

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
08/25/23 through 08/31/23

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/25 - 8/31 Water Use	Accum'd Seasonal Water Use	9/1 - 9/7 Estimated ET _c	8/25 - 8/31 Water Use	Accum'd Seasonal Water Use	9/1 - 9/7 Estimated ET _c	8/25 - 8/31 Water Use	Accum'd Seasonal Water Use	9/1 - 9/7 Estimated ET _c
Almonds (3/13) *	1.73	35.24	1.59	1.79	37.14	1.49	1.67	36.19	1.47
Pistachio (4/20) * **	1.74	29.48	1.63	1.80	31.02	1.56	1.69	30.52	1.54
Citrus (2/1)	1.08	26.50	1.07	1.11	28.13	1.04	1.05	27.28	1.02
Raisin Grapes (3/22) (11 ft. row spacing)	1.13	19.14	1.06	1.16	20.12	1.03	1.10	19.83	1.01
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	1.30	21.05	1.21	1.34	22.14	1.15	1.26	21.79	1.13
Walnuts (4/20)	1.81	27.77	1.67	1.87	29.27	1.60	1.76	28.82	1.58
Stone Fruit (3/19)	1.74	30.64	1.63	1.80	32.19	1.56	1.69	31.63	1.54
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2023)	16.39			13.04			16.68		

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 (3/13)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.6	2.2	2.0	1.8
Pistachio (4/20)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.6	2.3	2.0	1.8
Citrus (2/1)	1.7	1.4	1.3	1.1	1.7	1.5	1.3	1.2	1.6	1.4	1.2	1.1
Raisin Grapes (3/22) (11 ft. row spacing)***	Assume all grape			1.2	Assume all grape			1.2	Assume all grape			1.2
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.4	irrigation type is drip			1.4	irrigation type is drip			1.3
Walnuts (4/20)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.7	2.3	2.1	1.9
Stone Fruit (3/19)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	638	543	472	425	661	567	496	449	614	519	472	425
Pistachio 106 Trees/A	673	573	498	448	698	598	523	473	648	573	498	448
Citrus 110 Trees/A	420	346	321	272	420	370	321	296	395	346	296	272
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			58	Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			61	irrigation type is drip			57
Walnuts 76 Trees/A	1000	857	750	679	1036	893	786	715	965	822	750	679
Stonefruit 172 Trees/A	426	363	316	284	442	379	332	300	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)
08/25/23 through 08/31/23

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	8/25- 8/31 Water Use	Accum'd Seasonal Water Use	9/1- 9/7 Estimated ETc		8/25- 8/31 Water Use	Accum'd Seasonal Water Use	9/1- 9/7 Estimated ETc		8/25- 8/31 Water Use	Accum'd Seasonal Water Use	9/1- 9/7 Estimated ETc
Almonds (3/13) *	1.85	38.06	1.60		1.94	37.32	1.77		1.92	40.64	1.75
Pistachio (4/20) * **	1.88	32.21	1.64		1.99	31.34	1.81		1.98	34.01	1.78
Citrus (2/1)	1.20	28.50	1.10		1.25	28.19	1.25		1.24	30.63	1.24
Raisin Grapes (3/22) (11 ft. row spacing)	1.22	20.53	1.07		1.29	20.06	1.17		1.28	21.68	1.16
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.39	22.54	1.22		1.47	21.96	1.35		1.45	23.80	1.33
Walnuts (4/20)	1.95	30.36	1.68		2.06	29.51	1.85		2.05	32.09	1.82
Stone Fruit (3/19)	1.88	33.55	1.64		1.99	32.75	1.81		1.98	35.65	1.78
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2023)	6.36				8.39				8.15		

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 (3/13)	2.8	2.5	2.2	1.9		3.0	2.6	2.3	2.0		3.0	2.6	2.3	2.0
Pistachio (4/20)	2.9	2.5	2.2	2.0		3.1	2.7	2.3	2.1		3.0	2.6	2.3	2.1
Citrus (2/1)	1.8	1.6	1.4	1.3		1.9	1.7	1.5	1.3		1.9	1.7	1.5	1.3
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			1.3		Assume all grape			1.4		Assume all grape			1.3
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5		irrigation type is drip			1.5		irrigation type is drip			1.5
Walnuts (4/20)	3.0	2.6	2.3	2.1		3.2	2.7	2.4	2.2		3.2	2.7	2.4	2.2
Stone Fruit (3/19)	2.9	2.5	2.2	2.0		3.1	2.7	2.3	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	#124 Panoche					#2 Five Points					#15 Stratford			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds 115 Trees/A	661	590	519	449		708	614	543	472		708	614	543	472
Pistachio 106 Trees/A	722	623	548	498		772	673	573	523		747	648	573	523
Citrus 110 Trees/A	444	395	346	321		469	420	370	321		469	420	370	321
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			65		irrigation type is drip			65
Walnuts 76 Trees/A	1072	929	822	750		1143	965	857	786		1143	965	857	786
Stonefruit 172 Trees/A	458	395	347	316		489	426	363	332		474	410	363	332

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