



**WEEKLY SOIL MOISTURE LOSS IN INCHES**

(Estimated Crop Evapotranspiration or ET<sub>c</sub>)

06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc
Almonds (3/16) *	1.97	20.45	1.90	2.07	20.64	1.89	2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04	2.18	10.85	2.03	2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20	1.30	18.78	1.19	1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55	1.69	13.94	1.54	1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76	1.88	14.60	1.75	1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83	1.92	15.91	1.82	1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69	1.82	14.86	1.68	1.78	14.40	1.68
<b>Past 7 days precipitation (inches)</b>	0.00			0.00			0.00		
<b>Accumulated precipitation (inches) (1/1/2018)</b>	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<sub>o</sub> will be used for the weekly report.

**PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>**

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/16)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1
Pistachio (4/21)	3.2	2.8	2.4	2.2	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3	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	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9

<sup>1</sup> 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	496	756	661	567	519	732	638	567
Pistachio 106 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	106	96	82
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300

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<sub>c</sub>)

06/29/18 through 07/05/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc
Almonds (3/16) *	2.18	21.69	2.03		2.15	22.81	2.10		2.15	22.96	2.20
Pistachio (4/21) * **	2.29	11.43	2.17		2.26	11.68	2.24		2.26	11.80	2.29
Citrus (2/1)	1.36	20.58	1.26		1.36	22.06	1.33		1.36	21.95	1.38
Raisin Grapes (3/16) (11 ft. row spacing)	1.76	14.24	1.61		1.74	14.72	1.68		1.74	14.83	1.73
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.97	14.98	1.82		1.94	15.46	1.89		1.94	15.64	1.94
Walnuts (4/4)	2.03	16.68	1.96		2.00	17.35	2.03		2.00	17.51	2.08
Stone Fruit (3/16)	1.92	15.67	1.82		1.90	16.26	1.89		1.90	16.36	1.94
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 <sup>1</sup>**

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/16)	3.4	2.9	2.6	2.3		3.3	2.9	2.5	2.3		3.3	2.9	2.5	2.3
Pistachio (4/21)	3.5	3.1	2.7	2.4		3.5	3.0	2.7	2.4		3.5	3.0	2.7	2.4
Citrus (2/1)	2.1	1.8	1.6	1.4		2.1	1.8	1.6	1.4		2.1	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.7	2.3	2.1	1.9		2.7	2.3	2.0	1.8		2.7	2.3	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	3.0	2.6	2.3	2.1		3.0	2.6	2.3	2.0		3.0	2.6	2.3	2.0
Walnuts (4/4)	3.1	2.7	2.4	2.1		3.1	2.7	2.4	2.1		3.1	2.7	2.4	2.1
Stone Fruit (3/16)	3.0	2.6	2.3	2.0		2.9	2.5	2.2	2.0		2.9	2.5	2.2	2.0

<sup>1</sup> 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			
	803	685	614	543		779	685	590	543		779	685	590	543
Almonds 115 Trees/A	803	685	614	543		779	685	590	543		779	685	590	543
Pistachio 106 Trees/A	872	772	673	598		872	747	673	598		872	747	673	598
Citrus 110 Trees/A	518	444	395	346		518	444	395	346		518	444	395	346
Raisin Grapes 566 Vines/A	130	110	101	91		130	110	96	86		130	110	96	86
Winegrapes 622 Vines/A	131	114	100	92		131	114	100	87		131	114	100	87
Walnuts 76 Trees/A	1108	965	857	750		1108	965	857	750		1108	965	857	750
Stonefruit 172 Trees/A	474	410	363	316		458	395	347	316		458	395	347	316

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