

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

04/09/21 through 04/15/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	4/9 - 4/15 Water Use	Accum'd Seasonal Water Use	4/16 - 4/22 Estimated ETc	4/9 - 4/15 Water Use	Accum'd Seasonal Water Use	4/16 - 4/22 Estimated ETc	4/9 - 4/15 Water Use	Accum'd Seasonal Water Use	4/16 - 4/22 Estimated ETc
Almonds (3/5) *	1.02	4.32	0.96	1.08	4.42	0.99	1.07	4.35	1.13
Pistachio (4/16) * **	0.00	0.00	0.28	0.00	0.00	0.32	0.00	0.00	0.33
Citrus (2/1)	0.96	6.73	0.88	1.01	6.81	0.91	1.00	6.54	1.04
Raisin Grapes (3/12) (11 ft. row spacing)	0.23	0.55	0.25	0.25	0.60	0.28	0.25	0.60	0.28
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.32	0.94	0.32	0.34	0.97	0.35	0.33	0.98	0.36
Walnuts (4/5)	0.14	0.23	0.53	0.18	0.27	0.54	0.17	0.25	0.61
Stone Fruit (3/10)	0.54	1.73	0.49	0.56	1.78	0.49	0.56	1.73	0.57
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			
	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)	1.6	1.4	1.2	1.1	1.7	1.4	1.3	1.1	1.6	1.4	1.3	1.1
Pistachio (4/16)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citrus (2/1)	1.5	1.3	1.1	1.0	1.6	1.3	1.2	1.1	1.5	1.3	1.2	1.1
Raisin Grapes (3/12) (11 ft. row spacing)***	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	0.5	0.4	0.4	0.3	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.3
Walnuts (4/5)	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
Stone Fruit (3/10)	0.8	0.7	0.6	0.6	0.9	0.7	0.7	0.6	0.9	0.7	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			
	378	331	283	260	401	331	307	260	378	331	307	260
Almonds 115 Trees/A	378	331	283	260	401	331	307	260	378	331	307	260
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	370	321	272	247	395	321	296	272	370	321	296	272
Raisin Grapes 566 Vines/A	19	14	14	10	19	14	14	14	19	14	14	14
Winegrapes 622 Vines/A	22	17	17	13	22	22	17	17	22	17	17	13
Walnuts 76 Trees/A	71	71	71	36	107	71	71	71	107	71	71	71
Stonefruit 172 Trees/A	126	111	95	95	142	111	111	95	142	111	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)												
04/09/21 through 04/15/21												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	4/9 - 4/15	Accum'd	4/16 - 4/22		4/9 - 4/15	Accum'd	4/16 - 4/22		4/9 - 4/15	Accum'd	4/16 - 4/22	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ET _c		Use	Water Use	ET _c		Use	Water Use	ET _c	
Almonds (3/5) *	1.09	4.36	1.14		1.17	4.77	1.17		1.16	4.74	1.17	
Pistachio (4/16) * **	0.00	0.00	0.34		0.00	0.00	0.35		0.00	0.00	0.34	
Citrus (2/1)	1.02	7.25	1.04		1.10	7.88	1.08		1.09	7.62	1.07	
Raisin Grapes (3/12) (11 ft. row spacing)	0.23	0.57	0.28		0.26	0.63	0.28		0.26	0.63	0.28	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.32	0.94	0.35		0.37	1.09	0.38		0.35	1.04	0.37	
Walnuts (4/5)	0.18	0.27	0.63		0.20	0.30	0.66		0.20	0.30	0.66	
Stone Fruit (3/10)	0.56	1.76	0.59		0.64	1.99	0.61		0.61	1.90	0.61	
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.												
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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)	1.7	1.5	1.3	1.1	1.8	1.6	1.4	1.2	1.8	1.5	1.4	1.2
Pistachio (4/16)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	1.1
Raisin Grapes (3/12) (11 ft. row spacing)	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.5	0.4	0.4	0.3	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.4
Walnuts (4/5)	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2
Stone Fruit (3/10)	0.9	0.7	0.7	0.6	1.0	0.9	0.8	0.7	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%.												
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Raisin Grapes 566 Vines/A	19	14	14	10	19	14	14	14	19	14	14	14
Winegrapes 622 Vines/A	22	17	17	13	26	22	17	17	22	22	17	17
Walnuts 76 Trees/A	107	71	71	71	107	107	71	71	107	107	71	71
Stonefruit 172 Trees/A	142	111	111	95	158	142	126	111	142	126	111	95
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