

05/01/20 through 05/07/20

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	5/1 - 5/7 Water Use	Accum'd Seasonal Water Use	5/8 - 5/14 Estimated ETc		5/1 - 5/7 Water Use	Accum'd Seasonal Water Use	5/8 - 5/14 Estimated ETc		5/1 - 5/7 Water Use	Accum'd Seasonal Water Use	5/8 - 5/14 Estimated ETc	
Almonds (3/5) *	1.50	7.34	1.34		1.47	7.17	1.33		1.43	6.37	1.29	
Pistachio (4/13) * **	0.67	1.44	0.73		0.66	1.42	0.72		0.63	1.28	0.71	
Citrus (2/1)	1.26	9.87	1.06		1.23	9.39	1.05		1.20	8.65	1.05	
Raisin Grapes (3/16) (11 ft. row spacing)	0.68	1.49	0.64		0.66	1.49	0.63		0.63	1.33	0.63	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.69	1.99	0.64		0.68	1.91	0.63		0.66	1.76	0.63	
Walnuts (4/8)	1.02	2.53	1.05		1.00	2.45	1.04		0.98	2.25	1.00	
Stone Fruit (3/10)	0.95	3.71	0.98		0.93	3.60	0.98		0.91	3.21	0.94	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2020)	4.65				4.48				5.24			

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)	2.3	2.0	1.8	1.6	2.3	2.0	1.7	1.5	2.2	1.9	1.7	1.5
Pistachio (4/13)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7
Citrus (2/1)	1.9	1.7	1.5	1.3	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.3
Raisin Grapes (3/16) (11 ft. row spacing)***	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ****	1.1	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Walnuts (4/8)	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.1	1.5	1.3	1.2	1.0
Stone Fruit (3/10)	1.5	1.3	1.1	1.0	1.4	1.2	1.1	1.0	1.4	1.2	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	543	472	425	378	543	472	401	354	519	449	401	354
Pistachio 106 Trees/A	249	224	199	174	249	224	199	174	249	199	174	174
Citrus 110 Trees/A	469	420	370	321	469	395	346	321	444	395	346	321
Raisin Grapes 566 Vines/A	48	43	38	34	48	43	38	34	48	38	34	34
Winegrapes 622 Vines/A	48	39	35	31	44	39	35	31	44	39	35	31
Walnuts 76 Trees/A	572	500	429	393	536	464	429	393	536	464	429	357
Stonefruit 172 Trees/A	237	205	174	158	221	189	174	158	221	189	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) 05/01/20 through 05/07/20												
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	5/1 - 5/7 Water Use	Accum'd Seasonal Water Use	5/8 - 5/14 Estimated ETc		5/1 - 5/7 Water Use	Accum'd Seasonal Water Use	5/8 - 5/14 Estimated ETc		5/1 - 5/7 Water Use	Accum'd Seasonal Water Use	5/8 - 5/14 Estimated ETc	
Almonds (3/5) *	1.56	7.56	1.55		1.72	8.14	1.55		1.63	8.04	1.55	
Pistachio (4/13) * **	0.70	1.51	0.85		0.76	1.62	0.85		0.74	1.60	0.85	
Citrus (2/1)	1.31	10.02	1.26		1.43	10.73	1.26		1.36	10.50	1.26	
Raisin Grapes (3/16) (11 ft. row spacing)	0.59	1.40	0.64		0.65	1.50	0.65		0.65	1.53	0.65	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.65	1.96	0.70		0.71	2.08	0.70		0.66	1.98	0.70	
Walnuts (4/8)	1.08	2.67	1.20		1.17	2.87	1.21		1.11	2.80	1.21	
Stone Fruit (3/10)	0.99	3.86	1.11		1.08	4.10	1.11		1.02	4.06	1.11	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2019)	2.39				4.01				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.												
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Crops	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.4	2.1	1.8	1.6	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7
Pistachio (4/13)	1.1	0.9	0.8	0.7	1.2	1.0	0.9	0.8	1.1	1.0	0.9	0.8
Citrus (2/1)	2.0	1.7	1.5	1.4	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	0.9	0.8	0.7	0.6	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Walnuts (4/8)	1.7	1.4	1.3	1.1	1.8	1.6	1.4	1.2	1.7	1.5	1.3	1.2
Stone Fruit (3/10)	1.5	1.3	1.2	1.0	1.7	1.4	1.3	1.1	1.6	1.4	1.2	1.1
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