

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/04/18 through 05/10/18

Crops (Leafout Date)	#188 Madera II				#39 Parlier				#86 Lindcove			
	5/4 - 5/10 Water Use	Accum'd Seasonal Water Use	5/11 - 5/17 Estimated ETc		5/4 - 5/10 Water Use	Accum'd Seasonal Water Use	5/11 - 5/17 Estimated ETc		5/4 - 5/10 Water Use	Accum'd Seasonal Water Use	5/11 - 5/17 Estimated ETc	
Almonds (3/16) *	1.37	6.51	1.33		1.32	6.56	1.29		1.24	6.17	1.23	
Pistachio (4/21) * **	0.32	0.55	0.46		0.30	0.53	0.46		0.28	0.50	0.44	
Citrus (2/1)	1.21	8.78	1.12		1.13	8.79	1.08		1.06	8.44	1.05	
Raisin Grapes (3/16) (11 ft. row spacing)	0.83	2.19	0.75		0.80	2.20	0.74		0.74	2.02	0.72	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.80	2.55	0.81		0.77	2.51	0.80		0.72	2.37	0.77	
Walnuts (4/4)	1.15	3.24	1.09		1.11	3.21	1.08		1.05	3.02	1.02	
Stone Fruit (3/16)	0.90	3.40	0.93		0.86	3.37	0.90		0.83	3.22	0.87	
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)	2.1	1.8	1.6	1.4	2.0	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Pistachio (4/21)	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.3
Citrus (2/1)	1.9	1.6	1.4	1.3	1.7	1.5	1.3	1.2	1.6	1.4	1.2	1.1
Raisin Grapes (3/16) (11 ft. row spacing)	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8	1.1	1.0	0.9	0.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.2	1.1	0.9	0.8	1.2	1.0	0.9	0.8	1.1	1.0	0.8	0.8
Walnuts (4/4)	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2	1.6	1.4	1.2	1.1
Stone Fruit (3/16)	1.4	1.2	1.1	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9

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	496	425	378	331	472	425	378	331	449	401	354	307
Pistachio 106 Trees/A	125	100	100	75	125	100	100	75	125	100	100	75
Citrus 110 Trees/A	469	395	346	321	420	370	321	296	395	346	296	272
Raisin Grapes 566 Vines/A	62	53	48	43	58	53	43	38	53	48	43	38
Winegrapes 622 Vines/A	52	48	39	35	52	44	39	35	48	44	35	35
Walnuts 76 Trees/A	643	536	500	429	607	536	464	429	572	500	429	393
Stonefruit 172 Trees/A	221	189	174	142	205	174	158	142	205	174	158	142

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)

05/04/18 through 05/10/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	5/4 - 5/10 Water Use	Accum'd Seasonal Water Use	5/11 - 5/17 Estimated ETc		5/4 - 5/10 Water Use	Accum'd Seasonal Water Use	5/11 - 5/17 Estimated ETc		5/4 - 5/10 Water Use	Accum'd Seasonal Water Use	5/11 - 5/17 Estimated ETc	
Almonds (3/16) *	1.32	6.83	1.51		1.54	7.72	1.53		1.46	7.69	1.52	
Pistachio (4/21) * **	0.30	0.55	0.53		0.35	0.62	0.53		0.33	0.61	0.53	
Citrus (2/1)	1.16	10.11	1.26		1.34	11.38	1.26		1.26	11.19	1.26	
Raisin Grapes (3/16) (11 ft. row spacing)	0.75	2.10	0.00		0.87	2.36	0.00		0.83	2.34	0.00	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.73	2.52	0.00		0.83	2.83	0.00		0.80	2.83	0.00	
Walnuts (4/4)	1.11	3.27	1.23		1.29	3.69	1.25		1.23	3.69	1.24	
Stone Fruit (3/16)	0.87	3.56	1.01		1.00	3.99	1.03		0.95	3.95	1.02	
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)	2.0	1.8	1.6	1.4	2.4	2.1	1.8	1.6	2.2	1.9	1.7	1.5
Pistachio (4/21)	0.5	0.4	0.4	0.3	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.3
Citrus (2/1)	1.8	1.5	1.4	1.2	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	1.2	1.0	0.9	0.8	1.3	1.2	1.0	0.9	1.3	1.1	1.0	0.9
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.1	1.0	0.9	0.8	1.1	1.0	0.9	0.8	1.2	1.1	0.9	0.8
Walnuts (4/4)	1.7	1.5	1.3	1.2	2.0	1.7	1.5	1.4	1.9	1.6	1.4	1.3
Stone Fruit (3/16)	1.3	1.2	1.0	0.9	1.5	1.3	1.2	1.1	1.5	1.3	1.1	1.0

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