



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_C)
08/12/22 through 08/18/22

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	8/12 - 8/18 Water Use	Accum'd Seasonal Water Use	8/19 - 8/25 Estimated ETc		8/12 - 8/18 Water Use	Accum'd Seasonal Water Use	8/19 - 8/25 Estimated ETc		8/12 - 8/18 Water Use	Accum'd Seasonal Water Use	8/19 - 8/25 Estimated ETc
Almonds (3/1) *	1.89	36.20	1.86		1.95	36.99	1.85		1.92	34.51	1.74
Pistachio (4/8) * **	1.94	31.18	1.90		2.00	31.97	1.88		1.97	29.60	1.74
Citrus (2/1)	1.14	28.16	1.12		1.20	28.84	1.12		1.17	27.11	1.04
Raisin Grapes (3/15) (11 ft. row spacing)	1.25	20.64	1.22		1.30	21.18	1.22		1.28	19.56	1.12
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.43	22.52	1.40		1.48	23.06	1.39		1.45	21.32	1.30
Walnuts (4/8)	1.99	32.07	1.86		2.05	32.94	1.85		2.01	30.57	1.74
Stone Fruit (3/10)	1.94	29.45	1.90		2.00	30.10	1.88		1.97	27.81	1.74
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)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1		3.0	2.6	2.3	2.0
Pistachio (4/8)	3.0	2.6	2.3	2.0		3.1	2.7	2.4	2.1		3.0	2.6	2.3	2.1
Citrus (2/1)	1.8	1.5	1.3	1.2		1.8	1.6	1.4	1.3		1.8	1.6	1.4	1.2
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.3		Assume all grape			1.4		Assume all grape			1.3
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.5		irrigation type is drip			1.6		irrigation type is drip			1.5
Walnuts (4/8)	3.1	2.7	2.3	2.1		3.2	2.7	2.4	2.2		3.1	2.7	2.4	2.1
Stone Fruit (3/10)	3.0	2.6	2.3	2.0		3.1	2.7	2.4	2.1		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	#148 Merced					#39 Parlier					#258 Lemon Cove			
	685	590	519	472		708	614	543	496		708	614	543	472
Almonds 115 Trees/A	685	590	519	472		708	614	543	496		708	614	543	472
Pistachio 106 Trees/A	747	648	573	498		772	673	598	523		747	648	573	523
Citrus 110 Trees/A	444	370	321	296		444	395	346	321		444	395	346	296
Raisin Grapes 566 Vines/A	Assume all grape			62		Assume all grape			67		Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			65		irrigation type is drip			70		irrigation type is drip			65
Walnuts 76 Trees/A	1108	965	822	750		1143	965	857	786		1108	965	857	750
Stonefruit 172 Trees/A	474	410	363	316		489	426	379	332		474	410	363	332

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)

08/12/22 through 08/18/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/12 - 8/18 Water Use	Accum'd Seasonal Water Use	8/19- 8/25 Estimated ETc	8/12 - 8/18 Water Use	Accum'd Seasonal Water Use	8/19- 8/25 Estimated ETc	8/12 - 8/18 Water Use	Accum'd Seasonal Water Use	8/19- 8/25 Estimated ETc
Almonds (3/1) *	1.96	40.18	1.90	2.18	41.95	2.08	2.23	42.73	2.05
Pistachio (4/8) * **	2.02	34.15	1.97	2.25	35.58	2.15	2.30	36.26	2.12
Citrus (2/1)	1.19	31.09	1.15	1.34	32.52	1.26	1.38	32.80	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	1.31	22.57	1.26	1.45	23.57	1.41	1.48	24.00	1.39
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.49	24.54	1.44	1.67	25.60	1.59	1.72	26.12	1.56
Walnuts (4/8)	2.06	35.19	1.90	2.28	36.74	2.08	2.33	37.47	2.05
Stone Fruit (3/10)	2.02	32.27	1.97	2.25	33.68	2.15	2.30	34.31	2.12
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.

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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)	3.0	2.6	2.3	2.1	3.4	2.9	2.6	2.3	3.4	3.0	2.6	2.3
Pistachio (4/8)	3.1	2.7	2.4	2.1	3.5	3.0	2.6	2.4	3.5	3.1	2.7	2.4
Citrus (2/1)	1.8	1.6	1.4	1.3	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.5
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.5	Assume all grape			1.6
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.6	irrigation type is drip			1.8	irrigation type is drip			1.8
Walnuts (4/8)	3.2	2.7	2.4	2.2	3.5	3.0	2.7	2.4	3.6	3.1	2.7	2.5
Stone Fruit (3/10)	3.1	2.7	2.4	2.1	3.5	3.0	2.6	2.4	3.5	3.1	2.7	2.4

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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	708	614	543	496	803	685	614	543	803	708	614
Pistachio 106 Trees/A	772	673	598	523	872	747	648	598	872	772	673	598
Citrus 110 Trees/A	444	395	346	321	518	444	395	346	518	444	395	370
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			72	Assume all grape			77
Winegrapes 622 Vines/A	irrigation type is drip			70	irrigation type is drip			79	irrigation type is drip			79
Walnuts 76 Trees/A	1143	965	857	786	1251	1072	965	857	1286	1108	965	893
Stonefruit 172 Trees/A	489	426	379	332	553	474	410	379	553	489	426	379

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