

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/20/21 through 08/26/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/20 - 8/26 Water Use	Accum'd Seasonal Water Use	8/27 - 9/2 Estimated ETc	8/20 - 8/26 Water Use	Accum'd Seasonal Water Use	8/27 - 9/2 Estimated ETc	8/20 - 8/26 Water Use	Accum'd Seasonal Water Use	8/27 - 9/2 Estimated ETc
Almonds (3/5) *	1.60	36.91	1.72	1.69	39.39	1.56	1.37	36.62	1.60
Pistachio (4/16) * **	1.61	31.35	1.72	1.70	33.77	1.62	1.40	31.09	1.64
Citrus (2/1)	0.95	28.68	1.08	1.02	30.38	0.98	0.82	28.33	1.00
Raisin Grapes (3/12) (11 ft. row spacing)	1.22	24.90	1.30	1.29	26.90	1.26	1.07	24.75	1.26
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.40	27.28	1.51	1.49	29.45	1.41	1.20	27.07	1.43
Walnuts (4/5)	1.60	33.58	1.60	1.69	36.02	1.50	1.38	33.29	1.52
Stone Fruit (3/10)	1.61	29.90	1.72	1.70	32.23	1.62	1.40	29.68	1.64
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	2.6	2.3	2.0	1.8	2.1	1.8	1.6	1.4
Pistachio (4/16)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.2	1.9	1.6	1.5
Citrus (2/1)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.3	1.1	1.0	0.9
Raisin Grapes (3/12) (11 ft. row spacing)***	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.4	1.6	1.4	1.3	1.1
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.2	1.9	1.6	1.5	2.3	2.0	1.8	1.6	1.8	1.6	1.4	1.3
Walnuts (4/5)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.1	1.8	1.6	1.5
Stone Fruit (3/10)	2.5	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.2	1.9	1.6	1.5

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	614	543	472	425	496	425	378	331
Pistachio 106 Trees/A	623	523	473	424	648	573	498	448	548	473	399	374
Citrus 110 Trees/A	370	321	272	247	395	346	296	272	321	272	247	222
Raisin Grapes 566 Vines/A	91	77	67	62	96	82	72	67	77	67	62	53
Winegrapes 622 Vines/A	96	83	70	65	100	87	79	70	79	70	61	57
Walnuts 76 Trees/A	893	750	679	607	929	822	715	643	750	643	572	536
Stonefruit 172 Trees/A	395	332	300	268	410	363	316	284	347	300	253	237

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)

08/20/21 through 08/26/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/20- 8/26 Water Use	Accum'd Seasonal Water Use	8/27- 9/2 Estimated ETc	8/20- 8/26 Water Use	Accum'd Seasonal Water Use	8/27- 9/2 Estimated ETc	8/20- 8/26 Water Use	Accum'd Seasonal Water Use	8/27- 9/2 Estimated ETc
Almonds (3/5) *	1.74	42.07	1.70	1.79	42.31	1.87	1.80	43.18	1.84
Pistachio (4/16) * **	1.75	36.40	1.70	1.80	36.10	1.92	1.82	37.11	1.86
Citrus (2/1)	1.06	32.68	1.09	1.10	33.31	1.21	1.10	33.53	1.18
Raisin Grapes (3/12) (11 ft. row spacing)	1.33	28.90	1.28	1.38	28.73	1.45	1.39	29.53	1.42
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.53	31.72	3.44	1.58	31.56	1.66	1.59	32.38	1.63
Walnuts (4/5)	1.74	38.77	1.58	1.79	38.69	1.75	1.80	39.58	1.72
Stone Fruit (3/10)	1.75	34.62	1.70	1.80	34.61	1.92	1.82	35.43	1.86
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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	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)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Pistachio (4/16)	2.7	2.3	2.1	1.8	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Citrus (2/1)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/12) (11 ft. row spacing)	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.5	2.1	1.9	1.6	1.5
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.4	2.0	1.8	1.6	2.4	2.1	1.9	1.7	2.4	2.1	1.9	1.7
Walnuts (4/5)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Stone Fruit (3/10)	2.7	2.3	2.1	1.8	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

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	Almonds 115 Trees/A	638	543	472	425	661	567	496	449	661	567	496
Pistachio 106 Trees/A	673	573	523	448	698	598	523	473	698	598	523	473
Citrus 110 Trees/A	395	346	296	272	420	370	321	296	420	370	321	296
Raisin Grapes 566 Vines/A	96	86	77	67	101	86	77	72	101	91	77	72
Winegrapes 622 Vines/A	105	87	79	70	105	92	83	74	105	92	83	74
Walnuts 76 Trees/A	965	822	715	643	1000	857	750	679	1000	857	750	679
Stonefruit 172 Trees/A	426	363	332	284	442	379	332	300	442	379	332	300

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