

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/04/21 through 06/10/21

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	6/4 - 6/10 Water Use	Accum'd Seasonal Water Use	6/11 - 6/17 Estimated ETc		6/4 - 6/10 Water Use	Accum'd Seasonal Water Use	6/11 - 6/17 Estimated ETc		6/4 - 6/10 Water Use	Accum'd Seasonal Water Use	6/11 - 6/17 Estimated ETc
Almonds (3/5) *	1.73	16.27	1.86		1.86	16.97	1.87		1.77	16.33	1.82
Pistachio (4/16) * **	1.94	9.84	2.06		2.11	10.45	2.07		1.99	9.96	2.02
Citrus (2/1)	1.17	16.00	1.22		1.26	16.59	1.23		1.21	15.84	1.19
Raisin Grapes (3/12) (11 ft. row spacing)	1.45	8.56	1.54		1.59	9.19	1.54		1.50	8.70	1.53
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.53	8.88	1.64		1.67	9.35	1.65		1.57	8.98	1.60
Walnuts (4/5)	1.62	12.22	1.79		1.77	12.87	1.80		1.67	12.33	1.75
Stone Fruit (3/10)	1.42	10.30	1.57		1.52	10.80	1.58		1.47	10.40	1.54
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2021)	5.54				3.66				3.90		

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)	2.7	2.3	2.0	1.8		2.9	2.5	2.2	2.0		2.7	2.4	2.1	1.9
Pistachio (4/16)	3.0	2.6	2.3	2.0		3.2	2.8	2.5	2.2		3.1	2.7	2.3	2.1
Citrus (2/1)	1.8	1.6	1.4	1.2		1.9	1.7	1.5	1.3		1.9	1.6	1.4	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	2.2	1.9	1.7	1.5		2.4	2.1	1.9	1.7		2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.4	2.0	1.8	1.6		2.6	2.2	2.0	1.8		2.4	2.1	1.8	1.7
Walnuts (4/5)	2.5	2.2	1.9	1.7		2.7	2.4	2.1	1.9		2.6	2.2	2.0	1.8
Stone Fruit (3/10)	2.2	1.9	1.7	1.5		2.3	2.0	1.8	1.6		2.3	2.0	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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	638	543	472	425		685	590	519	472		638	567	496	449
Almonds 115 Trees/A	638	543	472	425		685	590	519	472		638	567	496	449
Pistachio 106 Trees/A	747	648	573	498		797	698	623	548		772	673	573	523
Citrus 110 Trees/A	444	395	346	296		469	420	370	321		469	395	346	321
Raisin Grapes 566 Vines/A	106	91	82	72		115	101	91	82		110	96	86	77
Winegrapes 622 Vines/A	105	87	79	70		114	96	87	79		105	92	79	74
Walnuts 76 Trees/A	893	786	679	607		965	857	750	679		929	786	715	643
Stonefruit 172 Trees/A	347	300	268	237		363	316	284	253		363	316	268	237

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)

06/04/21 through 06/10/21

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/4 - 6/10 Water Use	Accum'd Seasonal Water Use	6/11- 6/17 Estimated ETc		6/4 - 6/10 Water Use	Accum'd Seasonal Water Use	6/11- 6/17 Estimated ETc		6/4 - 6/10 Water Use	Accum'd Seasonal Water Use	6/11- 6/17 Estimated ETc
Almonds (3/5) *	2.03	17.95	2.07		1.95	18.64	2.08		1.99	18.53	2.10
Pistachio (4/16) * **	2.31	11.41	2.28		2.22	11.54	2.29		2.27	11.54	2.31
Citrus (2/1)	1.37	17.86	1.37		1.32	18.70	1.38		1.35	18.37	1.40
Raisin Grapes (3/12) (11 ft. row spacing)	1.74	9.89	1.72		1.65	10.01	1.73		1.69	10.02	1.75
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.82	10.13	1.82		1.76	10.35	1.82		1.79	10.30	1.82
Walnuts (4/5)	1.96	13.94	2.01		1.87	14.27	2.02		1.92	14.17	2.04
Stone Fruit (3/10)	1.69	11.59	1.79		1.61	11.95	1.80		1.65	11.83	1.82
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83				4.65				3.06		

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.

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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 >>												
Almonds (3/5)	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1	3.1	2.7	2.3	2.1
Pistachio (4/16)	3.6	3.1	2.7	2.4	3.4	3.0	2.6	2.3	3.5	3.0	2.7	2.4
Citrus (2/1)	2.1	1.8	1.6	1.4	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/12) (11 ft. row spacing)	2.7	2.3	2.0	1.8	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Walnuts (4/5)	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.0
Stone Fruit (3/10)	2.6	2.3	2.0	1.8	2.5	2.1	1.9	1.7	2.5	2.2	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	#124 Panoche				#2 Five Points				#15 Stratford			
	Almonds 115 Trees/A	732	638	567	496	708	614	543	496	732	638	543
Pistachio 106 Trees/A	897	772	673	598	847	747	648	573	872	747	673	598
Citrus 110 Trees/A	518	444	395	346	494	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	130	110	96	86	120	106	91	82	125	110	96	86
Winegrapes 622 Vines/A	122	105	92	83	122	105	92	83	122	105	92	83
Walnuts 76 Trees/A	1072	929	822	750	1036	893	786	715	1072	929	822	715
Stonefruit 172 Trees/A	410	363	316	284	395	332	300	268	395	347	300	268

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