

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

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

05/27/22 through 06/02/22

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	5/27 - 6/2 Water Use	Accum'd Seasonal Water Use	6/3 - 6/9 Estimated ETc		5/27 - 6/2 Water Use	Accum'd Seasonal Water Use	6/3 - 6/9 Estimated ETc		5/27 - 6/2 Water Use	Accum'd Seasonal Water Use	6/3 - 6/9 Estimated ETc
Almonds (3/1) *	1.77	14.20	1.76		1.83	14.53	1.76		1.68	14.03	1.76
Pistachio (4/8) * **	1.90	8.15	2.01		1.96	8.40	2.00		1.80	8.11	2.02
Citrus (2/1)	1.24	14.54	1.19		1.29	14.83	1.19		1.19	14.41	1.19
Raisin Grapes (3/15) (11 ft. row spacing)	1.24	5.80	1.28		1.27	5.96	1.28		1.16	5.74	1.28
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.21	5.88	1.28		1.24	6.03	1.28		1.15	5.87	1.28
Walnuts (4/8)	1.62	9.61	1.66		1.68	9.98	1.65		1.54	9.68	1.67
Stone Fruit (3/10)	1.44	8.76	1.44		1.50	8.94	1.44		1.37	8.68	1.44
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.88				1.79				1.82		

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			
	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 (3/1)	2.7	2.4	2.1	1.9		2.8	2.4	2.2	1.9		2.6	2.2	2.0	1.8
Pistachio (4/8)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1		2.8	2.4	2.1	1.9
Citrus (2/1)	1.9	1.7	1.5	1.3		2.0	1.7	1.5	1.4		1.8	1.6	1.4	1.3
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.3		Assume all grape			1.3		Assume all grape			1.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.3		irrigation type is drip			1.3		irrigation type is drip			1.2
Walnuts (4/8)	2.5	2.2	1.9	1.7		2.6	2.2	2.0	1.8		2.4	2.1	1.8	1.6
Stone Fruit (3/10)	2.2	1.9	1.7	1.5		2.3	2.0	1.8	1.6		2.1	1.8	1.6	1.4

<sup>1</sup> 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	638	567	496	449		661	567	519	449		614	519	472	425
Pistachio 106 Trees/A	722	623	548	498		747	648	573	523		698	598	523	473
Citrus 110 Trees/A	469	420	370	321		494	420	370	346		444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			62		Assume all grape			62		Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			57		irrigation type is drip			57		irrigation type is drip			52
Walnuts 76 Trees/A	893	786	679	607		929	786	715	643		857	750	643	572
Stonefruit 172 Trees/A	347	300	268	237		363	316	284	253		332	284	253	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<sub>c</sub>)

05/27/22 through 06/02/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/27 - 6/2 Water Use	Accum'd Seasonal Water Use	6/3 - 6/9 Estimated ETc	5/27 - 6/2 Water Use	Accum'd Seasonal Water Use	6/3 - 6/9 Estimated ETc	5/27 - 6/2 Water Use	Accum'd Seasonal Water Use	6/3 - 6/9 Estimated ETc
Almonds (3/1) *	2.00	16.28	1.96	2.10	17.02	1.99	2.13	17.26	1.99
Pistachio (4/8) * **	2.13	9.23	2.21	2.23	9.58	2.24	2.26	9.74	2.24
Citrus (2/1)	1.40	16.29	1.30	1.46	17.13	1.33	1.47	17.04	1.33
Raisin Grapes (3/15 ) (11 ft. row spacing)	1.37	6.48	1.40	1.44	6.77	1.42	1.46	6.85	1.42
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.33	6.58	1.39	1.39	6.83	1.41	1.41	6.97	1.41
Walnuts (4/8)	1.83	10.92	1.86	1.92	11.39	1.89	1.95	11.60	1.89
Stone Fruit (3/10)	1.61	9.84	1.62	1.69	10.26	1.65	1.72	10.39	1.65
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.11			1.11			1.30		

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	#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 (3/1)	3.1	2.7	2.4	2.1	3.2	2.8	2.5	2.2	3.3	2.8	2.5	2.2
Pistachio (4/8)	3.3	2.8	2.5	2.2	3.4	3.0	2.6	2.3	3.5	3.0	2.7	2.4
Citrus (2/1)	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.5
Raisin Grapes (3/15 ) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.5	Assume all grape			1.5
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.4	irrigation type is drip			1.4	irrigation type is drip			1.5
Walnuts (4/8)	2.8	2.4	2.2	1.9	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.1
Stone Fruit (3/10)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8

<sup>1</sup> 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			
	732	638	567	496	756	661	590	519	779	661	590	519
Almonds 115 Trees/A	732	638	567	496	756	661	590	519	779	661	590	519
Pistachio 106 Trees/A	822	698	623	548	847	747	648	573	872	747	673	598
Citrus 110 Trees/A	543	469	395	370	543	469	420	370	568	494	420	370
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			72	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			61	irrigation type is drip			65
Walnuts 76 Trees/A	1000	857	786	679	1072	929	822	715	1072	929	822	750
Stonefruit 172 Trees/A	395	332	300	268	410	363	316	284	410	363	316	284

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.