

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/02/21 through 07/08/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/2- 7/8 Water Use	Accum'd Seasonal Water Use	7/9- 7/15 Estimated ETc	7/2- 7/8 Water Use	Accum'd Seasonal Water Use	7/19- 7/115 Estimated ETc	7/2- 7/8 Water Use	Accum'd Seasonal Water Use	7/9- 7/15 Estimated ETc
Almonds (3/5) *	1.95	24.01	2.10	2.19	25.37	1.98	2.01	24.02	1.99
Pistachio (4/16) * **	2.02	18.12	2.17	2.26	19.36	2.05	2.08	18.16	2.06
Citrus (2/1)	1.20	20.88	1.26	1.35	21.88	1.21	1.24	20.71	1.22
Raisin Grapes (3/12) (11 ft. row spacing)	1.54	14.84	1.68	1.71	15.91	1.56	1.59	14.92	1.57
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.75	15.82	1.89	1.97	16.89	1.77	1.80	15.88	1.78
Walnuts (4/5)	2.09	20.00	2.24	2.33	21.28	2.12	2.15	20.03	2.13
Stone Fruit (3/10)	1.69	16.95	2.03	1.91	18.05	1.91	1.73	17.04	1.92
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)	3.0	2.6	2.3	2.1	3.4	2.9	2.6	2.3	3.1	2.7	2.4	2.1
Pistachio (4/16)	3.1	2.7	2.4	2.1	3.5	3.0	2.7	2.4	3.2	2.8	2.4	2.2
Citrus (2/1)	1.8	1.6	1.4	1.3	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	2.4	2.1	1.8	1.6	2.6	2.3	2.0	1.8	2.4	2.1	1.9	1.7
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.7	2.3	2.1	1.8	3.0	2.6	2.3	2.1	2.8	2.4	2.1	1.9
Walnuts (4/5)	3.2	2.8	2.5	2.2	3.6	3.1	2.7	2.5	3.3	2.9	2.5	2.3
Stone Fruit (3/10)	2.6	2.3	2.0	1.8	2.9	2.5	2.2	2.0	2.7	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			
	Almonds 115 Trees/A	708	614	543	496	803	685	614	543	732	638	567
Pistachio 106 Trees/A	772	673	598	523	872	747	673	598	797	698	598	548
Citrus 110 Trees/A	444	395	346	321	518	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	115	101	86	77	125	110	96	86	115	101	91	82
Winegrapes 622 Vines/A	118	100	92	79	131	114	100	92	122	105	92	83
Walnuts 76 Trees/A	1143	1000	893	786	1286	1108	965	893	1179	1036	893	822
Stonefruit 172 Trees/A	410	363	316	284	458	395	347	316	426	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)
 07/02/21 through 07/08/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/2- 7/8 Water Use	Accum'd Seasonal Water Use	7/9- 7/15 Estimated ETc	7/2- 7/8 Water Use	Accum'd Seasonal Water Use	7/9- 7/15 Estimated ETc	7/2- 7/8 Water Use	Accum'd Seasonal Water Use	7/9- 7/15 Estimated ETc
Almonds (3/5) *	2.24	26.90	2.09	2.29	27.61	2.17	2.42	27.94	2.20
Pistachio (4/16) * **	2.31	20.90	2.16	2.36	21.03	2.24	2.50	21.48	2.27
Citrus (2/1)	1.38	23.49	1.26	1.40	24.34	1.33	1.48	24.25	1.36
Raisin Grapes (3/12) (11 ft. row spacing)	1.76	17.08	1.67	1.80	17.24	1.68	1.92	17.61	1.71
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.00	18.13	1.88	2.03	18.35	1.96	2.14	18.69	1.99
Walnuts (4/5)	2.38	22.90	2.23	2.44	23.26	2.31	2.59	23.62	2.34
Stone Fruit (3/10)	1.96	19.34	2.02	2.01	19.75	2.10	2.14	20.01	2.16
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.65			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)	3.4	3.0	2.6	2.4	3.5	3.1	2.7	2.4	3.7	3.2	2.8	2.5
Pistachio (4/16)	3.6	3.1	2.7	2.4	3.6	3.1	2.8	2.5	3.8	3.3	2.9	2.6
Citrus (2/1)	2.1	1.8	1.6	1.5	2.2	1.9	1.6	1.5	2.3	2.0	1.7	1.6
Raisin Grapes (3/12) (11 ft. row spacing)	2.7	2.3	2.1	1.9	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	3.3	2.9	2.5	2.3
Walnuts (4/5)	3.7	3.2	2.8	2.5	3.8	3.3	2.9	2.6	4.0	3.5	3.0	2.7
Stone Fruit (3/10)	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1	3.3	2.9	2.5	2.3

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	803	708	614	567	826	732	638	567	874	756	661
Pistachio 106 Trees/A	897	772	673	598	897	772	698	623	947	822	722	648
Citrus 110 Trees/A	518	444	395	370	543	469	395	370	568	494	420	395
Raisin Grapes 566 Vines/A	130	110	101	91	134	115	101	91	144	125	110	96
Winegrapes 622 Vines/A	135	118	105	92	135	118	105	92	144	127	109	100
Walnuts 76 Trees/A	1322	1143	1000	893	1358	1179	1036	929	1429	1251	1072	965
Stonefruit 172 Trees/A	474	410	363	332	489	426	379	332	521	458	395	363

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