



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

05/31/19 through 06/06/19

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/31 - 6/6 Water Use	Accum'd Seasonal Water Use	6/7 - 6/13 Estimated ETc	5/31 - 6/6 Water Use	Accum'd Seasonal Water Use	6/7 - 6/13 Estimated ETc	5/31 - 6/6 Water Use	Accum'd Seasonal Water Use	6/7 - 6/13 Estimated ETc
Almonds (3/10) *	1.73	11.97	1.75	1.79	12.86	1.74	1.67	11.97	1.73
Pistachio (4/19) * **	1.53	4.82	1.76	1.58	5.04	1.76	1.47	4.65	1.74
Citrus (2/1)	1.20	12.50	1.19	1.22	13.41	1.19	1.17	12.43	1.16
Raisin Grapes (3/16) (11 ft. row spacing)	1.45	6.41	1.47	1.49	6.72	1.47	1.40	6.27	1.47
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.44	6.45	1.54	1.49	6.90	1.53	1.41	6.40	1.50
Walnuts (4/15)	1.42	5.48	1.47	1.47	5.81	1.46	1.39	5.37	1.43
Stone Fruit (3/20)	1.30	6.42	1.40	1.34	6.81	1.40	1.25	6.26	1.40
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2018)	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.

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%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/10)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.6	2.2	2.0	1.8
Pistachio (4/19)	2.4	2.0	1.8	1.6	2.4	2.0	1.8	1.6	2.4	2.0	1.8	1.6
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6	2.2	1.9	1.6	1.5
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6	2.2	1.9	1.7	1.5
Walnuts (4/15)	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.5	2.1	1.9	1.6	1.5
Stone Fruit (3/20)	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3

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			
	638	543	472	425	661	567	496	449	614	519	472	425
Almonds 115 Trees/A	638	543	472	425	661	567	496	449	614	519	472	425
Pistachio 106 Trees/A	598	498	448	399	598	498	448	399	598	498	448	399
Citrus 110 Trees/A	444	395	346	321	469	395	346	321	444	395	346	296
Raisin Grapes 566 Vines/A	106	91	82	72	110	96	86	77	106	91	77	72
Winegrapes 622 Vines/A	96	83	74	65	100	87	79	70	96	83	74	65
Walnuts 76 Trees/A	786	679	607	536	822	715	607	536	750	679	572	536
Stonefruit 172 Trees/A	316	268	237	221	332	284	253	221	300	268	237	205

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)
 05/31/19 through 06/06/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	5/31 - 6/6 Water Use	Accum'd Seasonal Water Use	6/7 - 6/13 Estimated ETc		5/31 - 6/6 Water Use	Accum'd Seasonal Water Use	6/7 - 6/13 Estimated ETc		5/31 - 6/6 Water Use	Accum'd Seasonal Water Use	6/7 - 6/13 Estimated ETc
Almonds (3/10) *	2.12	13.65	1.96		2.07	14.36	1.97		1.89	13.28	2.00
Pistachio (4/19) * **	1.86	5.59	1.97		1.81	5.50	1.98		1.67	5.04	2.01
Citrus (2/1)	1.49	14.15	1.33		1.44	15.23	1.34		1.33	13.86	1.37
Raisin Grapes (3/16) (11 ft. row spacing)	1.75	7.37	1.61		1.71	7.44	1.62		1.56	6.82	1.65
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.75	7.49	1.68		1.71	7.68	1.69		1.59	7.02	1.72
Walnuts (4/15)	1.73	6.31	1.61		1.69	6.31	1.62		1.57	5.77	1.65
Stone Fruit (3/20)	1.57	7.33	1.61		1.53	7.53	1.61		1.41	6.99	1.61
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	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)	3.3	2.8	2.5	2.2	3.2	2.8	2.4	2.2	2.9	2.5	2.2	2.0
Pistachio (4/19)	2.9	2.5	2.2	2.0	2.8	2.4	2.1	1.9	2.6	2.2	2.0	1.8
Citrus (2/1)	2.3	2.0	1.8	1.6	2.2	1.9	1.7	1.5	2.0	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.7	2.3	2.1	1.8	2.6	2.3	2.0	1.8	2.4	2.1	1.8	1.6
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.7	2.3	2.1	1.8	2.7	2.3	2.1	1.8	2.4	2.1	1.9	1.7
Walnuts (4/15)	2.7	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.4	2.1	1.8	1.7
Stone Fruit (3/20)	2.4	2.1	1.8	1.7	2.4	2.0	1.8	1.6	2.2	1.9	1.7	1.5

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			
	779	661	590	519	756	661	567	519	685	590	519	472
Almonds 115 Trees/A	779	661	590	519	756	661	567	519	685	590	519	472
Pistachio 106 Trees/A	722	623	548	498	698	598	523	473	648	548	498	448
Citrus 110 Trees/A	568	494	444	395	543	469	420	370	494	444	395	346
Raisin Grapes 566 Vines/A	130	110	101	86	125	110	96	86	115	101	86	77
Winegrapes 622 Vines/A	118	100	92	79	118	100	92	79	105	92	83	74
Walnuts 76 Trees/A	965	822	715	643	929	822	715	643	857	750	643	607
Stonefruit 172 Trees/A	379	332	284	268	379	316	284	253	347	300	268	237

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