



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
08/30/24 through 09/05/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	08/30 - 09/05 Water Use	Accum'd Seasonal Water Use	09/06 - 09/12 Estimated ETc	08/30 - 09/05 Water Use	Accum'd Seasonal Water Use	09/06 - 09/12 Estimated ETc	08/30 - 09/05 Water Use	Accum'd Seasonal Water Use	09/06 - 09/12 Estimated ETc
Almonds (3/1) *	1.62	39.33	1.46	1.69	41.03	1.40	1.67	39.66	1.33
Pistachio (4/20) * **	1.65	31.91	1.51	1.71	33.32	1.45	1.71	32.22	1.38
Citrus (2/1)	1.08	28.93	1.09	1.14	30.35	1.04	1.14	29.30	0.97
Raisin Grapes (3/11) (11 ft. row spacing)	1.07	22.68	1.00	1.10	23.68	0.95	1.11	22.92	0.89
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	1.22	24.95	1.12	1.28	26.11	1.07	1.28	25.23	1.01
Walnuts (4/20)	1.69	29.90	1.53	1.75	31.30	1.45	1.75	30.26	1.35
Stone Fruit (3/11)	1.65	31.84	1.53	1.71	33.41	1.47	1.71	32.26	1.40
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2024)	14.98			8.98			9.71		

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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.8
Pistachio (4/20)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Citrus (2/1)	1.7	1.4	1.3	1.1	1.8	1.5	1.3	1.2	1.8	1.5	1.3	1.2
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			1.1	Assume all grape			1.2	Assume all grape			1.2
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.3	irrigation type is drip			1.3	irrigation type is drip			1.3
Walnuts (4/20)	2.6	2.3	2.0	1.8	2.7	2.3	2.1	1.8	2.7	2.3	2.1	1.8
Stone Fruit (3/11)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8

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			
	590	519	449	401	614	543	472	425	614	519	472	425
Almonds 115 Trees/A	590	519	449	401	614	543	472	425	614	519	472	425
Pistachio 106 Trees/A	623	548	473	424	648	573	498	448	648	573	498	448
Citrus 110 Trees/A	420	346	321	272	444	370	321	296	444	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			53	Assume all grape			58	Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			57	irrigation type is drip			57	irrigation type is drip			57
Walnuts 76 Trees/A	929	822	715	643	965	822	750	643	965	822	750	643
Stonefruit 172 Trees/A	395	347	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.

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_C)
08/30/24 through 09/05/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	08/30- 09/05 Water Use	Accum'd Seasonal Water Use	09/06- 09/12 Estimated ETc		08/30- 09/05 Water Use	Accum'd Seasonal Water Use	09/06- 09/12 Estimated ETc		08/30- 09/05 Water Use	Accum'd Seasonal Water Use	09/06- 09/12 Estimated ETc
Almonds (3/1) *	1.81	42.45	1.49		1.87	43.18	1.63		1.91	40.85	1.60
Pistachio (4/20) * **	1.83	35.03	1.54		1.90	35.52	1.68		1.96	33.80	1.65
Citrus (2/1)	1.26	31.62	1.06		1.30	32.36	1.16		1.32	30.58	1.14
Raisin Grapes (3/11) (11 ft. row spacing)	1.18	24.79	1.03		1.23	25.20	1.10		1.27	23.85	1.08
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.36	27.28	1.15		1.41	27.64	1.27		1.45	26.27	1.24
Walnuts (4/20)	1.86	32.88	1.56		1.93	33.31	1.70		1.99	31.93	1.67
Stone Fruit (3/11)	1.83	35.21	1.56		1.90	35.61	1.70		1.96	33.97	1.67
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2024)	6.60				6.86				5.43		

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)	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.9	2.5	2.2	2.0
Pistachio (4/20)	2.8	2.4	2.2	1.9		2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1
Citrus (2/1)	1.9	1.7	1.5	1.3		2.0	1.7	1.5	1.4		2.0	1.8	1.6	1.4
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.2		Assume all grape			1.3		Assume all grape			1.3
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.4		irrigation type is drip			1.5		irrigation type is drip			1.5
Walnuts (4/20)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.0		3.1	2.7	2.3	2.1
Stone Fruit (3/11)	2.8	2.4	2.2	1.9		2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1

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	#124 Panoche					#2 Five Points					#15 Stratford			
Almonds 115 Trees/A	661	567	496	449		685	590	519	472		685	590	519	472
Pistachio 106 Trees/A	698	598	548	473		722	623	548	498		747	648	573	523
Citrus 110 Trees/A	469	420	370	321		494	420	370	346		494	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			58		Assume all grape			62		Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			61		irrigation type is drip			65		irrigation type is drip			65
Walnuts 76 Trees/A	1036	893	786	715		1072	929	822	715		1108	965	822	750
Stonefruit 172 Trees/A	442	379	347	300		458	395	347	316		474	410	363	332

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