

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/27/21 through 09/02/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/27 - 9/2 Water Use	Accum'd Seasonal Water Use	9/3 - 9/9 Estimated ETc	8/27 - 9/2 Water Use	Accum'd Seasonal Water Use	9/3 - 9/9 Estimated ETc	8/27 - 9/2 Water Use	Accum'd Seasonal Water Use	9/3 - 9/9 Estimated ETc
Almonds (3/5) *	1.61	38.52	1.54	1.80	41.19	1.44	1.67	38.29	1.46
Pistachio (4/16) * **	1.65	33.00	1.56	1.82	35.59	1.47	1.69	32.78	1.49
Citrus (2/1)	1.02	29.70	1.05	1.12	31.50	1.01	1.06	29.39	1.02
Raisin Grapes (3/12) (11 ft. row spacing)	1.27	26.17	1.24	1.38	28.28	1.16	1.29	26.04	1.18
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.44	28.72	1.39	1.59	31.04	1.30	1.48	28.55	1.32
Walnuts (4/5)	1.53	35.11	1.39	1.68	37.70	1.30	1.57	34.86	1.32
Stone Fruit (3/10)	1.65	31.55	1.60	1.82	34.05	1.51	1.69	31.37	1.53
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	5.54			3.66			3.90		

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 (3/5)	2.5	2.1	1.9	1.7	2.8	2.4	2.1	1.9	2.6	2.2	2.0	1.8
Pistachio (4/16)	2.5	2.2	1.9	1.7	2.8	2.4	2.1	1.9	2.6	2.3	2.0	1.8
Citrus (2/1)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.6	1.4	1.2	1.1
Raisin Grapes (3/12) (11 ft. row spacing)***	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.5	2.0	1.7	1.5	1.4
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.2	1.9	1.7	1.5	2.4	2.1	1.9	1.7	2.3	2.0	1.7	1.6
Walnuts (4/5)	2.4	2.0	1.8	1.6	2.6	2.2	2.0	1.8	2.4	2.1	1.8	1.7
Stone Fruit (3/10)	2.5	2.2	1.9	1.7	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	590	496	449	401	661	567	496	449	614	519	472	425
Pistachio 106 Trees/A	623	548	473	424	698	598	523	473	648	573	498	448
Citrus 110 Trees/A	395	346	296	272	420	370	321	296	395	346	296	272
Raisin Grapes 566 Vines/A	96	82	72	62	101	86	77	72	96	82	72	67
Winegrapes 622 Vines/A	96	83	74	65	105	92	83	74	100	87	74	70
Walnuts 76 Trees/A	857	715	643	572	929	786	715	643	857	750	643	607
Stonefruit 172 Trees/A	395	347	300	268	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)

08/27/21 through 09/02/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/27- 9/2 Water Use	Accum'd Seasonal Water Use	9/3- 9/9 Estimated ETc	8/27- 9/2 Water Use	Accum'd Seasonal Water Use	9/3- 9/9 Estimated ETc	8/27- 9/2 Water Use	Accum'd Seasonal Water Use	9/3- 9/9 Estimated ETc
Almonds (3/5) *	1.86	43.93	1.52	1.90	44.21	1.76	1.97	45.15	1.72
Pistachio (4/16) * **	1.92	38.32	1.55	1.95	38.05	1.72	2.03	39.14	1.68
Citrus (2/1)	1.20	33.88	1.07	1.22	34.53	1.22	1.26	34.79	1.18
Raisin Grapes (3/12) (11 ft. row spacing)	1.46	30.36	1.24	1.48	30.21	1.34	1.55	31.08	1.30
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.66	33.38	1.38	1.69	33.25	1.55	1.76	34.14	1.51
Walnuts (4/5)	1.75	40.52	1.38	1.78	40.47	1.55	1.85	41.43	1.51
Stone Fruit (3/10)	1.92	36.54	1.59	1.95	36.56	1.76	2.03	37.46	1.72
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.72			3.06		

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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1
Pistachio (4/16)	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3
Raisin Grapes (3/12) (11 ft. row spacing)	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.6	2.4	2.1	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.6	2.2	2.0	1.7	2.6	2.3	2.0	1.8	2.7	2.3	2.1	1.9
Walnuts (4/5)	2.7	2.3	2.1	1.8	2.7	2.4	2.1	1.9	2.8	2.5	2.2	1.9
Stone Fruit (3/10)	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.1	3.1	2.7	2.4	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	685	590	519	472	685	590	519	472	708	614	543
Pistachio 106 Trees/A	747	648	573	498	747	648	573	523	772	673	598	523
Citrus 110 Trees/A	444	395	346	321	469	395	346	321	469	420	370	321
Raisin Grapes 566 Vines/A	106	91	82	72	110	96	82	77	115	101	86	77
Winegrapes 622 Vines/A	114	96	87	74	114	100	87	79	118	100	92	83
Walnuts 76 Trees/A	965	822	750	643	965	857	750	679	1000	893	786	679
Stonefruit 172 Trees/A	474	410	363	316	474	410	363	332	489	426	379	332

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