 5/24 Water Use	Accum'd Seasonal Water Use	5/25 - 5/31 Estimated ETc		5/18 - 5/24 Water Use	Accum'd Seasonal Water Use	5/25 - 5/31 Estimated ETc	
Almonds (3/16) *	1.53	9.83	1.67		1.55	10.79	1.76		1.58	10.80	1.76	
Pistachio (4/21) * **	0.68	1.73	0.93		0.69	1.84	0.95		0.71	1.85	0.95	
Citrus (2/1)	1.22	12.58	1.27		1.24	13.90	1.33		1.27	13.75	1.33	
Raisin Grapes (3/16) (11 ft. row spacing)	1.19	4.33	1.33		1.23	4.65	1.40		1.25	4.65	1.40	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.10	4.56	1.24		1.12	4.92	1.33		1.14	4.95	1.33	
Walnuts (4/4)	1.40	5.86	1.47		1.44	6.38	1.54		1.46	6.40	1.54	
Stone Fruit (3/16)	1.17	5.74	1.27		1.19	6.21	1.30		1.22	6.19	1.30	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2018)	2.56				3.04				1.62			

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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System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/16)	2.4	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.4	2.1	1.9	1.7
Pistachio (4/21)	1.0	0.9	0.8	0.7	1.1	0.9	0.8	0.7	1.1	0.9	0.8	0.7
Citrus (2/1)	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2	1.8	1.5	1.3	1.2
Walnuts (4/4)	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
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Winegrapes 622 Vines/A	74	65	57	52	74	65	57	52	79	65	57	52
Walnuts 76 Trees/A	786	679	572	536	786	679	607	536	786	679	607	536
Stonefruit 172 Trees/A	284	253	221	189	284	253	221	205	300	253	221	205

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