

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/08/18 through 06/14/18

Crops (Leafout Date)	#188 Madera II				#39 Parlier				#86 Lindcove			
	6/8 - 6/14 Water Use	Accum'd Seasonal Water Use	6/15- 6/21 Estimated ETc		6/8 - 6/14 Water Use	Accum'd Seasonal Water Use	6/15- 6/21 Estimated ETc		6/8 - 6/14 Water Use	Accum'd Seasonal Water Use	6/15- 6/21 Estimated ETc	
Almonds (3/16) *	1.93	14.72	1.80		1.93	14.67	1.82		1.89	14.01	1.79	
Pistachio (4/21) * **	1.37	5.07	1.61		1.37	5.00	1.63		1.35	4.87	1.60	
Citrus (2/1)	1.31	14.94	1.24		1.31	14.87	1.26		1.28	14.30	1.23	
Raisin Grapes (3/16) (11 ft. row spacing)	1.65	9.02	1.54		1.65	8.95	1.54		1.62	8.54	1.54	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.74	9.22	1.66		1.72	9.08	1.68		1.70	8.75	1.65	
Walnuts (4/4)	1.72	10.44	1.67		1.73	10.36	1.69		1.69	9.91	1.66	
Stone Fruit (3/16)	1.57	9.77	1.57		1.57	9.66	1.59		1.54	9.29	1.56	
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)	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Pistachio (4/21)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4
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)	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.7	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Walnuts (4/4)	2.6	2.3	2.0	1.8	2.7	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Stone Fruit (3/16)	2.4	2.1	1.8	1.7	2.4	2.1	1.8	1.7	2.4	2.1	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	708	614	543	472	708	614	543	472	685	590	519	472
Pistachio 106 Trees/A	523	448	399	349	523	448	399	349	523	448	399	349
Citrus 110 Trees/A	494	420	370	346	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	120	106	91	82	120	106	91	82
Winegrapes 622 Vines/A	118	100	87	79	114	100	87	79	114	100	87	79
Walnuts 76 Trees/A	929	822	715	643	965	822	715	643	929	822	715	643
Stonefruit 172 Trees/A	379	332	284	268	379	332	284	268	379	332	284	253

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.

UCCE/DWR Weekly Crop Water Use Report

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			
	6/8 - 6/14 Water Use	Accum'd Seasonal Water Use	6/15- 6/21 Estimated ETc		6/8 - 6/14 Water Use	Accum'd Seasonal Water Use	6/15- 6/21 Estimated ETc		6/8 - 6/14 Water Use	Accum'd Seasonal Water Use	6/15- 6/21 Estimated ETc	
Almonds (3/16) *	2.06	15.42	1.98		2.14	16.52	2.03		2.17	16.56	2.03	
Pistachio (4/21) * **	1.46	5.28	1.78		1.53	5.51	1.83		1.55	5.52	1.83	
Citrus (2/1)	1.40	16.52	1.35		1.45	17.96	1.40		1.45	17.80	1.40	
Raisin Grapes (3/16) (11 ft. row spacing)	1.75	9.03	1.70		1.82	9.50	1.75		1.83	9.50	1.75	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.82	9.25	1.77		1.87	9.71	1.82		1.90	9.78	1.82	
Walnuts (4/4)	1.85	10.83	1.85		1.91	11.48	1.90		1.94	11.53	1.90	
Stone Fruit (3/16)	1.65	10.18	1.75		1.71	10.76	1.79		1.74	10.78	1.79	
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.

** 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	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/16)	3.2	2.7	2.4	2.2	3.3	2.9	2.5	2.3	3.3	2.9	2.6	2.3
Pistachio (4/21)	2.2	1.9	1.7	1.5	2.4	2.0	1.8	1.6	2.4	2.1	1.8	1.6
Citrus (2/1)	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Raisin Grapes (3/16) (11 ft. row spacing)	2.7	2.3	2.1	1.8	2.8	2.4	2.1	1.9	2.8	2.4	2.2	1.9
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0
Walnuts (4/4)	2.8	2.5	2.2	1.9	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.0
Stone Fruit (3/16)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.7	2.3	2.0	1.8

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	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	756	638	567	519	779	685	590	543	779	685	614	543
Pistachio 106 Trees/A	548	473	424	374	598	498	448	399	598	523	448	399
Citrus 110 Trees/A	543	469	395	370	543	469	420	370	543	469	420	370
Raisin Grapes 566 Vines/A	130	110	101	86	134	115	101	91	134	115	106	91
Winegrapes 622 Vines/A	122	105	92	83	122	105	92	83	127	109	96	87
Walnuts 76 Trees/A	1000	893	786	679	1036	893	786	715	1072	929	822	715
Stonefruit 172 Trees/A	395	347	300	268	410	363	316	284	426	363	316	284

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