

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/15/18 through 06/21/18

Crops (Leafout Date)	#188 Madera II				#39 Parlier				#86 Lindcove			
	6/15- 6/21 Water Use	Accum'd Seasonal Water Use	6/22- 6/28 Estimated ETc		6/15- 6/21 Water Use	Accum'd Seasonal Water Use	6/22- 6/28 Estimated ETc		6/15- 6/21 Water Use	Accum'd Seasonal Water Use	6/22- 6/28 Estimated ETc	
Almonds (3/16) *	1.85	16.57	1.91		1.82	16.49	1.89		1.81	15.82	1.89	
Pistachio (4/21) * **	1.65	6.72	1.88		1.62	6.62	1.86		1.61	6.48	1.86	
Citrus (2/1)	1.25	16.19	1.26		1.24	16.11	1.26		1.22	15.52	1.26	
Raisin Grapes (3/16) (11 ft. row spacing)	1.59	10.61	1.63		1.56	10.51	1.61		1.55	10.09	1.61	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.71	10.93	1.77		1.70	10.78	1.75		1.68	10.43	1.75	
Walnuts (4/4)	1.72	12.16	1.77		1.69	12.05	1.75		1.69	11.60	1.75	
Stone Fruit (3/16)	1.62	11.39	1.63		1.58	11.24	1.61		1.58	10.87	1.61	
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	2.5	2.2	1.9	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Pistachio (4/21)	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7
Citrus (2/1)	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3	1.9	1.6	1.4	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.4	2.1	1.9	1.7	2.4	2.1	1.8	1.6	2.4	2.1	1.8	1.6
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.8
Walnuts (4/4)	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Stone Fruit (3/16)	2.5	2.2	1.9	1.7	2.4	2.1	1.9	1.7	2.4	2.1	1.9	1.7

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	590	519	449	661	567	496	449	661	567	496	449
Pistachio 106 Trees/A	623	548	473	424	623	548	473	424	623	548	473	424
Citrus 110 Trees/A	469	420	370	321	469	420	370	321	469	395	346	321
Raisin Grapes 566 Vines/A	115	101	91	82	115	101	86	77	115	101	86	77
Winegrapes 622 Vines/A	114	100	87	79	114	100	87	79	114	96	87	79
Walnuts 76 Trees/A	929	822	715	643	929	822	715	643	929	822	715	643
Stonefruit 172 Trees/A	395	347	300	268	379	332	300	268	379	332	300	268

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)

06/15/18 through 06/21/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	6/15- 6/21 Water Use	Accum'd Seasonal Water Use	6/22- 6/28 Estimated ETc		6/15- 6/21 Water Use	Accum'd Seasonal Water Use	6/22- 6/28 Estimated ETc		6/15- 6/21 Water Use	Accum'd Seasonal Water Use	6/22- 6/28 Estimated ETc	
Almonds (3/16) *	1.92	17.34	2.03		1.97	18.49	2.10		2.00	18.56	2.10	
Pistachio (4/21) * **	1.72	7.00	2.00		1.77	7.28	2.07		1.80	7.32	2.07	
Citrus (2/1)	1.29	17.81	1.33		1.32	19.28	1.40		1.33	19.13	1.40	
Raisin Grapes (3/16) (11 ft. row spacing)	1.64	10.67	1.68		1.67	11.17	1.75		1.70	11.20	1.75	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.76	11.01	1.82		1.81	11.52	1.89		1.84	11.62	1.89	
Walnuts (4/4)	1.79	12.62	1.89		1.84	13.32	1.96		1.87	13.40	1.96	
Stone Fruit (3/16)	1.69	11.87	1.75		1.72	12.48	1.82		1.74	12.52	1.82	
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)	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1
Pistachio (4/21)	2.6	2.3	2.0	1.8	2.7	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Citrus (2/1)	2.0	1.7	1.5	1.4	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	2.2	2.0	1.8	2.6	2.3	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.7	2.3	2.1	1.9	2.7	2.3	2.1	1.9	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	2.8	2.5	2.2	1.9	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.6	2.3	2.0	1.8	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	708	614	543	472	708	614	543	496	732	638	567	496
Pistachio 106 Trees/A	648	573	498	448	673	598	523	473	698	598	523	473
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	494	444	395	346
Raisin Grapes 566 Vines/A	120	106	91	82	125	106	96	86	125	110	96	86
Winegrapes 622 Vines/A	118	100	92	83	118	100	92	83	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1000	893	786	679	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	410	363	316	284	426	363	316	284

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