

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
08/30/19 through 09/05/19

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	8/30- 9/5 Water Use	Accum'd Seasonal Water Use	9/6- 9/12 Estimated ETc		8/30- 9/5 Water Use	Accum'd Seasonal Water Use	9/6- 9/12 Estimated ETc		8/30- 9/5 Water Use	Accum'd Seasonal Water Use	9/6- 9/12 Estimated ETc
Almonds (3/10) *	1.66	36.01	1.48		1.73	38.62	1.38		1.53	36.28	1.39
Pistachio (4/19) * **	1.67	29.70	1.55		1.74	31.80	1.45		1.56	29.88	1.46
Citrus (2/1)	1.11	27.53	1.10		1.18	29.63	1.02		1.03	27.65	1.03
Raisin Grapes (3/16) (11 ft. row spacing)	1.26	25.50	1.20		1.33	27.18	1.10		1.19	25.57	1.11
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.46	27.99	1.34		1.53	30.08	1.24		1.35	28.20	1.25
Walnuts (4/15)	1.74	28.36	1.62		1.81	30.45	1.52		1.62	28.47	1.53
Stone Fruit (3/20)	1.67	28.55	1.55		1.74	30.66	1.45		1.56	28.59	1.46
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	11.08				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)	2.6	2.2	2.0	1.7	2.7	2.3	2.0	1.8	2.4	2.0	1.8	1.6
Pistachio (4/19)	2.6	2.2	2.0	1.8	2.7	2.3	2.0	1.8	2.4	2.1	1.8	1.6
Citrus (2/1)	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.2	1.6	1.4	1.2	1.1
Raisin Grapes (3/16) (11 ft. row spacing)	1.9	1.7	1.5	1.3	2.0	1.8	1.6	1.4	1.8	1.6	1.4	1.3
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.2	1.9	1.7	1.5	2.4	2.0	1.8	1.6	2.1	1.8	1.6	1.4
Walnuts (4/15)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.5	2.2	1.9	1.7
Stone Fruit (3/20)	2.6	2.2	2.0	1.8	2.7	2.3	2.0	1.8	2.4	2.1	1.8	1.6

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			
Almonds 115 Trees/A	614	519	472	401	638	543	472	425	567	472	425	378
Pistachio 106 Trees/A	648	548	498	448	673	573	498	448	598	523	448	399
Citrus 110 Trees/A	420	370	321	296	444	395	346	296	395	346	296	272
Raisin Grapes 566 Vines/A	91	82	72	62	96	86	77	67	86	77	67	62
Winegrapes 622 Vines/A	96	83	74	65	105	87	79	70	92	79	70	61
Walnuts 76 Trees/A	965	822	715	643	1000	857	750	679	893	786	679	607
Stonefruit 172 Trees/A	410	347	316	284	426	363	316	284	379	332	284	253

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)

08/30/19 through 09/05/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	8/30- 9/5 Water Use	Accum'd Seasonal Water Use	9/6- 9/12 Estimated ETc		8/30- 9/5 Water Use	Accum'd Seasonal Water Use	9/6- 9/12 Estimated ETc		8/30- 9/5 Water Use	Accum'd Seasonal Water Use	9/6- 9/12 Estimated ETc
Almonds (3/10) *	1.80	41.33	1.49		1.98	41.96	1.71		1.78	39.41	1.65
Pistachio (4/19) * **	1.81	34.21	1.56		2.05	34.18	1.71		1.80	32.11	1.67
Citrus (2/1)	1.15	31.40	1.07		1.27	32.46	1.17		1.14	30.18	1.13
Raisin Grapes (3/16) (11 ft. row spacing)	1.38	29.39	1.21		1.54	29.33	1.29		1.36	27.52	1.27
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.59	32.32	1.35		1.77	32.50	1.50		1.57	30.41	1.46
Walnuts (4/15)	1.88	32.67	1.63		2.12	32.79	1.78		1.87	30.66	1.74
Stone Fruit (3/20)	1.81	32.90	1.56		2.05	33.26	1.71		1.80	31.14	1.67
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2019)	4.80				7.42				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			
	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)	2.8	2.4	2.1	1.9		3.0	2.6	2.3	2.1		2.7	2.4	2.1	1.9
Pistachio (4/19)	2.8	2.4	2.1	1.9		3.2	2.7	2.4	2.2		2.8	2.4	2.1	1.9
Citrus (2/1)	1.8	1.5	1.4	1.2		2.0	1.7	1.5	1.3		1.8	1.5	1.3	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	2.1	1.8	1.6	1.5		2.4	2.1	1.8	1.6		2.1	1.8	1.6	1.4
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.4	2.1	1.9	1.7		2.7	2.4	2.1	1.9		2.4	2.1	1.8	1.7
Walnuts (4/15)	2.9	2.5	2.2	2.0		3.3	2.8	2.5	2.2		2.9	2.5	2.2	2.0
Stone Fruit (3/20)	2.8	2.4	2.1	1.9		3.2	2.7	2.4	2.2		2.8	2.4	2.1	1.9

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			
	661	567	496	449		708	614	543	496		638	567	496	449
Almonds 115 Trees/A	661	567	496	449		708	614	543	496		638	567	496	449
Pistachio 106 Trees/A	698	598	523	473		797	673	598	548		698	598	523	473
Citrus 110 Trees/A	444	370	346	296		494	420	370	321		444	370	321	296
Raisin Grapes 566 Vines/A	101	86	77	72		115	101	86	77		101	86	77	67
Winegrapes 622 Vines/A	105	92	83	74		118	105	92	83		105	92	79	74
Walnuts 76 Trees/A	1036	893	786	715		1179	1000	893	786		1036	893	786	715
Stonefruit 172 Trees/A	442	379	332	300		505	426	379	347		442	379	332	300

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