

WEEKLY SOIL MOISTURE LOSS IN INCHES												
(Estimated Crop Evapotranspiration or ET _C)												
05/29/20 through 06/04/20												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	5/29 - 6/4 Water Use	Accum'd Seasonal Water Use	6/5 - 6/11 Estimated ETc		5/29 - 6/4 Water Use	Accum'd Seasonal Water Use	6/5 - 6/11 Estimated ETc		5/29 - 6/4 Water Use	Accum'd Seasonal Water Use	6/5 - 6/11 Estimated ETc	
Almonds (3/5) *	1.68	13.75	1.76		1.68	13.71	1.76		1.56	12.71	1.76	
Pistachio (4/13) * **	1.47	5.94	1.76		1.47	5.97	1.76		1.37	5.67	1.72	
Citrus (2/1)	1.19	14.69	1.20		1.19	14.31	1.19		1.13	13.46	1.19	
Raisin Grapes (3/16) (11 ft. row spacing)	1.39	6.21	1.47		1.38	6.27	1.47		1.30	5.99	1.47	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.39	6.48	1.54		1.39	6.46	1.52		1.29	6.15	1.48	
Walnuts (4/8)	1.38	7.66	1.52		1.39	7.69	1.50		1.30	7.32	1.50	
Stone Fruit (3/10)	1.37	8.60	1.44		1.37	8.59	1.44		1.29	8.04	1.44	
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			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8	2.4	2.1	1.8	1.6
Pistachio (4/13)	2.3	2.0	1.7	1.5	2.3	2.0	1.7	1.5	2.1	1.8	1.6	1.4
Citrus (2/1)	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.3	1.7	1.5	1.3	1.2
Raisin Grapes (3/16) (11 ft. row spacing)***	2.1	1.9	1.6	1.5	2.1	1.8	1.6	1.5	2.0	1.7	1.5	1.4
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.1	1.9	1.6	1.5	2.1	1.9	1.6	1.5	2.0	1.7	1.5	1.4
Walnuts (4/8)	2.1	1.8	1.6	1.5	2.1	1.9	1.6	1.5	2.0	1.7	1.5	1.4
Stone Fruit (3/10)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4
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	614	519	472	425	614	519	472	425	567	496	425	378
Pistachio 106 Trees/A	573	498	424	374	573	498	424	374	523	448	399	349
Citrus 110 Trees/A	444	395	346	321	444	395	346	321	420	370	321	296
Raisin Grapes 566 Vines/A	101	91	77	72	101	86	77	72	96	82	72	67
Winegrapes 622 Vines/A	92	83	70	65	92	83	70	65	87	74	65	61
Walnuts 76 Trees/A	750	643	572	536	750	679	572	536	715	607	536	500
Stonefruit 172 Trees/A	332	284	253	221	332	284	253	221	316	268	237	221
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.												

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