

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/22/18 through 06/28/18

Crops (Leafout Date)	#188 Madera II ***				#39 Parlier				#86 Lindcove			
	6/22- 6/28 Water Use	Accum'd Seasonal Water Use	6/29- 7/5 Estimated ETc		6/22- 6/28 Water Use	Accum'd Seasonal Water Use	6/29- 7/5 Estimated ETc		6/22- 6/28 Water Use	Accum'd Seasonal Water Use	6/29- 7/5 Estimated ETc	
Almonds (3/16) *	1.91	18.48	1.97		2.02	18.51	1.95		2.00	17.82	1.96	
Pistachio (4/21) * **	1.88	8.60	2.08		1.99	8.61	2.06		1.97	8.45	2.07	
Citrus (2/1)	1.26	17.45	1.26		1.33	17.44	1.25		1.32	16.84	1.26	
Raisin Grapes (3/16) (11 ft. row spacing)	1.63	12.24	1.62		1.70	12.21	1.60		1.69	11.78	1.61	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.77	12.70	1.76		1.88	12.66	1.74		1.86	12.29	1.75	
Walnuts (4/4)	1.77	13.93	1.82		1.88	13.93	1.80		1.86	13.46	1.81	
Stone Fruit (3/16)	1.63	13.02	1.72		1.74	12.98	1.70		1.72	12.59	1.71	
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.

*** CIMIS station #188 Madera II has been taken out of service due to a conversion of the pasture to permanent crops. For the remainder of 2018 irrigation season Historical Average ET_o will be used for the weekly report.

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)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1
Pistachio (4/21)	2.9	2.5	2.2	2.0	3.1	2.7	2.3	2.1	3.0	2.6	2.3	2.1
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.8	1.6	1.4	2.0	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.7	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Walnuts (4/4)	2.7	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.5	2.2	1.9	1.7	2.7	2.3	2.0	1.8	2.6	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	#188 Madera II				#39 Parlier				#86 Lindcove			
Almonds 115 Trees/A	685	590	519	472	732	638	567	496	732	638	567	496
Pistachio 106 Trees/A	722	623	548	498	772	673	573	523	747	648	573	523
Citrus 110 Trees/A	469	420	370	321	494	444	395	346	494	444	395	346
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	110	96	86
Winegrapes 622 Vines/A	118	105	92	83	127	109	96	87	127	109	96	87
Walnuts 76 Trees/A	965	857	750	679	1036	893	786	715	1036	893	786	715
Stonefruit 172 Trees/A	395	347	300	268	426	363	316	284	410	363	316	284

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)

06/22/18 through 06/28/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	6/22- 6/28 Water Use	Accum'd Seasonal Water Use	6/29- 7/5 Estimated ETc		6/22- 6/28 Water Use	Accum'd Seasonal Water Use	6/29- 7/5 Estimated ETc		6/22- 6/28 Water Use	Accum'd Seasonal Water Use	6/29- 7/5 Estimated ETc	
Almonds (3/16) *	2.14	19.48	2.06		2.16	20.65	2.13		2.21	20.77	2.17	
Pistachio (4/21) * **	2.11	9.11	2.17		2.13	9.41	2.24		2.18	9.50	2.28	
Citrus (2/1)	1.39	19.20	1.29		1.42	20.70	1.36		1.44	20.57	1.40	
Raisin Grapes (3/16) (11 ft. row spacing)	1.78	12.45	1.64		1.80	12.97	1.71		1.85	13.05	1.75	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.97	12.98	1.85		1.99	13.51	1.92		2.04	13.66	1.96	
Walnuts (4/4)	2.00	14.62	1.91		2.02	15.34	1.98		2.07	15.47	2.02	
Stone Fruit (3/16)	1.85	13.72	1.81		1.87	14.35	1.88		1.90	14.42	1.92	
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)	3.3	2.9	2.5	2.3	3.3	2.9	2.5	2.3	3.4	2.9	2.6	2.3
Pistachio (4/21)	3.2	2.8	2.5	2.2	3.3	2.8	2.5	2.2	3.4	2.9	2.6	2.3
Citrus (2/1)	2.1	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	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.8	2.5	2.2	1.9
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1
Walnuts (4/4)	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	3.2	2.8	2.4	2.2
Stone Fruit (3/16)	2.8	2.5	2.2	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0

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	779	685	590	543	779	685	590	543	803	685	614	543
Pistachio 106 Trees/A	797	698	623	548	822	698	623	548	847	722	648	573
Citrus 110 Trees/A	518	469	395	370	543	469	420	370	543	469	420	370
Raisin Grapes 566 Vines/A	130	115	101	91	134	115	101	91	134	120	106	91
Winegrapes 622 Vines/A	131	114	100	92	131	114	100	92	135	118	105	92
Walnuts 76 Trees/A	1108	965	857	750	1108	965	857	750	1143	1000	857	786
Stonefruit 172 Trees/A	442	395	347	300	458	395	347	316	458	395	347	316

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