

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
09/27/24 through 10/03/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	09/27 - 10/03 Water Use	Accum'd Seasonal Water Use	10/04 - 10/10 Estimated ETc	09/27 - 10/03 Water Use	Accum'd Seasonal Water Use	10/04 - 10/10 Estimated ETc	09/27 - 10/03 Water Use	Accum'd Seasonal Water Use	10/04 - 10/10 Estimated ETc
Almonds (3/1) *	1.05	44.32	0.86	1.12	46.22	0.84	1.20	45.00	0.89
Pistachio (4/20) * **	0.99	36.76	0.81	1.11	38.44	0.79	1.19	37.49	0.84
Citrus (2/1)	0.72	32.38	0.67	0.83	33.99	0.65	0.87	33.04	0.70
Raisin Grapes (3/11) (11 ft. row spacing)	0.77	26.16	0.69	0.83	27.34	0.67	0.90	26.70	0.71
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.85	28.87	0.75	0.95	30.25	0.73	1.02	29.51	0.77
Walnuts (4/20)	1.05	34.91	0.81	1.11	36.53	0.79	1.19	35.63	0.84
Stone Fruit (3/11)	1.21	37.29	1.02	1.33	39.12	1.00	1.41	38.13	1.05
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2024)	14.98			9.05			9.73		

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 >>												
Almonds (3/1)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.3
Pistachio (4/20)	1.5	1.3	1.2	1.0	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.3
Citrus (2/1)	1.1	1.0	0.8	0.8	1.3	1.1	1.0	0.9	1.3	1.2	1.0	0.9
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			0.8	Assume all grape			0.9	Assume all grape			0.9
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.9	irrigation type is drip			1.0	irrigation type is drip			1.1
Walnuts (4/20)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.3
Stone Fruit (3/11)	1.9	1.6	1.4	1.3	2.0	1.8	1.6	1.4	2.2	1.9	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			
	Almonds 115 Trees/A	378	331	283	260	401	354	307	283	425	378	331
Pistachio 106 Trees/A	374	324	299	249	424	374	324	299	448	399	349	324
Citrus 110 Trees/A	272	247	197	197	321	272	247	222	321	296	247	222
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			39	irrigation type is drip			44	irrigation type is drip			48
Walnuts 76 Trees/A	572	500	429	393	607	536	464	429	643	572	500	464
Stonefruit 172 Trees/A	300	253	221	205	316	284	253	221	347	300	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)
09/27/24 through 10/03/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	09/27- 10/03 Water Use	Accum'd Seasonal Water Use	09/27- 10/03 Estimated ETc		09/27- 10/03 Water Use	Accum'd Seasonal Water Use	09/27- 10/03 Estimated ETc		09/27- 10/03 Water Use	Accum'd Seasonal Water Use	09/27- 10/03 Estimated ETc
Almonds (3/1) *	1.27	48.06	0.98		1.24	48.62	1.08		1.27	46.75	1.03
Pistachio (4/20) * **	1.26	40.55	0.91		1.23	40.85	1.01		1.26	39.59	0.96
Citrus (2/1)	0.93	35.50	0.76		0.89	36.07	0.80		0.92	34.57	0.77
Raisin Grapes (3/11) (11 ft. row spacing)	0.96	28.75	0.77		0.94	29.02	0.80		0.96	27.98	0.77
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.08	31.77	0.83		1.05	31.94	0.92		1.08	30.93	0.88
Walnuts (4/20)	1.26	38.48	0.91		1.23	38.69	1.01		1.26	37.77	0.96
Stone Fruit (3/11)	1.48	41.31	1.18		1.45	41.54	1.29		1.48	40.36	1.24
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2024)	6.60				6.94				5.45		

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			
	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)	2.0	1.7	1.5	1.3		1.9	1.7	1.5	1.3		2.0	1.7	1.5	1.3
Pistachio (4/20)	1.9	1.7	1.5	1.3		1.9	1.6	1.4	1.3		1.9	1.7	1.5	1.3
Citrus (2/1)	1.4	1.2	1.1	1.0		1.4	1.2	1.0	0.9		1.4	1.2	1.1	1.0
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.0		Assume all grape			1.0		Assume all grape			1.0
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1		irrigation type is drip			1.1		irrigation type is drip			1.1
Walnuts (4/20)	1.9	1.7	1.5	1.3		1.9	1.6	1.4	1.3		1.9	1.7	1.5	1.3
Stone Fruit (3/11)	2.3	2.0	1.7	1.6		2.2	1.9	1.7	1.5		2.3	2.0	1.7	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			
	472	401	354	307		472	401	354	307		472	401	354	307
Almonds 115 Trees/A	472	401	354	307		449	401	354	307		472	401	354	307
Pistachio 106 Trees/A	473	424	374	324		473	399	349	324		473	424	374	324
Citrus 110 Trees/A	346	296	272	247		346	296	247	222		346	296	272	247
Raisin Grapes 566 Vines/A	Assume all grape			48		Assume all grape			48		Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			48		irrigation type is drip			48		irrigation type is drip			48
Walnuts 76 Trees/A	679	607	536	464		679	572	500	464		679	607	536	464
Stonefruit 172 Trees/A	363	316	268	253		347	300	268	237		363	316	268	253

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