



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/19/19 through 07/25/19

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	7/19- 7/25 Water Use	Accum'd Seasonal Water Use	7/26- 8/1 Estimated ETc		7/19- 7/25 Water Use	Accum'd Seasonal Water Use	7/26- 8/1 Estimated ETc		7/19- 7/25 Water Use	Accum'd Seasonal Water Use	7/26- 8/1 Estimated ETc
Almonds (3/10) *	2.02	25.17	2.01		2.04	27.03	1.89		1.85	25.70	1.90
Pistachio (4/19) * **	2.09	18.68	2.08		2.11	19.90	1.96		1.91	19.09	1.97
Citrus (2/1)	1.24	20.84	1.24		1.25	22.42	1.12		1.12	21.15	1.13
Raisin Grapes (3/16) (11 ft. row spacing)	1.59	17.13	1.59		1.60	18.17	1.47		1.44	17.39	1.48
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.81	18.39	1.80		1.83	19.74	1.68		1.65	18.84	1.69
Walnuts (4/15)	1.88	17.03	2.03		1.90	18.25	1.91		1.72	17.38	1.92
Stone Fruit (3/20)	1.94	17.71	1.94		1.94	18.92	1.82		1.76	17.97	1.83
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2019)	11.08				7.89				10.81		

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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/10)	3.1	2.7	2.4	2.1		3.1	2.7	2.4	2.1		2.8	2.5	2.2	1.9
Pistachio (4/19)	3.2	2.8	2.5	2.2		3.2	2.8	2.5	2.2		2.9	2.5	2.2	2.0
Citrus (2/1)	1.9	1.7	1.5	1.3		1.9	1.7	1.5	1.3		1.7	1.5	1.3	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	2.4	2.1	1.9	1.7		2.5	2.1	1.9	1.7		2.2	1.9	1.7	1.5
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9		2.8	2.4	2.2	1.9		2.5	2.2	1.9	1.7
Walnuts (4/15)	2.9	2.5	2.2	2.0		2.9	2.5	2.2	2.0		2.6	2.3	2.0	1.8
Stone Fruit (3/20)	3.0	2.6	2.3	2.0		3.0	2.6	2.3	2.0		2.7	2.3	2.1	1.9

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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	732	638	567	496		732	638	567	496		661	590	519	449
Almonds 115 Trees/A	732	638	567	496		732	638	567	496		661	590	519	449
Pistachio 106 Trees/A	797	698	623	548		797	698	623	548		722	623	548	498
Citrus 110 Trees/A	469	420	370	321		469	420	370	321		420	370	321	296
Raisin Grapes 566 Vines/A	115	101	91	82		120	101	91	82		106	91	82	72
Winegrapes 622 Vines/A	122	105	92	83		122	105	96	83		109	96	83	74
Walnuts 76 Trees/A	1036	893	786	715		1036	893	786	715		929	822	715	643
Stonefruit 172 Trees/A	474	410	363	316		474	410	363	316		426	363	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_C)
07/19/19 through 07/25/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	7/19- 7/25 Water Use	Accum'd Seasonal Water Use	7/26- 8/1 Estimated ETc		7/19- 7/25 Water Use	Accum'd Seasonal Water Use	7/26- 8/1 Estimated ETc		7/19- 7/25 Water Use	Accum'd Seasonal Water Use	7/26- 8/1 Estimated ETc	
Almonds (3/10) *	2.19	29.27	1.95		2.19	29.44	2.10		2.06	27.79	2.10	
Pistachio (4/19) * **	2.26	21.85	2.02		2.26	21.24	2.17		2.13	20.21	2.17	
Citrus (2/1)	1.33	24.00	1.18		1.33	24.75	1.26		1.26	23.05	1.26	
Raisin Grapes (3/16) (11 ft. row spacing)	1.71	20.01	1.53		1.70	19.58	1.61		1.61	18.50	1.61	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.98	21.54	1.74		1.98	21.24	1.89		1.85	20.05	1.89	
Walnuts (4/15)	2.05	20.00	1.97		2.05	19.55	2.12		1.92	18.45	2.12	
Stone Fruit (3/20)	2.13	20.68	1.88		2.12	20.46	2.03		1.98	19.39	2.03	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2019)	4.80				7.42				7.08			

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			
	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 (3/10)	3.4	2.9	2.6	2.3	3.4	2.9	2.6	2.3	3.2	2.7	2.4	2.2
Pistachio (4/19)	3.5	3.0	2.7	2.4	3.5	3.0	2.7	2.4	3.3	2.8	2.5	2.2
Citrus (2/1)	2.0	1.8	1.6	1.4	2.0	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.5	2.1	1.9	1.7
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	2.8	2.5	2.2	1.9
Walnuts (4/15)	3.2	2.7	2.4	2.2	3.2	2.7	2.4	2.2	3.0	2.6	2.3	2.0
Stone Fruit (3/20)	3.3	2.8	2.5	2.2	3.3	2.8	2.5	2.2	3.0	2.6	2.3	2.1

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			
	803	685	614	543	803	685	614	543	756	638	567	519
Almonds 115 Trees/A	803	685	614	543	803	685	614	543	756	638	567	519
Pistachio 106 Trees/A	872	747	673	598	872	747	673	598	822	698	623	548
Citrus 110 Trees/A	494	444	395	346	494	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	125	110	96	86	125	110	96	86	120	101	91	82
Winegrapes 622 Vines/A	131	114	100	92	131	114	100	92	122	109	96	83
Walnuts 76 Trees/A	1143	965	857	786	1143	965	857	786	1072	929	822	715
Stonefruit 172 Trees/A	521	442	395	347	521	442	395	347	474	410	363	332

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