

WEEKLY SOIL MOISTURE LOSS IN INCHES												
(Estimated Crop Evapotranspiration or ET_c)												
09/13/19 through 09/19/19												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	9/13- 9/19 Water Use	Accum'd Seasonal Water Use	9/20- 9/26 Estimated ETc		9/13- 9/19 Water Use	Accum'd Seasonal Water Use	9/20- 9/26 Estimated ETc		9/13- 9/19 Water Use	Accum'd Seasonal Water Use	9/20- 9/26 Estimated ETc	
Almonds (3/10) *	1.24	38.66	1.26		1.43	41.63	1.18		1.33	39.01	1.19	
Pistachio (4/19) * **	1.30	32.48	1.23		1.50	34.92	1.15		1.40	32.75	1.16	
Citrus (2/1)	0.79	29.36	0.78		0.91	31.69	0.75		0.84	29.52	0.76	
Raisin Grapes (3/16) (11 ft. row spacing)	0.97	27.60	0.98		1.15	29.57	0.91		1.06	27.75	0.92	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.11	30.37	1.12		1.29	32.78	1.04		1.19	30.65	1.05	
Walnuts (4/15)	1.27	31.18	1.26		1.49	33.63	1.18		1.37	31.37	1.19	
Stone Fruit (3/20)	1.30	31.33	1.33		1.50	33.78	1.25		1.40	31.46	1.26	
Past 7 days precipitation (inches)	0.07				0.00				0.00			
Accumulated precipitation (inches) (1/1/2018)	11.15				7.89				10.81			
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. *** CIMIS station #188 Madera II has been taken out of service due to a conversion of the pasture to permanent crops. For the remainder of 2018 irrigation season Historical Average ET _o will be used for the weekly report.												
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 (3/10)	1.9	1.7	1.5	1.3	2.2	1.9	1.7	1.5	2.0	1.8	1.6	1.4
Pistachio (4/19)	2.0	1.7	1.5	1.4	2.3	2.0	1.8	1.6	2.2	1.9	1.6	1.5
Citrus (2/1)	1.2	1.1	0.9	0.8	1.4	1.2	1.1	1.0	1.3	1.1	1.0	0.9
Raisin Grapes (3/16) (11 ft. row spacing)	1.5	1.3	1.1	1.0	1.8	1.5	1.4	1.2	1.6	1.4	1.2	1.1
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.7	1.5	1.3	1.2	2.0	1.7	1.5	1.4	1.8	1.6	1.4	1.3
Walnuts (4/15)	2.0	1.7	1.5	1.3	2.3	2.0	1.8	1.6	2.1	1.8	1.6	1.4
Stone Fruit (3/20)	2.0	1.7	1.5	1.4	2.3	2.0	1.8	1.6	2.2	1.9	1.6	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	449	401	354	307	519	449	401	354	472	425	378	331
Pistachio 106 Trees/A	498	424	374	349	573	498	448	399	548	473	399	374
Citrus 110 Trees/A	296	272	222	197	346	296	272	247	321	272	247	222
Raisin Grapes 566 Vines/A	72	62	53	48	86	72	67	58	77	67	58	53
Winegrapes 622 Vines/A	74	65	57	52	87	74	65	61	79	70	61	57
Walnuts 76 Trees/A	715	607	536	464	822	715	643	572	750	643	572	500
Stonefruit 172 Trees/A	316	268	237	221	363	316	284	253	347	300	253	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)														
09/13/19 through 09/19/19														
Crops (Leafout Date)	#124 Panoche					#2 Five Points					#15 Stratford			
	9/13- 9/19 Water Use	Accum'd Seasonal Water Use	9/20- 9/26 Estimated ETc		9/13- 9/19 Water Use	Accum'd Seasonal Water Use	9/20- 9/26 Estimated ETc		9/13- 9/19 Water Use	Accum'd Seasonal Water Use	9/20- 9/26 Estimated ETc			
Almonds (3/10) *	1.34	44.27	1.31		1.57	45.27	1.44		1.55	42.54	1.38			
Pistachio (4/19) * **	1.40	37.25	1.28		1.62	37.58	1.41		1.60	35.33	1.35			
Citrus (2/1)	0.94	33.46	0.82		1.10	34.76	0.90		1.09	32.37	0.84			
Raisin Grapes (3/16) (11 ft. row spacing)	1.07	31.72	1.03		1.24	31.93	1.16		1.22	29.98	1.10			
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.21	34.96	1.17		1.41	35.46	1.30		1.39	33.21	1.24			
Walnuts (4/15)	1.39	35.77	1.31		1.63	36.27	1.51		1.61	33.96	1.43			
Stone Fruit (3/20)	1.40	35.94	1.38		1.62	36.66	1.51		1.60	34.36	1.45			
Past 7 days precipitation (inches)		0.02				0.10				0.00				
Accumulated precipitation (inches) (1/1/2019)		4.82				7.52				7.08				
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			
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/10)	2.1	1.8	1.6	1.4		2.4	2.1	1.8	1.7		2.4	2.1	1.8	1.6
Pistachio (4/19)	2.2	1.9	1.6	1.5		2.5	2.2	1.9	1.7		2.5	2.1	1.9	1.7
Citrus (2/1)	1.4	1.3	1.1	1.0		1.7	1.5	1.3	1.2		1.7	1.5	1.3	1.1
Raisin Grapes (3/16) (11 ft. row spacing)	1.6	1.4	1.3	1.1		1.9	1.7	1.5	1.3		1.9	1.6	1.4	1.3
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.9	1.6	1.4	1.3		2.2	1.9	1.7	1.5		2.1	1.9	1.6	1.5
Walnuts (4/15)	2.1	1.9	1.6	1.5		2.5	2.2	1.9	1.7		2.5	2.1	1.9	1.7
Stone Fruit (3/20)	2.2	1.9	1.6	1.5		2.5	2.2	1.9	1.7		2.5	2.1	1.9	1.7
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	#124 Panoche					#2 Five Points					#15 Stratford			
Almonds 115 Trees/A	496	425	378	331		567	496	425	401		567	496	425	378
Pistachio 106 Trees/A	548	473	399	374		623	548	473	424		623	523	473	424
Citrus 110 Trees/A	346	321	272	247		420	370	321	296		420	370	321	272
Raisin Grapes 566 Vines/A	77	67	62	53		91	82	72	62		91	77	67	62
Winegrapes 622 Vines/A	83	70	61	57		96	83	74	65		92	83	70	65
Walnuts 76 Trees/A	750	679	572	536		893	786	679	607		893	750	679	607
Stonefruit 172 Trees/A	347	300	253	237		395	347	300	268		395	332	300	268

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