

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/21/21 through 05/27/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/21 - 5/27 Water Use	Accum'd Seasonal Water Use	5/28 - 6/3 Estimated ETc	5/21 - 5/27 Water Use	Accum'd Seasonal Water Use	5/28 - 6/3 Estimated ETc	5/21 - 5/27 Water Use	Accum'd Seasonal Water Use	5/28 - 6/3 Estimated ETc
Almonds (3/5) *	1.64	12.79	1.65	1.72	13.21	1.66	1.65	12.76	1.62
Pistachio (4/16) * **	1.61	6.02	1.77	1.69	6.31	1.78	1.62	6.04	1.72
Citrus (2/1)	1.19	13.59	1.16	1.25	13.97	1.17	1.20	13.36	1.13
Raisin Grapes (3/12) (11 ft. row spacing)	1.30	5.64	1.29	1.38	5.99	1.30	1.32	5.68	1.26
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.24	5.87	1.29	1.31	6.09	1.30	1.25	5.89	1.26
Walnuts (4/5)	1.48	8.95	1.55	1.56	9.31	1.56	1.49	8.95	1.52
Stone Fruit (3/10)	1.27	7.46	1.36	1.33	7.74	1.37	1.27	7.45	1.33
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)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7
Pistachio (4/16)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.5	2.0	1.8	1.6	1.4
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	1.9	1.7	1.5	1.3
Walnuts (4/5)	2.3	2.0	1.7	1.6	2.4	2.1	1.8	1.6	2.3	2.0	1.8	1.6
Stone Fruit (3/10)	2.0	1.7	1.5	1.3	2.0	1.8	1.6	1.4	2.0	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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	590	519	449	401	614	543	472	425	590	519	449	401
Pistachio 106 Trees/A	623	523	473	424	648	573	498	448	623	548	473	424
Citrus 110 Trees/A	444	395	346	321	469	420	370	321	444	395	346	321
Raisin Grapes 566 Vines/A	96	82	72	67	101	86	77	72	96	86	77	67
Winegrapes 622 Vines/A	83	74	65	57	87	74	65	61	83	74	65	57
Walnuts 76 Trees/A	822	715	607	572	857	750	643	572	822	715	643	572
Stonefruit 172 Trees/A	316	268	237	205	316	284	253	221	316	268	237	205

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)

05/21/21 through 05/27/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/21 - 5/27 Water Use	Accum'd Seasonal Water Use	5/28 - 6/3 Estimated ETc	5/21 - 5/27 Water Use	Accum'd Seasonal Water Use	5/28 - 6/3 Estimated ETc	5/21 - 5/27 Water Use	Accum'd Seasonal Water Use	5/28 - 6/3 Estimated ETc
Almonds (3/5) *	1.85	13.86	1.83	1.88	14.65	1.91	1.90	14.48	1.91
Pistachio (4/16) * **	1.83	6.91	1.96	1.86	7.15	2.04	1.88	7.08	2.04
Citrus (2/1)	1.35	15.06	1.26	1.39	15.97	1.33	1.39	15.59	1.33
Raisin Grapes (3/12) (11 ft. row spacing)	1.49	6.43	1.48	1.51	6.67	1.54	1.53	6.62	1.54
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.41	6.60	1.41	1.44	6.90	1.47	1.46	6.80	1.47
Walnuts (4/5)	1.70	10.03	1.72	1.72	10.47	1.80	1.74	10.30	1.80
Stone Fruit (3/10)	1.45	8.24	1.48	1.48	8.70	1.56	1.49	8.52	1.56
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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.8	2.5	2.2	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Pistachio (4/16)	2.8	2.4	2.2	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Citrus (2/1)	2.1	1.8	1.6	1.4	2.1	1.9	1.6	1.5	2.1	1.9	1.6	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.3	2.0	1.8	1.6	2.3	2.0	1.8	1.6	2.4	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Walnuts (4/5)	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.7	2.3	2.0	1.8
Stone Fruit (3/10)	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.6	2.3	2.0	1.8	1.6

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	661	590	519	449	685	590	519	472	685	590	519
Pistachio 106 Trees/A	698	598	548	473	722	623	548	498	722	623	548	498
Citrus 110 Trees/A	518	444	395	346	518	469	395	370	518	469	395	370
Raisin Grapes 566 Vines/A	110	96	86	77	110	96	86	77	115	96	86	77
Winegrapes 622 Vines/A	96	83	74	65	96	83	74	65	96	83	74	65
Walnuts 76 Trees/A	929	822	715	643	929	822	715	643	965	822	715	643
Stonefruit 172 Trees/A	347	300	268	237	363	316	268	253	363	316	284	253

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