

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/01/18 through 06/07/18

Crops (Leafout Date)	#188 Madera II				#39 Parlier				#86 Lindcove			
	6/1 - 6/7 Water Use	Accum'd Seasonal Water Use	6/8 - 6/14 Estimated ETc		6/1 - 6/7 Water Use	Accum'd Seasonal Water Use	6/8 - 6/14 Estimated ETc		6/1 - 6/7 Water Use	Accum'd Seasonal Water Use	6/8 - 6/14 Estimated ETc	
Almonds (3/16) *	1.82	12.79	1.75		1.85	12.74	1.75		1.82	12.12	1.72	
Pistachio (4/21) * **	1.14	3.70	1.24		1.16	3.63	1.24		1.15	3.52	1.23	
Citrus (2/1)	1.29	13.63	1.19		1.31	13.56	1.19		1.28	13.02	1.17	
Raisin Grapes (3/16) (11 ft. row spacing)	1.57	7.37	1.47		1.60	7.30	1.47		1.57	6.92	1.44	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.57	7.48	1.54		1.60	7.36	1.54		1.56	7.05	1.51	
Walnuts (4/4)	1.63	8.72	1.54		1.67	8.63	1.54		1.63	8.22	1.54	
Stone Fruit (3/16)	1.53	8.20	1.40		1.54	8.09	1.40		1.51	7.75	1.40	
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)	2.8	2.4	2.1	1.9	2.8	2.5	2.2	1.9	2.8	2.4	2.1	1.9
Pistachio (4/21)	1.8	1.5	1.3	1.2	1.8	1.5	1.3	1.2	1.8	1.5	1.3	1.2
Citrus (2/1)	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.4	2.1	1.8	1.7	2.5	2.1	1.9	1.7	2.4	2.1	1.8	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.4	2.1	1.8	1.7	2.5	2.1	1.9	1.7	2.4	2.1	1.8	1.6
Walnuts (4/4)	2.5	2.2	1.9	1.7	2.6	2.2	2.0	1.8	2.5	2.2	1.9	1.7
Stone Fruit (3/16)	2.4	2.0	1.8	1.6	2.4	2.1	1.8	1.6	2.3	2.0	1.8	1.6

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	661	567	496	449	661	590	519	449	661	567	496	449
Pistachio 106 Trees/A	448	374	324	299	448	374	324	299	448	374	324	299
Citrus 110 Trees/A	494	420	370	346	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	115	101	86	82	120	101	91	82	115	101	86	82
Winegrapes 622 Vines/A	105	92	79	74	109	92	83	74	105	92	79	70
Walnuts 76 Trees/A	893	786	679	607	929	786	715	643	893	786	679	607
Stonefruit 172 Trees/A	379	316	284	253	379	332	284	253	363	316	284	253

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)

06/01/18 through 06/07/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	6/1 - 6/7 Water Use	Accum'd Seasonal Water Use	6/8 - 6/14 Estimated ETc		6/1 - 6/7 Water Use	Accum'd Seasonal Water Use	6/8 - 6/14 Estimated ETc		6/1 - 6/7 Water Use	Accum'd Seasonal Water Use	6/8 - 6/14 Estimated ETc	
Almonds (3/16) *	1.90	13.36	1.96		1.95	14.38	1.98		1.97	14.39	2.01	
Pistachio (4/21) * **	1.19	3.82	1.37		1.23	3.98	1.39		1.23	3.97	1.42	
Citrus (2/1)	1.32	15.12	1.33		1.36	16.51	1.35		1.39	16.35	1.38	
Raisin Grapes (3/16) (11 ft. row spacing)	1.61	7.28	1.61		1.67	7.68	1.63		1.67	7.67	1.66	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.59	7.43	1.68		1.63	7.84	1.70		1.65	7.88	1.73	
Walnuts (4/4)	1.71	8.98	1.75		1.75	9.57	1.77		1.77	9.59	1.80	
Stone Fruit (3/16)	1.58	8.53	1.61		1.62	9.05	1.61		1.64	9.04	1.61	
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)	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1
Pistachio (4/21)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.9	1.6	1.4	1.3
Citrus (2/1)	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.1	1.9	1.6	1.5
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.1	1.9	1.7	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.4	2.1	1.9	1.7	2.4	2.1	1.9	1.7	2.5	2.2	1.9	1.7
Walnuts (4/4)	2.6	2.3	2.0	1.8	2.7	2.3	2.1	1.8	2.7	2.4	2.1	1.9
Stone Fruit (3/16)	2.4	2.1	1.9	1.7	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

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Almonds 115 Trees/A	685	590	519	472	708	614	543	496	708	614	543	496
Pistachio 106 Trees/A	448	399	349	324	473	399	349	324	473	399	349	324
Citrus 110 Trees/A	494	444	395	346	518	444	395	346	518	469	395	370
Raisin Grapes 566 Vines/A	120	101	91	82	125	106	96	86	125	106	96	86
Winegrapes 622 Vines/A	105	92	83	74	105	92	83	74	109	96	83	74
Walnuts 76 Trees/A	929	822	715	643	965	822	750	643	965	857	750	679
Stonefruit 172 Trees/A	379	332	300	268	395	347	300	268	395	347	300	268

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