

WEEKLY SOIL MOISTURE LOSS IN INCHES												
(Estimated Crop Evapotranspiration or ET_c)												
04/16/21 through 04/22/21												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	4/16 - 4/22 Water Use	Accum'd Seasonal Water Use	4/23 - 4/29 Estimated ETc		4/16 - 4/22 Water Use	Accum'd Seasonal Water Use	4/23 - 4/29 Estimated ETc		4/16 - 4/22 Water Use	Accum'd Seasonal Water Use	4/23 - 4/29 Estimated ETc	
Almonds (3/5) *	1.15	5.48	1.09		1.16	5.58	1.13		1.18	5.53	1.30	
Pistachio (4/16) * **	0.50	0.50	0.60		0.50	0.50	0.60		0.52	0.52	0.68	
Citrus (2/1)	1.05	7.79	0.94		1.07	7.88	0.98		1.08	7.62	1.09	
Raisin Grapes (3/12) (11 ft. row spacing)	0.42	1.31	0.42		0.41	1.31	0.42		0.43	1.32	0.49	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.39	1.33	0.35		0.40	1.37	0.35		0.41	1.39	0.42	
Walnuts (4/5)	1.03	2.27	0.96		1.03	2.32	1.00		1.05	2.34	1.11	
Stone Fruit (3/10)	0.59	2.32	0.70		0.59	2.37	0.74		0.61	2.34	0.81	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2021)	5.54				3.48				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			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	1.8	1.5	1.4	1.2	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.2
Pistachio (4/16)	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.5
Citrus (2/1)	1.6	1.4	1.2	1.1	1.6	1.4	1.3	1.1	1.7	1.4	1.3	1.1
Raisin Grapes (3/12) (11 ft. row spacing)***	0.6	0.6	0.5	0.4	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.5
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	0.6	0.5	0.5	0.4	0.6	0.5	0.5	0.4	0.6	0.5	0.5	0.4
Walnuts (4/5)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Stone Fruit (3/10)	0.9	0.8	0.7	0.6	0.9	0.8	0.7	0.6	0.9	0.8	0.7	0.6
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	425	354	331	283	425	354	331	283	425	378	331	283
Pistachio 106 Trees/A	199	174	149	125	199	174	149	125	199	174	149	125
Citrus 110 Trees/A	395	346	296	272	395	346	321	272	420	346	321	272
Raisin Grapes 566 Vines/A	29	29	24	19	29	24	24	19	34	29	24	24
Winegrapes 622 Vines/A	26	22	22	17	26	22	22	17	26	22	22	17
Walnuts 76 Trees/A	572	500	429	393	572	500	429	393	572	500	429	393
Stonefruit 172 Trees/A	142	126	111	95	142	126	111	95	142	126	111	95
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)												
04/16/21 through 04/22/21												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	4/16 - 4/22	Accum'd	4/23 - 4/29		4/16 - 4/22	Accum'd	4/23 - 4/29		4/16 - 4/22	Accum'd	4/23 - 4/29	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/5) *	1.22	5.58	1.32		1.31	6.08	1.34		1.28	6.02	1.33	
Pistachio (4/16) * **	0.53	0.53	0.69		0.57	0.57	0.74		0.55	0.55	0.72	
Citrus (2/1)	1.15	8.40	1.13		1.20	9.08	1.19		1.19	8.81	1.17	
Raisin Grapes (3/12) (11 ft. row spacing)	0.35	0.88	0.42		0.39	0.97	0.42		0.39	0.98	0.42	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.45	1.36	0.48		0.45	1.43	0.49		0.45	1.42	0.49	
Walnuts (4/5)	1.10	2.39	1.14		1.17	2.57	1.16		1.14	2.52	1.15	
Stone Fruit (3/10)	0.63	2.39	0.83		0.68	2.67	0.87		0.66	2.56	0.86	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2021)	3.80				4.51				2.97			
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			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Pistachio (4/16)	0.8	0.7	0.6	0.6	0.9	0.8	0.7	0.6	0.8	0.7	0.6	0.6
Citrus (2/1)	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.3
Raisin Grapes (3/12) (11 ft. row spacing)	0.5	0.5	0.4	0.4	0.6	0.5	0.5	0.4	0.6	0.5	0.5	0.4
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.7	0.6	0.5	0.5	0.7	0.6	0.5	0.5	0.7	0.6	0.5	0.5
Walnuts (4/5)	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.2	1.8	1.5	1.3	1.2
Stone Fruit (3/10)	1.0	0.8	0.7	0.7	1.0	0.9	0.8	0.7	1.0	0.9	0.8	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	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	449	378	331	307	472	401	354	331	472	401	354	307
Pistachio 106 Trees/A	199	174	149	149	224	199	174	149	199	174	149	149
Citrus 110 Trees/A	444	370	346	296	444	395	346	321	444	395	346	321
Raisin Grapes 566 Vines/A	24	24	19	19	29	24	24	19	29	24	24	19
Winegrapes 622 Vines/A	31	26	22	22	31	26	22	22	31	26	22	22
Walnuts 76 Trees/A	607	536	464	429	643	572	500	429	643	536	464	429
Stonefruit 172 Trees/A	158	126	111	111	158	142	126	111	158	142	126	111
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