

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/29/20 through 06/04/20

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	5/29 - 6/4 Water Use	Accum'd Seasonal Water Use	6/5 - 6/11 Estimated ETc		5/29 - 6/4 Water Use	Accum'd Seasonal Water Use	6/5 - 6/11 Estimated ETc		5/29 - 6/4 Water Use	Accum'd Seasonal Water Use	6/5 - 6/11 Estimated ETc	
Almonds (3/5) *	1.68	13.75	1.76		1.68	13.71	1.76		1.56	12.71	1.76	
Pistachio (4/13) * **	1.47	5.94	1.76		1.47	5.97	1.76		1.37	5.67	1.72	
Citrus (2/1)	1.19	14.69	1.20		1.19	14.31	1.19		1.13	13.46	1.19	
Raisin Grapes (3/16) (11 ft. row spacing)	1.39	6.21	1.47		1.38	6.27	1.47		1.30	5.99	1.47	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.39	6.48	1.54		1.39	6.46	1.52		1.29	6.15	1.48	
Walnuts (4/8)	1.38	7.66	1.52		1.39	7.69	1.50		1.30	7.32	1.50	
Stone Fruit (3/10)	1.37	8.60	1.44		1.37	8.59	1.44		1.29	8.04	1.44	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2020)	5.05				4.80				5.61			

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 (3/5)	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8	2.4	2.1	1.8	1.6
Pistachio (4/13)	2.3	2.0	1.7	1.5	2.3	2.0	1.7	1.5	2.1	1.8	1.6	1.4
Citrus (2/1)	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.3	1.7	1.5	1.3	1.2
Raisin Grapes (3/16) (11 ft. row spacing)***	2.1	1.9	1.6	1.5	2.1	1.8	1.6	1.5	2.0	1.7	1.5	1.4
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.1	1.9	1.6	1.5	2.1	1.9	1.6	1.5	2.0	1.7	1.5	1.4
Walnuts (4/8)	2.1	1.8	1.6	1.5	2.1	1.9	1.6	1.5	2.0	1.7	1.5	1.4
Stone Fruit (3/10)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4

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			
	614	519	472	425	614	519	472	425	567	496	425	378
Almonds 115 Trees/A	614	519	472	425	614	519	472	425	567	496	425	378
Pistachio 106 Trees/A	573	498	424	374	573	498	424	374	523	448	399	349
Citrus 110 Trees/A	444	395	346	321	444	395	346	321	420	370	321	296
Raisin Grapes 566 Vines/A	101	91	77	72	101	86	77	72	96	82	72	67
Winegrapes 622 Vines/A	92	83	70	65	92	83	70	65	87	74	65	61
Walnuts 76 Trees/A	750	643	572	536	750	679	572	536	715	607	536	500
Stonefruit 172 Trees/A	332	284	253	221	332	284	253	221	316	268	237	221

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)														
05/29/20 through 06/04/20														
Crops (Leafout Date)	#124 Panoche					#2 Five Points					#15 Stratford			
	5/29 - 6/4	Accum'd	6/5 - 6/11		5/29 - 6/4	Accum'd	6/5 - 6/11		5/29 - 6/4	Accum'd	6/5 - 6/11			
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated			
	Use	Water Use	ET _c		Use	Water Use	ET _c		Use	Water Use	ET _c			
Almonds (3/5) *	1.60	14.09	1.97		1.83	15.25	1.97		1.90	15.48	2.00			
Pistachio (4/13) * **	1.40	6.03	1.97		1.60	6.57	1.97		1.67	6.73	2.00			
Citrus (2/1)	1.12	14.92	1.33		1.28	16.06	1.33		1.33	16.09	1.36			
Raisin Grapes (3/16) (11 ft. row spacing)	1.23	5.82	0.00		1.42	6.33	0.00		1.47	6.51	0.00			
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.17	6.11	0.00		1.35	6.62	0.00		1.38	6.69	0.00			
Walnuts (4/8)	1.31	7.88	1.71		1.49	8.54	1.71		1.56	8.73	1.74			
Stone Fruit (3/10)	1.28	8.81	1.65		1.49	9.49	1.65		1.54	9.68	1.67			
Past 7 days precipitation (inches)		0.00				0.00				0.00				
Accumulated precipitation (inches) (1/1/2020)		2.68				4.05				3.13				
<p>Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop</p> <p>* 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.</p> <p>** 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.</p>														
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 (3/5)	2.5	2.1	1.9	1.7		2.8	2.4	2.2	1.9		2.9	2.5	2.2	2.0
Pistachio (4/13)	2.2	1.9	1.6	1.5		2.5	2.1	1.9	1.7		2.6	2.2	2.0	1.8
Citrus (2/1)	1.7	1.5	1.3	1.2		2.0	1.7	1.5	1.3		2.0	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	1.9	1.6	1.4	1.3		2.2	1.9	1.7	1.5		2.3	2.0	1.7	1.5
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.8	1.6	1.4	1.2		1.8	1.6	1.4	1.2		2.1	1.8	1.6	1.5
Walnuts (4/8)	2.0	1.7	1.5	1.4		2.3	2.0	1.8	1.6		2.4	2.1	1.8	1.6
Stone Fruit (3/10)	2.0	1.7	1.5	1.3		2.3	2.0	1.8	1.6		2.4	2.1	1.8	1.6
<p>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%.</p>														
PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE														
Crops	#124 Panoche					#2 Five Points					#15 Stratford			
Almonds 115 Trees/A	590	496	449	401		661	567	519	449		685	590	519	472
Pistachio 106 Trees/A	548	473	399	374		623	523	473	424		648	548	498	448
Citrus 110 Trees/A	420	370	321	296		494	420	370	321		494	444	395	346
Raisin Grapes 566 Vines/A	91	77	67	62		106	91	82	72		110	96	82	72
Winegrapes 622 Vines/A	79	70	61	52		79	70	61	52		92	79	70	65
Walnuts 76 Trees/A	715	607	536	500		822	715	643	572		857	750	643	572
Stonefruit 172 Trees/A	316	268	237	205		363	316	284	253		379	332	284	253

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