



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

04/26/19 through 05/02/19

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	4/26 - 5/2 Water Use	Accum'd Seasonal Water Use	5/3 - 5/9 Estimated ETc		4/26 - 5/2 Water Use	Accum'd Seasonal Water Use	5/3 - 5/9 Estimated ETc		4/26 - 5/2 Water Use	Accum'd Seasonal Water Use	5/3 - 5/9 Estimated ETc
Almonds (3/10) *	1.13	5.76	1.18		1.29	6.37	1.19		1.21	6.00	1.17
Pistachio (4/19) * **	0.14	0.24	0.28		0.16	0.28	0.28		0.14	0.48	0.28
Citrus (2/1)	1.00	7.74	1.04		1.12	8.44	1.05		1.07	7.82	1.02
Raisin Grapes (3/16) (11 ft. row spacing)	0.60	1.53	0.70		0.66	1.63	0.70		0.64	1.56	0.70
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.59	1.85	0.69		0.67	2.07	0.70		0.63	1.97	0.67
Walnuts (4/15)	0.59	0.84	0.77		0.66	0.95	0.77		0.63	0.89	0.77
Stone Fruit (3/20)	0.56	2.18	0.71		0.64	2.44	0.71		0.59	2.24	0.71
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2019)	8.82				5.78				8.68		

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 (3/10)	1.7	1.5	1.3	1.2		2.0	1.7	1.5	1.4		1.9	1.6	1.4	1.3
Pistachio (4/19)	0.2	0.2	0.2	0.1		0.2	0.2	0.2	0.1		0.2	0.2	0.2	0.1
Citrus (2/1)	1.5	1.3	1.2	1.1		1.7	1.5	1.3	1.2		1.6	1.4	1.3	1.1
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)	0.9	0.8	0.7	0.6		1.0	0.9	0.8	0.7		1.0	0.8	0.7	0.7
Walnuts (4/15)	0.9	0.8	0.7	0.6		1.0	0.9	0.8	0.7		1.0	0.8	0.7	0.7
Stone Fruit (3/20)	0.9	0.7	0.7	0.6		1.0	0.9	0.8	0.7		0.9	0.8	0.7	0.6

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			
	401	354	307	283		472	401	354	331		449	378	331	307
Almonds 115 Trees/A	401	354	307	283		472	401	354	331		449	378	331	307
Pistachio 106 Trees/A	50	50	50	25		50	50	50	25		50	50	50	25
Citrus 110 Trees/A	370	321	296	272		420	370	321	296		395	346	321	272
Raisin Grapes 566 Vines/A	43	38	34	29		48	43	38	34		48	43	38	34
Winegrapes 622 Vines/A	39	35	31	26		44	39	35	31		44	35	31	31
Walnuts 76 Trees/A	322	286	250	214		357	322	286	250		357	286	250	250
Stonefruit 172 Trees/A	142	111	111	95		158	142	126	111		142	126	111	95

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)

04/19/19 through 04/25/19

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	4/19 - 4/25 Water Use	Accum'd Seasonal Water Use	4/26 - 5/2 Estimated ETc	4/19 - 4/25 Water Use	Accum'd Seasonal Water Use	4/26 - 5/2 Estimated ETc	4/19 - 4/25 Water Use	Accum'd Seasonal Water Use	4/26 - 5/2 Estimated ETc
Almonds (3/10) *	1.24	5.22	1.29	1.30	5.97	1.31	1.24	5.52	1.29
Pistachio (4/19) * **	0.12	0.12	0.14	0.14	0.14	0.15	0.12	0.12	0.14
Citrus (2/1)	1.16	7.45	1.13	1.21	8.62	1.19	1.16	7.71	1.16
Raisin Grapes (3/16) (11 ft. row spacing) ***	0.47	1.08	0.71	0.49	1.20	0.74	0.46	1.12	0.73
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.53	1.51	0.69	0.55	1.72	0.73	0.52	1.55	0.71
Walnuts (4/15)	0.20	0.29	0.68	0.21	0.32	0.71	0.20	0.29	0.70
Stone Fruit (3/20)	0.62	1.84	0.63	0.68	2.09	0.64	0.62	1.97	0.63
Past 7 days precipitation (inches)	0.00			0.07			0.00		
Accumulated precipitation (inches) (1/1/2019)	4.03			5.52			4.14		

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.

*** Raisin Grapes and Winegrapes Irrigation should hold off until midday leaf water potential drops to -1.0 MPa, before that soil moisture reservoir is sufficient to supply the vine water demand. Update will be sent shortly once the county wide leaf water potential reaches approximate -1.0 MPa. Growers should adjust the irrigation start date based on the individual vineyard location and soil type.

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 (3/10)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	1.9	1.7	1.5	1.3
Pistachio (4/19)	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1
Citrus (2/1)	1.8	1.5	1.4	1.2	1.9	1.6	1.4	1.3	1.8	1.5	1.4	1.2
Raisin Grapes (3/16) (11 ft. row spacing) ***	0.7	0.6	0.6	0.5	0.8	0.7	0.6	0.5	0.7	0.6	0.5	0.5
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.5
Walnuts (4/15)	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2
Stone Fruit (3/20)	1.0	0.8	0.7	0.7	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7

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			
	449	401	354	307	472	401	354	331	449	401	354	307
Almonds 115 Trees/A	449	401	354	307	472	401	354	331	449	401	354	307
Pistachio 106 Trees/A	50	50	25	25	50	50	50	25	50	50	25	25
Citrus 110 Trees/A	444	370	346	296	469	395	346	321	444	370	346	296
Raisin Grapes 566 Vines/A	34	29	29	24	38	34	29	24	34	29	24	24
Winegrapes 622 Vines/A	35	31	26	26	35	31	26	26	35	31	26	22
Walnuts 76 Trees/A	107	107	71	71	107	107	71	71	107	107	71	71
Stonefruit 172 Trees/A	158	126	111	111	158	142	126	111	158	126	111	111

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