

WEEKLY SOIL MOISTURE LOSS IN INCHES															
(Estimated Crop Evapotranspiration or ET <sub>c</sub> )															
05/09/25 through 05/15/25															
Crops (Leafout Date)	#148 Merced					#39 Parlier					#258 Lemon Cove				
	05/09 - 05/15	Accum'd	05/16 - 05/22			05/09 - 05/15	Accum'd	05/16 - 05/22			05/09 - 05/15	Accum'd	05/16 - 05/22		
	Water Use	Seasonal Water Use	Estimated ETc			Water Use	Seasonal Water Use	Estimated ETc			Water Use	Seasonal Water Use	Estimated ETc		
Almonds (3/1) *	1.41	9.13	1.54			1.58	9.35	1.54			1.48	8.56	1.55		
Pistachio (4/25) * **	0.77	1.43	1.04			0.86	1.53	1.04			0.81	1.42	1.04		
Citrus (2/1)	1.07	10.10	1.12			1.24	10.47	1.12			1.16	9.66	1.13		
Raisin Grapes (4/14) (11 ft. row spacing)	0.80	2.15	0.90			0.89	2.23	0.90			0.82	2.07	0.91		
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	0.72	2.13	0.85			0.82	2.22	0.85			0.77	2.07	0.85		
Walnuts (4/14)	1.01	2.52	1.12			1.11	2.63	1.12			1.06	2.51	1.12		
Stone Fruit (3/8)	1.05	4.75	1.05			1.17	4.97	1.05			1.09	4.57	1.06		
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 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 <sup>1</sup>															
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)	2.2	1.9	1.7	1.5		2.4	2.1	1.9	1.7		2.3	2.0	1.7	1.6	
Pistachio (4/25)	1.2	1.0	0.9	0.8		1.3	1.1	1.0	0.9		1.2	1.1	1.0	0.9	
Citrus (2/1)	1.6	1.4	1.3	1.1		1.9	1.7	1.5	1.3		1.8	1.5	1.4	1.2	
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			0.8		Assume all grape			0.9		Assume all grape			0.9	
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.8		irrigation type is drip			0.9		irrigation type is drip			0.8	
Walnuts (4/14)	1.6	1.3	1.2	1.1		1.7	1.5	1.3	1.2		1.6	1.4	1.2	1.1	
Stone Fruit (3/8)	1.6	1.4	1.2	1.1		1.8	1.6	1.4	1.2		1.7	1.5	1.3	1.1	
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	519	449	401	354		567	496	449	401		543	472	401	378	
Pistachio 106 Trees/A	299	249	224	199		324	274	249	224		299	274	249	224	
Citrus 110 Trees/A	395	346	321	272		469	420	370	321		444	370	346	296	
Raisin Grapes 566 Vines/A	Assume all grape			38		Assume all grape			43		Assume all grape			43	
Winegrapes 622 Vines/A	irrigation type is drip			35		irrigation type is drip			39		irrigation type is drip			35	
Walnuts 76 Trees/A	572	464	429	393		607	536	464	429		572	500	429	393	
Stonefruit 172 Trees/A	253	221	189	174		284	253	221	189		268	237	205	174	
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.															

**(Estimated Crop Evapotranspiration or ET<sub>c</sub>)**

**05/09/25 through 05/15/25**

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	05/09- 05/15	Accum'd	05/16- 05/22		05/09- 05/15	Accum'd	05/16- 05/22		05/09- 05/15	Accum'd	05/16- 05/22	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/1) *	1.57	9.10	1.68		1.71	9.40	1.70		1.76	10.01	1.70	
Pistachio (4/25) * **	0.86	1.56	1.18		0.93	1.63	1.20		0.95	1.70	1.20	
Citrus (2/1)	1.22	10.80	1.26		1.32	11.03	1.28		1.37	11.86	1.28	
Raisin Grapes (4/14) (11 ft. row spacing)	0.88	2.29	1.05		0.97	2.39	1.06		0.99	2.53	1.06	
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	0.82	2.30	0.96		0.88	2.36	0.97		0.91	2.52	0.97	
Walnuts (4/14)	1.12	2.74	1.26		1.20	2.80	1.26		1.22	2.94	1.26	
Stone Fruit (3/8)	1.15	5.01	1.19		1.26	5.06	1.21		1.30	5.35	1.21	
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

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)	2.4	2.1	1.8	1.7	2.6	2.3	2.0	1.8	2.7	2.3	2.1	1.9
Pistachio (4/25)	1.3	1.1	1.0	0.9	1.4	1.2	1.1	1.0	1.5	1.3	1.1	1.0
Citrus (2/1)	1.9	1.6	1.4	1.3	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			0.9	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.9	irrigation type is drip			0.9	irrigation type is drip			1.0
Walnuts (4/14)	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3
Stone Fruit (3/8)	1.8	1.5	1.4	1.2	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4

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 VINI**

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	567	496	425	401	614	543	472	425	638	543	496	449
Pistachio 106 Trees/A	324	274	249	224	349	299	274	249	374	324	274	249
Citrus 110 Trees/A	469	395	346	321	494	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			48	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			39	irrigation type is drip			39	irrigation type is drip			44
Walnuts 76 Trees/A	607	536	464	429	643	572	500	464	679	572	500	464
Stonefruit 172 Trees/A	284	237	221	189	300	268	237	205	316	268	237	221

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