

WEEKLY SOIL MOISTURE LOSS IN INCHES														
(Estimated Crop Evapotranspiration or ET_C)														
04/23/21 through 04/29/21														
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove					
	4/23 - 4/29	Accum'd	4/30 - 5/6		4/23 - 4/29	Accum'd	4/30 - 5/6		4/23 - 4/29	Accum'd	4/30 - 5/6			
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated			
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc			
Almonds (3/5) *	1.15	6.65	1.20		1.14	6.75	1.20		1.00	6.56	1.26			
Pistachio (4/16) * **	0.62	1.12	0.79		0.61	1.12	0.81		0.55	1.08	0.81			
Citrus (2/1)	0.98	8.79	1.03		0.99	8.89	1.05		0.86	8.50	1.05			
Raisin Grapes (3/12) (11 ft. row spacing)	0.46	1.31	0.54		0.45	1.35	0.56		0.40	1.28	0.56			
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.47	1.78	0.54		0.48	1.80	0.56		0.42	1.75	0.56			
Walnuts (4/5)	1.00	3.28	1.17		0.98	3.32	1.19		0.87	3.23	1.19			
Stone Fruit (3/10)	0.73	3.06	0.77		0.73	3.12	0.77		0.63	2.99	0.83			
Past 7 days precipitation (inches)	0.00				0.18				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			
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	1.3	1.2		1.5	1.3	1.2	1.1
Pistachio (4/16)	1.0	0.8	0.7	0.7		0.9	0.8	0.7	0.6		0.8	0.7	0.6	0.6
Citrus (2/1)	1.5	1.3	1.2	1.0		1.5	1.3	1.2	1.0		1.3	1.1	1.0	0.9
Raisin Grapes (3/12) (11 ft. row spacing)***	0.7	0.6	0.5	0.5		0.7	0.6	0.5	0.5		0.6	0.5	0.5	0.4
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	0.7	0.6	0.6	0.5		0.7	0.6	0.6	0.5		0.6	0.6	0.5	0.4
Walnuts (4/5)	1.5	1.3	1.2	1.1		1.5	1.3	1.2	1.0		1.3	1.2	1.0	0.9
Stone Fruit (3/10)	1.1	1.0	0.9	0.8		1.1	1.0	0.9	0.8		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	425	354	331	283		425	354	307	283		354	307	283	260
Pistachio 106 Trees/A	249	199	174	174		224	199	174	149		199	174	149	149
Citrus 110 Trees/A	370	321	296	247		370	321	296	247		321	272	247	222
Raisin Grapes 566 Vines/A	34	29	24	24		34	29	24	24		29	24	24	19
Winegrapes 622 Vines/A	31	26	26	22		31	26	26	22		26	26	22	17
Walnuts 76 Trees/A	536	464	429	393		536	464	429	357		464	429	357	322
Stonefruit 172 Trees/A	174	158	142	126		174	158	142	126		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)
04/23/21 through 04/29/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	4/23 - 4/29 Water Use	Accum'd Seasonal Water Use	4/30 - 5/6 Estimated ETc	4/23 - 4/29 Water Use	Accum'd Seasonal Water Use	4/30 - 5/6 Estimated ETc	4/23 - 4/29 Water Use	Accum'd Seasonal Water Use	4/30 - 5/6 Estimated ETc
Almonds (3/5) *	1.18	6.77	1.45	1.21	7.30	1.47	1.16	7.18	1.46
Pistachio (4/16) * **	0.64	1.18	0.93	0.66	1.24	0.95	0.63	1.18	0.94
Citrus (2/1)	1.05	9.45	1.24	1.05	10.15	1.26	1.01	9.83	1.25
Raisin Grapes (3/12) (11 ft. row spacing)	0.46	1.35	0.61	0.47	1.44	0.63	0.44	1.42	0.62
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.50	1.87	0.63	0.50	1.94	0.63	0.49	1.92	0.63
Walnuts (4/5)	1.02	3.42	1.38	1.05	3.63	1.40	1.01	3.54	1.39
Stone Fruit (3/10)	0.74	3.14	0.91	0.77	3.44	0.91	0.73	3.29	0.91
Past 7 days precipitation (inches)		0.00			0.08			0.09	
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.
 ** 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)	1.8	1.6	1.4	1.2	1.9	1.6	1.4	1.3	1.8	1.5	1.4	1.2
Pistachio (4/16)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7
Citrus (2/1)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.6	1.3	1.2	1.1
Raisin Grapes (3/12) (11 ft. row spacing)	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.7	0.6	0.5	0.5
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.5
Walnuts (4/5)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.6	1.3	1.2	1.1
Stone Fruit (3/10)	1.1	1.0	0.9	0.8	1.2	1.0	0.9	0.8	1.1	1.0	0.9	0.8

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	#124 Panoche				#2 Five Points				#15 Stratford			
	425	378	331	283	449	378	331	307	425	354	331	283
Almonds 115 Trees/A	425	378	331	283	449	378	331	307	425	354	331	283
Pistachio 106 Trees/A	249	224	199	174	249	224	199	174	249	199	174	174
Citrus 110 Trees/A	395	346	296	272	395	346	296	272	395	321	296	272
Raisin Grapes 566 Vines/A	34	29	24	24	34	29	29	24	34	29	24	24
Winegrapes 622 Vines/A	35	31	26	22	35	31	26	22	35	31	26	22
Walnuts 76 Trees/A	572	500	429	393	572	500	429	393	572	464	429	393
Stonefruit 172 Trees/A	174	158	142	126	189	158	142	126	174	158	142	126

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