



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
08/26/22 through 09/01/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/26 - 9/1 Water Use	Accum'd Seasonal Water Use	9/2 - 9/8 Estimated ETc	8/26 - 9/1 Water Use	Accum'd Seasonal Water Use	9/2 - 9/8 Estimated ETc	8/26 - 9/1 Water Use	Accum'd Seasonal Water Use	9/2 - 9/8 Estimated ETc
Almonds (3/1) *	1.71	39.74	1.68	1.82	40.78	1.81	1.57	37.88	1.54
Pistachio (4/8) * **	1.71	34.74	1.65	1.84	35.86	1.78	1.62	33.06	1.57
Citrus (2/1)	1.07	30.34	1.12	1.13	31.16	1.24	0.99	29.16	1.04
Raisin Grapes (3/15) (11 ft. row spacing)	1.10	22.93	1.09	1.19	23.69	1.19	1.06	21.79	1.07
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.28	25.17	1.26	1.37	25.93	1.37	1.20	23.87	1.19
Walnuts (4/8)	1.68	35.58	1.48	1.79	36.70	1.61	1.59	33.96	1.40
Stone Fruit (3/10)	1.71	33.01	1.69	1.84	33.99	1.82	1.62	31.27	1.61
Past 7 days precipitation (inches)	▲ 0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.98			1.94			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 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)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.4	2.1	1.8	1.7
Pistachio (4/8)	2.6	2.3	2.0	1.8	2.8	2.5	2.2	1.9	2.5	2.2	1.9	1.7
Citrus (2/1)	1.6	1.4	1.3	1.1	1.7	1.5	1.3	1.2	1.5	1.3	1.2	1.0
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.2	Assume all grape			1.3	Assume all grape			1.1
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.3	irrigation type is drip			1.4	irrigation type is drip			1.3
Walnuts (4/8)	2.6	2.2	2.0	1.8	2.8	2.4	2.1	1.9	2.4	2.1	1.9	1.7
Stone Fruit (3/10)	2.6	2.3	2.0	1.8	2.8	2.5	2.2	1.9	2.5	2.2	1.9	1.7

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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	614	543	472	425	661	567	496	449	567	496	425	401
Pistachio 106 Trees/A	648	573	498	448	698	623	548	473	623	548	473	424
Citrus 110 Trees/A	395	346	321	272	420	370	321	296	370	321	296	247
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			62	Assume all grape			53
Winegrapes 622 Vines/A	irrigation type is drip			57	irrigation type is drip			61	irrigation type is drip			57
Walnuts 76 Trees/A	929	786	715	643	1000	857	750	679	857	750	679	607
Stonefruit 172 Trees/A	410	363	316	284	442	395	347	300	395	347	300	268

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)
08/26/22 through 09/01/22

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	8/26- 9/1 Water Use	Accum'd Seasonal Water Use	9/2- 9/8 Estimated ETc		8/26- 9/1 Water Use	Accum'd Seasonal Water Use	9/2- 9/8 Estimated ETc		8/26- 9/1 Water Use	Accum'd Seasonal Water Use	9/2- 9/8 Estimated ETc
Almonds (3/1) *	1.84	44.02	1.80		1.91	45.82	1.89		2.02	46.89	1.92
Pistachio (4/8) * **	1.86	38.08	1.81		1.94	39.53	1.90		2.09	40.56	1.93
Citrus (2/1)	1.17	33.49	1.27		1.22	34.94	1.30		1.31	35.42	1.31
Raisin Grapes (3/15) (11 ft. row spacing)	1.21	25.12	1.20		1.27	26.15	1.25		1.35	26.78	1.28
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.39	27.45	1.38		1.45	28.53	1.43		1.54	29.30	1.45
Walnuts (4/8)	1.81	39.00	1.62		1.88	40.58	1.68		1.99	41.60	1.71
Stone Fruit (3/10)	1.86	36.20	1.85		1.94	37.63	1.96		2.09	38.61	1.99
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.24				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 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	2.5	2.2	1.9		2.9	2.5	2.2	2.0		3.1	2.7	2.4	2.1
Pistachio (4/8)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.0		3.2	2.8	2.5	2.2
Citrus (2/1)	1.8	1.6	1.4	1.2		1.9	1.6	1.4	1.3		2.0	1.7	1.5	1.4
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.3		Assume all grape			1.3		Assume all grape			1.4
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5		irrigation type is drip			1.5		irrigation type is drip			1.6
Walnuts (4/8)	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		3.1	2.7	2.3	2.1
Stone Fruit (3/10)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.0		3.2	2.8	2.5	2.2

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			
	661	590	519	449		685	590	519	472		732	638	567	496
Almonds 115 Trees/A	661	590	519	449		685	590	519	472		732	638	567	496
Pistachio 106 Trees/A	722	623	548	498		747	648	573	498		797	698	623	548
Citrus 110 Trees/A	444	395	346	296		469	395	346	321		494	420	370	346
Raisin Grapes 566 Vines/A	Assume all grape			62		Assume all grape			62		Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			65		irrigation type is drip			65		irrigation type is drip			70
Walnuts 76 Trees/A	1000	857	750	679		1036	893	786	715		1108	965	822	750
Stonefruit 172 Trees/A	458	395	347	316		474	410	363	316		505	442	395	347

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