

<b>WEEKLY SOIL MOISTURE LOSS IN INCHES</b> (Estimated Crop Evapotranspiration or ET <sub>c</sub> ) 04/02/21 through 04/08/21														
<b>Crops (Leafout Date)</b>	<b>#148 Merced</b>				<b>#39 Parlier</b>				<b>#258 Lemon Cove</b>					
	4/2 - 4/8 Water Use	Accum'd Seasonal Water Use	4/9 - 4/15 Estimated ETc		4/2 - 4/8 Water Use	Accum'd Seasonal Water Use	4/9 - 4/15 Estimated ETc		4/2 - 4/8 Water Use	Accum'd Seasonal Water Use	4/9 - 4/15 Estimated ETc			
Almonds (3/5) *	0.95	3.29	0.86		0.97	3.34	0.90		0.99	3.28	0.95			
Pistachio (NA) * **	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00			
Citrus (2/1)	0.90	5.76	0.79		0.94	5.80	0.83		0.96	5.54	0.91			
Raisin Grapes (3/12) (11 ft. row spacing)	0.15	0.32	0.14		0.16	0.35	0.14		0.16	0.35	0.17			
Winegrapes (3/12 ) (10 ft. spacing on California Sprawl Trellis)	0.23	0.62	0.21		0.24	0.63	0.21		0.26	0.65	0.27			
Walnuts (4/5)	0.08	0.08	0.14		0.09	0.09	0.14		0.08	0.08	0.14			
Stone Fruit (3/10 )	0.39	1.19	0.44		0.40	1.22	0.48		0.40	1.17	0.50			
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00					
<b>Accumulated precipitation (inches) (1/1/2021)</b>	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.														
<b>PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup></b>														
<b>Crops</b>	<b>#148 Merced</b>					<b>#39 Parlier</b>					<b>#258 Lemon Cove</b>			
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	1.5	1.3	1.1	1.0		1.5	1.3	1.1	1.0		1.5	1.3	1.2	1.0
Pistachio (NA)	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)	1.4	1.2	1.1	0.9		1.4	1.3	1.1	1.0		1.5	1.3	1.1	1.0
Raisin Grapes (3/12) (11 ft. row spacing)***	0.2	0.2	0.2	0.2		0.2	0.2	0.2	0.2		0.2	0.2	0.2	0.2
Winegrapes (3/12 ) (10 ft. spacing on California Sprawl Trellis) ***	0.4	0.3	0.3	0.2		0.4	0.3	0.3	0.3		0.4	0.3	0.3	0.3
Walnuts (4/5)	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1
Stone Fruit (3/10 )	0.6	0.5	0.5	0.4		0.6	0.5	0.5	0.4		0.6	0.5	0.5	0.4
<sup>1</sup> 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%.														
<b>PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE</b>														
<b>Crops</b>	<b>#148 Merced</b>					<b>#39 Parlier</b>					<b>#258 Lemon Cove</b>			
Almonds 115 Trees/A	354	307	260	236		354	307	260	236		354	307	283	236
Pistachio 106 Trees/A	0	0	0	0		0	0	0	0		0	0	0	0
Citrus 110 Trees/A	346	296	272	222		346	321	272	247		370	321	272	247
Raisin Grapes 566 Vines/A	10	10	10	10		10	10	10	10		10	10	10	10
Winegrapes 622 Vines/A	17	13	13	9		17	13	13	13		17	13	13	13
Walnuts 76 Trees/A	36	36	36	36		36	36	36	36		36	36	36	36
Stonefruit 172 Trees/A	95	79	79	63		95	79	79	63		95	79	79	63
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<b>(Estimated Crop Evapotranspiration or ET<sub>c</sub>)</b>												
<b>04/02/21 through 04/08/21</b>												
<b>Crops (Leafout Date)</b>	<b>#124 Panoche</b>				<b>#2 Five Points</b>				<b>#15 Stratford</b>			
	4/2 - 4/8	Accum'd	4/9 - 4/15		4/2 - 4/8	Accum'd	4/9 - 4/15		4/2 - 4/8	Accum'd	4/9 - 4/15	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/5) *	0.95	3.27	0.99		1.04	3.60	1.33		1.04	3.58	1.05	
Pistachio (NA) * **	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	
Citrus (2/1)	0.94	6.23	0.93		1.01	6.78	0.99		0.99	6.53	0.98	
Raisin Grapes (3/12 ) (11 ft. row spacing)	0.15	0.34	0.16		0.16	0.37	0.21		0.16	0.37	0.20	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.23	0.62	0.28		0.28	0.72	0.28		0.27	0.69	0.28	
Walnuts (4/5)	0.09	0.09	0.14		0.10	0.10	0.15		0.10	0.10	0.15	
Stone Fruit (3/10)	0.38	1.20	0.51		0.42	1.35	0.56		0.42	1.29	0.55	
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00			
<b>Accumulated precipitation (inches) (1/1/2021)</b>	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.												
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System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Pistachio (NA)	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)	1.4	1.3	1.1	1.0	1.6	1.3	1.2	1.1	1.5	1.3	1.2	1.0
Raisin Grapes (3/12 ) (11 ft. row spacing)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.4	0.3	0.3	0.2	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3
Walnuts (4/5)	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Stone Fruit (3/10)	0.6	0.5	0.4	0.4	0.6	0.6	0.5	0.4	0.6	0.6	0.5	0.4
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Walnuts 76 Trees/A	36	36	36	36	71	36	36	36	71	36	36	36
Stonefruit 172 Trees/A	95	79	63	63	95	95	79	63	95	95	79	63

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