

WEEKLY SOIL MOISTURE LOSS IN INCHES														
(Estimated Crop Evapotranspiration or ET _c)														
05/16/25 through 05/22/25														
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove					
	05/16 - 05/22	Accum'd	05/23 - 05/29		05/16 - 05/22	Accum'd	05/23 - 05/29		05/16 - 05/22	Accum'd	05/23 - 05/29			
	Water Use	Seasonal Water Use	Estimated ETc		Water Use	Seasonal Water Use	Estimated ETc		Water Use	Seasonal Water Use	Estimated ETc			
Almonds (3/1) *	1.54	10.67	1.60		1.73	11.08	1.62		1.63	10.19	1.61			
Pistachio (4/25) * **	1.04	2.47	1.43		1.20	2.73	1.45		1.11	2.53	1.44			
Citrus (2/1)	1.12	11.22	1.18		1.30	11.77	1.20		1.21	10.87	1.19			
Raisin Grapes (4/14) (11 ft. row spacing)	0.95	3.10	1.09		1.09	3.32	1.11		1.01	3.08	1.10			
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis) ***	0.88	3.01	1.03		1.00	3.22	1.05		0.93	3.00	1.04			
Walnuts (4/14)	1.12	3.64	1.30		1.26	3.89	1.31		1.17	3.68	1.31			
Stone Fruit (3/8)	1.05	5.80	1.32		1.22	6.19	1.34		1.14	5.71	1.33			
Past 7 days precipitation (inches)		0.00				0.00				0.00				
Accumulated precipitation (inches) (1/1/2025)		0.00				5.35				4.44				
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 drip 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			
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/1)	2.4	2.1	1.8	1.6		2.7	2.3	2.0	1.8		2.5	2.2	1.9	1.7
Pistachio (4/25)	1.6	1.4	1.2	1.1		1.8	1.6	1.4	1.3		1.7	1.5	1.3	1.2
Citrus (2/1)	1.7	1.5	1.3	1.2		2.0	1.7	1.5	1.4		1.9	1.6	1.4	1.3
Raisin Grapes (4/14) (11 ft. row spacing)***	Assume all grape			1.0		Assume all grape			1.1		Assume all grape			1.1
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.9		irrigation type is drip			1.1		irrigation type is drip			1.0
Walnuts (4/14)	1.7	1.5	1.3	1.2		1.9	1.7	1.5	1.3		1.8	1.6	1.4	1.2
Stone Fruit (3/8)	1.6	1.4	1.2	1.1		1.9	1.6	1.4	1.3		1.8	1.5	1.3	1.2
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			
Almonds 115 Trees/A	567	496	425	378		638	543	472	425		590	519	449	401
Pistachio 106 Trees/A	399	349	299	274		448	399	349	324		424	374	324	299
Citrus 110 Trees/A	420	370	321	296		494	420	370	346		469	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			48		Assume all grape			53		Assume all grape			53
Winegrapes 622 Vines/A	irrigation type is drip			39		irrigation type is drip			48		irrigation type is drip			44
Walnuts 76 Trees/A	607	536	464	429		679	607	536	464		643	572	500	429
Stonefruit 172 Trees/A	253	221	189	174		300	253	221	205		284	237	205	189
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)												
05/16/25 through 05/22/25												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	05/16- 05/22 Water Use	Accum'd Seasonal Water Use	05/23- 05/29 Estimated ETc		05/16- 05/22 Water Use	Accum'd Seasonal Water Use	05/23- 05/29 Estimated ETc		05/16- 05/22 Water Use	Accum'd Seasonal Water Use	05/23- 05/29 Estimated ETc	
Almonds (3/1) *	1.88	10.98	1.77		1.90	11.30	1.86		2.02	12.03	1.86	
Pistachio (4/25) * **	1.28	2.84	1.53		1.30	2.93	1.62		1.38	3.08	1.62	
Citrus (2/1)	1.39	12.19	1.28		1.42	12.45	1.37		1.51	13.37	1.37	
Raisin Grapes (4/14) (11 ft. row spacing)	1.18	3.47	1.21		1.17	3.56	1.27		1.26	3.79	1.27	
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	1.06	3.36	1.12		1.10	3.46	1.18		1.17	3.69	1.18	
Walnuts (4/14)	1.36	4.10	1.44		1.37	4.17	1.48		1.47	4.41	1.48	
Stone Fruit (3/8)	1.31	6.32	1.42		1.32	6.38	1.51		1.43	6.78	1.51	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2025)	2.31				3.13				2.72			

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			
System Efficiency >>>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1
Pistachio (4/25)	2.0	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.5
Citrus (2/1)	2.1	1.9	1.6	1.5	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			1.2	Assume all grape			1.2	Assume all grape			1.3
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1	irrigation type is drip			1.1	irrigation type is drip			1.2
Walnuts (4/14)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.3	2.0	1.7	1.5
Stone Fruit (3/8)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	2.2	1.9	1.7	1.5

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	685	590	519	472	685	590	519	472	732	638	567	496
Pistachio 106 Trees/A	498	424	374	324	498	424	374	349	523	448	399	374
Citrus 110 Trees/A	518	469	395	370	543	469	420	370	568	494	444	395
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			58	Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			48	irrigation type is drip			48	irrigation type is drip			52
Walnuts 76 Trees/A	750	643	572	500	750	643	572	500	822	715	607	536
Stonefruit 172 Trees/A	316	268	237	221	316	284	253	221	347	300	268	237

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