



WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _c) 09/04/20 through 09/10/20												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	9/4 - 9/10 Water Use	Accum'd Seasonal Water Use	9/11 - 9/17 Estimated ETc		9/4 - 9/10 Water Use	Accum'd Seasonal Water Use	9/11 - 9/17 Estimated ETc		9/4 - 9/10 Water Use	Accum'd Seasonal Water Use	9/11 - 9/17 Estimated ETc	
Almonds (3/5) *	1.46	39.43	1.39		1.37	40.54	1.31		1.38	37.93	1.31	
Pistachio (4/13) * **	1.50	32.53	1.46		1.42	33.69	1.38		1.45	31.79	1.38	
Citrus (2/1)	0.98	30.75	1.03		0.92	31.05	0.95		0.94	29.20	0.95	
Raisin Grapes (3/16) (11 ft. row spacing)	1.15	26.67	1.11		1.08	27.55	1.03		1.11	26.07	1.03	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.30	29.38	1.25		1.22	30.38	1.17		1.24	28.59	1.17	
Walnuts (4/8)	1.52	32.61	1.44		1.43	33.77	1.31		1.45	31.80	1.31	
Stone Fruit (3/10)	1.50	32.98	1.46		1.42	34.12	1.38		1.45	32.01	1.38	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2020)	5.05				4.80				5.61			
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)	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.5
Pistachio (4/13)	2.3	2.0	1.8	1.6	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Citrus (2/1)	1.5	1.3	1.2	1.0	1.4	1.2	1.1	1.0	1.4	1.3	1.1	1.0
Raisin Grapes (3/16) (11 ft. row spacing)***	1.8	1.5	1.4	1.2	1.7	1.4	1.3	1.1	1.7	1.5	1.3	1.2
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.0	1.7	1.5	1.4	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3
Walnuts (4/8)	2.3	2.0	1.8	1.6	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Stone Fruit (3/10)	2.3	2.0	1.8	1.6	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
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	519	449	401	354	496	425	378	331	496	425	378	354
Pistachio 106 Trees/A	573	498	448	399	548	473	424	374	548	473	424	374
Citrus 110 Trees/A	370	321	296	247	346	296	272	247	346	321	272	247
Raisin Grapes 566 Vines/A	86	72	67	58	82	67	62	53	82	72	62	58
Winegrapes 622 Vines/A	87	74	65	61	83	70	61	57	83	74	65	57
Walnuts 76 Trees/A	822	715	643	572	786	679	607	536	786	679	607	536
Stonefruit 172 Trees/A	363	316	284	253	347	300	268	237	347	300	268	237

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) 09/04/20 through 09/10/20												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	9/4- 9/10 Water Use	Accum'd Seasonal Water Use	9/11- 9/17 Estimated ETc		9/4- 9/10 Water Use	Accum'd Seasonal Water Use	9/11- 9/17 Estimated ETc		9/4- 9/10 Water Use	Accum'd Seasonal Water Use	9/11- 9/17 Estimated ETc	
Almonds (3/5) *	1.71	42.92	1.41		1.88	43.87	1.54		1.70	44.61	1.50	
Pistachio (4/13) * **	1.75	35.75	1.48		1.95	36.12	1.61		1.75	36.74	1.57	
Citrus (2/1)	1.19	32.98	1.00		1.31	34.02	1.08		1.19	34.37	1.06	
Raisin Grapes (3/16) (11 ft. row spacing)	1.33	28.76	1.13		1.48	29.08	1.25		1.33	29.65	1.22	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.52	31.76	1.27		1.69	32.13	1.40		1.52	32.63	1.36	
Walnuts (4/8)	1.76	35.84	1.48		1.96	36.44	1.61		1.77	37.04	1.57	
Stone Fruit (3/10)	1.75	36.28	1.48		1.95	36.83	1.61		1.75	37.45	1.57	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2020)	2.68				4.05				3.13			

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 >>												
Almonds (3/5)	2.6	2.3	2.0	1.8	2.9	2.5	2.2	2.0	2.6	2.3	2.0	1.8
Pistachio (4/13)	2.7	2.3	2.1	1.8	3.0	2.6	2.3	2.1	2.7	2.3	2.1	1.8
Citrus (2/1)	1.8	1.6	1.4	1.3	2.0	1.7	1.5	1.4	1.8	1.6	1.4	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.0	1.8	1.6	1.4	2.3	2.0	1.7	1.6	2.0	1.8	1.6	1.4
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.3	2.0	1.8	1.6	2.6	2.3	2.0	1.8	2.3	2.0	1.8	1.6
Walnuts (4/8)	2.7	2.3	2.1	1.9	3.0	2.6	2.3	2.1	2.7	2.4	2.1	1.9
Stone Fruit (3/10)	2.7	2.3	2.1	1.8	3.0	2.6	2.3	2.1	2.7	2.3	2.1	1.8

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			
	Almonds 115 Trees/A	614	543	472	425	685	590	519	472	614	543	472
Pistachio 106 Trees/A	673	573	523	448	747	648	573	523	673	573	523	448
Citrus 110 Trees/A	444	395	346	321	494	420	370	346	444	395	346	321
Raisin Grapes 566 Vines/A	96	86	77	67	110	96	82	77	96	86	77	67
Winegrapes 622 Vines/A	100	87	79	70	114	100	87	79	100	87	79	70
Walnuts 76 Trees/A	965	822	750	679	1072	929	822	750	965	857	750	679
Stonefruit 172 Trees/A	426	363	332	284	474	410	363	332	426	363	332	284

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