

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

(Estimated Crop Evapotranspiration or ET<sub>c</sub>)

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 <sup>1</sup>**

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)	2.3	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

<sup>1</sup> 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			
	543	472	425	378		543	472	401	354		519	449	401	354
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<sub>c</sub>)

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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	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)	2.4	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

<sup>1</sup> 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%.

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	Almonds 115 Trees/A	567	496	425	378	614	543	472	425	590	519	449
Pistachio 106 Trees/A	274	224	199	174	299	249	224	199	274	249	224	199
Citrus 110 Trees/A	494	420	370	346	543	469	420	370	518	444	395	346
Raisin Grapes 566 Vines/A	43	38	34	29	48	43	38	34	48	43	38	34
Winegrapes 622 Vines/A	44	39	35	31	44	39	35	31	44	39	35	31
Walnuts 76 Trees/A	607	500	464	393	643	572	500	429	607	536	464	429
Stonefruit 172 Trees/A	237	205	189	158	268	221	205	174	253	221	189	174

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