



WEEKLY SOIL MOISTURE LOSS IN INCHES
 (Estimated Crop Evapotranspiration or ET_c)
 09/11/20 through 09/17/20

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	9/11 - 9/17 Water Use	Accum'd Seasonal Water Use	9/18 - 9/24 Estimated ETc		9/11 - 9/17 Water Use	Accum'd Seasonal Water Use	9/18 - 9/24 Estimated ETc		9/11 - 9/17 Water Use	Accum'd Seasonal Water Use	9/18 - 9/24 Estimated ETc
Almonds (3/5) *	0.99	40.33	1.28		0.92	41.34	1.21		0.92	38.76	1.21
Pistachio (4/13) * **	1.01	33.45	1.26		0.96	34.53	1.19		0.94	32.63	1.19
Citrus (2/1)	0.71	31.40	0.82		0.67	31.64	0.75		0.66	29.79	0.75
Raisin Grapes (3/16) (11 ft. row spacing)	0.79	27.40	1.01		0.73	28.19	0.94		0.72	26.71	0.94
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.87	30.18	1.15		0.83	31.11	1.08		0.83	29.34	1.08
Walnuts (4/8)	1.00	33.53	1.23		0.94	34.60	1.19		0.93	32.63	1.19
Stone Fruit (3/10)	1.01	33.90	1.36		0.96	34.96	1.29		0.94	32.85	1.29
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)	1.5	1.3	1.2	1.0		1.4	1.2	1.1	1.0		1.4	1.2	1.1	1.0
Pistachio (4/13)	1.6	1.3	1.2	1.1		1.5	1.3	1.1	1.0		1.4	1.3	1.1	1.0
Citrus (2/1)	1.1	0.9	0.8	0.7		1.0	0.9	0.8	0.7		1.0	0.9	0.8	0.7
Raisin Grapes (3/16) (11 ft. row spacing)***	1.2	1.1	0.9	0.8		1.1	1.0	0.9	0.8		1.1	1.0	0.8	0.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.3	1.2	1.0	0.9		1.3	1.1	1.0	0.9		1.3	1.1	1.0	0.9
Walnuts (4/8)	1.5	1.3	1.2	1.1		1.4	1.3	1.1	1.0		1.4	1.2	1.1	1.0
Stone Fruit (3/10)	1.6	1.3	1.2	1.1		1.5	1.3	1.1	1.0		1.4	1.3	1.1	1.0

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	354	307	283	236		331	283	260	236		331	283	260	236
Pistachio 106 Trees/A	399	324	299	274		374	324	274	249		349	324	274	249
Citrus 110 Trees/A	272	222	197	173		247	222	197	173		247	222	197	173
Raisin Grapes 566 Vines/A	58	53	43	38		53	48	43	38		53	48	38	38
Winegrapes 622 Vines/A	57	52	44	39		57	48	44	39		57	48	44	39
Walnuts 76 Trees/A	536	464	429	393		500	464	393	357		500	429	393	357
Stonefruit 172 Trees/A	253	205	189	174		237	205	174	158		221	205	174	158

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) 09/11/20 through 09/17/20											
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	9/11- 9/17 Water Use	Accum'd Seasonal Water Use	9/18 - 9/24 Estimated ETc		9/11- 9/17 Water Use	Accum'd Seasonal Water Use	9/18- 9/24 Estimated ETc		9/11- 9/17 Water Use	Accum'd Seasonal Water Use	9/18- 9/24 Estimated ETc
Almonds (3/5) *	1.06	43.87	1.31		1.21	44.95	1.44		1.20	45.68	1.39
Pistachio (4/13) * **	1.11	36.74	1.29		1.26	37.24	1.42		1.25	37.85	1.37
Citrus (2/1)	0.74	33.63	0.83		0.83	34.75	0.91		0.83	35.10	0.86
Raisin Grapes (3/16) (11 ft. row spacing)	0.82	29.49	1.04		0.95	29.93	1.17		0.94	30.49	1.12
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.95	32.61	1.18		1.07	33.08	1.31		1.06	33.57	1.26
Walnuts (4/8)	1.07	36.79	1.26		1.23	37.53	1.43		1.20	38.10	1.38
Stone Fruit (3/10)	1.11	37.27	1.39		1.26	37.95	1.52		1.25	38.56	1.47
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

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** 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)	1.6	1.4	1.2	1.1		1.9	1.6	1.4	1.3		1.8	1.6	1.4	1.3
Pistachio (4/13)	1.7	1.5	1.3	1.2		1.9	1.7	1.5	1.3		1.9	1.7	1.5	1.3
Citrus (2/1)	1.1	1.0	0.9	0.8		1.3	1.1	1.0	0.9		1.3	1.1	1.0	0.9
Raisin Grapes (3/16) (11 ft. row spacing)	1.3	1.1	1.0	0.9		1.5	1.3	1.1	1.0		1.4	1.3	1.1	1.0
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.5	1.3	1.1	1.0		1.6	1.4	1.3	1.1		1.6	1.4	1.2	1.1
Walnuts (4/8)	1.6	1.4	1.3	1.1		1.9	1.6	1.4	1.3		1.8	1.6	1.4	1.3
Stone Fruit (3/10)	1.7	1.5	1.3	1.2		1.9	1.7	1.5	1.3		1.9	1.7	1.5	1.3

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			
	378	331	283	260		449	378	331	307		425	378	331	307
Almonds 115 Trees/A	378	331	283	260		449	378	331	307		425	378	331	307
Pistachio 106 Trees/A	424	374	324	299		473	424	374	324		473	424	374	324
Citrus 110 Trees/A	272	247	222	197		321	272	247	222		321	272	247	222
Raisin Grapes 566 Vines/A	62	53	48	43		72	62	53	48		67	62	53	48
Winegrapes 622 Vines/A	65	57	48	44		70	61	57	48		70	61	52	48
Walnuts 76 Trees/A	572	500	464	393		679	572	500	464		643	572	500	464
Stonefruit 172 Trees/A	268	237	205	189		300	268	237	205		300	268	237	205

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