

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

10/08/21 through 10/14/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	10/8 - 10/14 Water Use	Accum'd Seasonal Water Use	10/15 - 10/21 Estimated ETc	10/8 - 10/14 Water Use	Accum'd Seasonal Water Use	10/15 - 10/21 Estimated ETc	10/8 - 10/14 Water Use	Accum'd Seasonal Water Use	10/15 - 10/21 Estimated ETc
Almonds (3/5) *	0.93	45.80	0.70	0.87	48.62	0.67	0.69	44.94	0.67
Pistachio (4/16) * **	0.85	39.78	0.61	0.79	42.50	0.58	0.63	38.97	0.58
Citrus (2/1)	0.70	34.76	0.55	0.66	36.64	0.53	0.50	33.96	0.53
Raisin Grapes (3/12) (11 ft. row spacing)	0.85	32.16	0.63	0.80	34.38	0.60	0.61	31.47	0.60
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	0.94	35.46	0.77	0.88	37.90	0.74	0.74	34.75	0.74
Walnuts (4/5)	0.53	40.79	0.21	0.49	43.46	0.21	0.38	40.04	0.21
Stone Fruit (3/10)	0.88	39.19	0.63	0.82	41.86	0.60	0.63	38.38	0.60
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	5.62			3.95			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 >>												
Almonds (3/5)	1.4	1.2	1.1	1.0	1.3	1.2	1.0	0.9	1.1	0.9	0.8	0.7
Pistachio (4/16)	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8	1.0	0.8	0.7	0.7
Citrus (2/1)	1.1	0.9	0.8	0.7	1.0	0.9	0.8	0.7	0.8	0.7	0.6	0.5
Raisin Grapes (3/12) (11 ft. row spacing)***	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8	0.9	0.8	0.7	0.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.4	1.3	1.1	1.0	1.4	1.2	1.0	0.9	1.1	1.0	0.9	0.8
Walnuts (4/5)	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.5	0.6	0.5	0.4	0.4
Stone Fruit (3/10)	1.4	1.2	1.0	0.9	1.3	1.1	1.0	0.9	1.0	0.8	0.7	0.7

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	331	283	260	236	307	283	236	213	260	213	189
Pistachio 106 Trees/A	324	274	249	224	299	274	224	199	249	199	174	174
Citrus 110 Trees/A	272	222	197	173	247	222	197	173	197	173	148	123
Raisin Grapes 566 Vines/A	62	53	48	43	58	53	43	38	43	38	34	29
Winegrapes 622 Vines/A	61	57	48	44	61	52	44	39	48	44	39	35
Walnuts 76 Trees/A	286	250	214	214	286	250	214	179	214	179	143	143
Stonefruit 172 Trees/A	221	189	158	142	205	174	158	142	158	126	111	111

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)
 10/08/21 through 10/14/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	10/8 - 10/14 Water Use	Accum'd Seasonal Water Use	10/15- 10/21 Estimated ETc	10/8 - 10/14 Water Use	Accum'd Seasonal Water Use	10/15- 10/21 Estimated ETc	10/8 - 10/14 Water Use	Accum'd Seasonal Water Use	10/15- 10/21 Estimated ETc
Almonds (3/5) *	1.10	52.12	0.77	1.15	52.81	0.82	1.16	53.94	0.78
Pistachio (4/16) * **	0.99	45.96	0.68	1.03	46.07	0.75	1.04	47.39	0.70
Citrus (2/1)	0.83	39.52	0.59	0.85	40.49	0.68	0.87	40.90	0.63
Raisin Grapes (3/12) (11 ft. row spacing)	0.99	37.10	0.73	1.02	37.23	0.82	1.04	38.29	0.77
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.10	40.98	0.84	1.16	41.26	0.89	1.17	42.35	0.85
Walnuts (4/5)	0.60	46.82	0.24	0.62	47.05	0.28	0.63	48.15	0.27
Stone Fruit (3/10)	1.03	45.13	0.73	1.04	45.54	0.81	1.04	46.66	0.77
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			5.17			3.09		

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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	1.7	1.5	1.3	1.2	1.8	1.5	1.4	1.2	1.8	1.5	1.4	1.2
Pistachio (4/16)	1.5	1.3	1.2	1.0	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Citrus (2/1)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.2	1.0	0.9
Raisin Grapes (3/12) (11 ft. row spacing)	1.5	1.3	1.2	1.0	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.7	1.5	1.3	1.2	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.2
Walnuts (4/5)	0.9	0.8	0.7	0.6	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7
Stone Fruit (3/10)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1

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			
	401	354	307	283	425	354	331	283	425	354	331	283
Almonds 115 Trees/A	401	354	307	283	425	354	331	283	425	354	331	283
Pistachio 106 Trees/A	374	324	299	249	399	349	299	274	399	349	299	274
Citrus 110 Trees/A	321	272	247	222	321	272	247	222	321	296	247	222
Raisin Grapes 566 Vines/A	72	62	58	48	77	67	58	53	77	67	58	53
Winegrapes 622 Vines/A	74	65	57	52	79	65	61	52	79	70	61	52
Walnuts 76 Trees/A	322	286	250	214	357	286	250	250	357	286	250	250
Stonefruit 172 Trees/A	253	221	189	174	253	221	189	174	253	221	189	174

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