

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
09/20/24 through 09/26/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	09/20 - 09/26	Accum'd	09/27 - 10/03	09/20 - 09/26	Accum'd	09/27 - 10/03	09/20 - 09/26	Accum'd	09/27 - 10/03
	Water Use	Seasonal Water Use	Estimated ET _c	Water Use	Seasonal Water Use	Estimated ET _c	Water Use	Seasonal Water Use	Estimated ET _c
Almonds (3/1) *	1.16	43.27	1.05	1.25	45.10	1.00	1.28	43.80	0.99
Pistachio (4/20) * **	1.09	35.77	0.99	1.20	37.33	0.94	1.23	36.30	0.93
Citrus (2/1)	0.77	31.66	0.72	0.85	33.16	0.70	0.87	32.17	0.70
Raisin Grapes (3/11) (11 ft. row spacing)	0.81	25.39	0.77	0.90	26.51	0.75	0.93	25.80	0.74
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.93	28.02	0.85	1.02	29.30	0.81	1.05	28.49	0.80
Walnuts (4/20)	1.12	33.86	1.05	1.20	35.42	1.00	1.23	34.44	0.99
Stone Fruit (3/11)	1.30	36.08	1.21	1.41	37.79	1.13	1.44	36.72	1.11
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)	1.8	1.5	1.4	1.2	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Pistachio (4/20)	1.7	1.5	1.3	1.1	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3
Citrus (2/1)	1.2	1.0	0.9	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			0.9	Assume all grape			0.9	Assume all grape			1.0
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.0	irrigation type is drip			1.1	irrigation type is drip			1.1
Walnuts (4/20)	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 (3/11)	2.0	1.7	1.5	1.4	2.2	1.9	1.7	1.5	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	425	354	331	283	449	401	354	307	472	401	354	307
Pistachio 106 Trees/A	424	374	324	274	448	399	349	324	473	399	349	324
Citrus 110 Trees/A	296	247	222	197	321	272	247	222	321	296	247	222
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			43	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			44	irrigation type is drip			48	irrigation type is drip			48
Walnuts 76 Trees/A	607	536	464	429	643	572	500	464	679	572	500	464
Stonefruit 172 Trees/A	316	268	237	221	347	300	268	237	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)
09/20/24 through 09/26/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	09/20- 09/26 Water Use	Accum'd Seasonal Water Use	09/27- 10/03 Estimated ETc		09/20- 09/26 Water Use	Accum'd Seasonal Water Use	09/27- 10/03 Estimated ETc		09/20- 09/26 Water Use	Accum'd Seasonal Water Use	09/27- 10/03 Estimated ETc
Almonds (3/1) *	1.35	46.79	1.12		1.30	47.38	1.18		1.38	45.48	1.14
Pistachio (4/20) * **	1.28	39.29	1.07		1.23	39.62	1.17		1.31	38.33	1.13
Citrus (2/1)	0.91	34.57	0.80		0.87	35.18	0.85		0.91	33.65	0.84
Raisin Grapes (3/11) (11 ft. row spacing)	0.97	27.79	0.80		0.93	28.09	0.88		0.99	27.02	0.85
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.09	30.69	0.92		1.05	30.88	1.00		1.11	29.85	0.97
Walnuts (4/20)	1.28	37.22	1.10		1.23	37.46	1.17		1.31	36.51	1.13
Stone Fruit (3/11)	1.49	39.83	1.29		1.44	40.09	1.39		1.52	38.88	1.35
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.

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	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
System Efficiency >>														
Almonds (3/1)	2.1	1.8	1.6	1.4		2.0	1.7	1.5	1.4		2.1	1.8	1.6	1.5
Pistachio (4/20)	2.0	1.7	1.5	1.3		1.9	1.6	1.4	1.3		2.0	1.7	1.5	1.4
Citrus (2/1)	1.4	1.2	1.1	1.0		1.3	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			1.2
Walnuts (4/20)	2.0	1.7	1.5	1.3		1.9	1.6	1.4	1.3		2.0	1.7	1.5	1.4
Stone Fruit (3/11)	2.3	2.0	1.8	1.6		2.2	1.9	1.7	1.5		2.3	2.0	1.8	1.6

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
Almonds 115 Trees/A	496	425	378	331		472	401	354	331		496	425	378	354
Pistachio 106 Trees/A	498	424	374	324		473	399	349	324		498	424	374	349
Citrus 110 Trees/A	346	296	272	247		321	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			52
Walnuts 76 Trees/A	715	607	536	464		679	572	500	464		715	607	536	500
Stonefruit 172 Trees/A	363	316	284	253		347	300	268	237		363	316	284	253

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