

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
10/04/24 through 10/10/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	10/04 - 10/10 Water Use	Accum'd Seasonal Water Use	10/11 - 10/17 Estimated ETc	10/04 - 10/10 Water Use	Accum'd Seasonal Water Use	10/11 - 10/17 Estimated ETc	10/04 - 10/10 Water Use	Accum'd Seasonal Water Use	10/11 - 10/17 Estimated ETc
Almonds (3/1) *	0.86	45.18	0.76	1.02	47.24	0.74	1.14	46.14	0.78
Pistachio (4/20) * **	0.81	37.57	0.71	0.96	39.40	0.69	1.09	38.58	0.75
Citrus (2/1)	0.67	33.05	0.58	0.77	34.76	0.56	0.86	33.90	0.61
Raisin Grapes (3/11) (11 ft. row spacing)	0.69	26.85	0.60	0.77	28.12	0.57	0.88	27.57	0.64
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.75	29.62	0.71	0.88	31.14	0.69	0.99	30.49	0.72
Walnuts (4/20)	0.81	35.72	0.76	0.97	37.50	0.74	1.09	36.72	0.78
Stone Fruit (3/11)	1.02	38.31	0.71	1.23	40.35	0.67	1.36	39.49	0.75
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)	1.3	1.1	1.0	0.9	1.6	1.4	1.2	1.1	1.8	1.5	1.3	1.2
Pistachio (4/20)	1.2	1.1	1.0	0.9	1.5	1.3	1.1	1.0	1.7	1.5	1.3	1.1
Citrus (2/1)	1.0	0.9	0.8	0.7	1.2	1.0	0.9	0.8	1.3	1.1	1.0	0.9
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			0.7	Assume all grape			0.8	Assume all grape			0.9
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.8	irrigation type is drip			0.9	irrigation type is drip			1.0
Walnuts (4/20)	1.2	1.1	1.0	0.9	1.5	1.3	1.1	1.0	1.7	1.5	1.3	1.1
Stone Fruit (3/11)	1.6	1.4	1.2	1.1	1.9	1.6	1.4	1.3	2.1	1.8	1.6	1.4

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	307	260	236	213	378	331	283	260	425	354	307
Pistachio 106 Trees/A	299	274	249	224	374	324	274	249	424	374	324	274
Citrus 110 Trees/A	247	222	197	173	296	247	222	197	321	272	247	222
Raisin Grapes 566 Vines/A	Assume all grape			34	Assume all grape			38	Assume all grape			43
Winegrapes 622 Vines/A	irrigation type is drip			35	irrigation type is drip			39	irrigation type is drip			44
Walnuts 76 Trees/A	429	393	357	322	536	464	393	357	607	536	464	393
Stonefruit 172 Trees/A	253	221	189	174	300	253	221	205	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_c)
10/04/24 through 10/10/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	10/04- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc		10/04- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc		10/04- 10/10 Water Use	Accum'd Seasonal Water Use	10/11- 10/17 Estimated ETc
Almonds (3/1) *	1.28	49.34	0.81		1.32	49.94	0.89		1.28	48.03	0.85
Pistachio (4/20) * **	1.17	41.72	0.80		1.22	42.07	0.88		1.19	40.78	0.84
Citrus (2/1)	0.94	36.44	0.67		0.98	37.05	0.75		0.95	35.52	0.71
Raisin Grapes (3/11) (11 ft. row spacing)	0.97	29.72	0.69		0.99	30.02	0.76		0.98	28.96	0.72
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.10	32.86	0.75		1.12	33.06	0.82		1.09	32.02	0.78
Walnuts (4/20)	1.18	39.66	0.81		1.22	39.91	0.89		1.19	38.96	0.85
Stone Fruit (3/11)	1.48	42.79	0.81		1.53	43.07	0.84		1.49	41.85	0.83
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 >>														
Almonds (3/1)	2.0	1.7	1.5	1.3		2.0	1.8	1.6	1.4		2.0	1.7	1.5	1.3
Pistachio (4/20)	1.8	1.6	1.4	1.2		1.9	1.6	1.4	1.3		1.8	1.6	1.4	1.3
Citrus (2/1)	1.4	1.3	1.1	1.0		1.5	1.3	1.2	1.0		1.5	1.3	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			1.2		irrigation type is drip			1.2		irrigation type is drip			1.1
Walnuts (4/20)	1.8	1.6	1.4	1.2		1.9	1.6	1.4	1.3		1.8	1.6	1.4	1.3
Stone Fruit (3/11)	2.3	2.0	1.7	1.6		2.4	2.0	1.8	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			
	472	401	354	307		472	425	378	331		472	401	354	307
Almonds 115 Trees/A	472	401	354	307		472	425	378	331		472	401	354	307
Pistachio 106 Trees/A	448	399	349	299		473	399	349	324		448	399	349	324
Citrus 110 Trees/A	346	321	272	247		370	321	296	247		370	321	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			52		irrigation type is drip			52		irrigation type is drip			48
Walnuts 76 Trees/A	643	572	500	429		679	572	500	464		643	572	500	464
Stonefruit 172 Trees/A	363	316	268	253		379	316	284	253		363	316	284	253

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