

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET <sub>C</sub> ) 08/02/19 through 08/08/19												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	8/2- 8/8 Water Use	Accum'd Seasonal Water Use	8/9 - 8/15 Estimated ETc		8/2- 8/8 Water Use	Accum'd Seasonal Water Use	8/9 - 8/15 Estimated ETc		8/2- 8/8 Water Use	Accum'd Seasonal Water Use	8/9 - 8/15 Estimated ETc	
Almonds (3/10) *	1.87	28.91	1.92		2.04	31.18	1.78		1.91	29.52	1.82	
Pistachio (4/19) * **	1.94	22.55	1.99		2.11	24.19	1.78		1.98	23.05	1.82	
Citrus (2/1)	1.13	23.09	1.15		1.24	24.95	1.08		1.14	23.45	1.12	
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.47	20.06	1.50		1.59	21.40	1.36		1.49	20.37	1.40	
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.67	21.72	1.71		1.83	23.47	1.57		1.70	22.25	1.61	
Walnuts (4/15)	2.01	20.93	2.06		2.18	22.56	1.85		2.05	21.37	1.89	
Stone Fruit (3/20 )	1.90	21.40	1.99		2.07	23.05	1.78		1.94	21.76	1.82	
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 <sub>o</sub> will be used for the weekly report.												
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 (3/10)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	2.9	2.5	2.2	2.0
Pistachio (4/19)	3.0	2.6	2.3	2.0	3.2	2.8	2.5	2.2	3.0	2.6	2.3	2.1
Citrus (2/1)	1.7	1.5	1.3	1.2	1.9	1.7	1.5	1.3	1.8	1.5	1.3	1.2
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.3	2.0	1.7	1.5	2.4	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	2.6	2.2	2.0	1.8	2.8	2.4	2.2	1.9	2.6	2.3	2.0	1.8
Walnuts (4/15)	3.1	2.7	2.4	2.1	3.4	2.9	2.6	2.3	3.2	2.7	2.4	2.2
Stone Fruit (3/20 )	2.9	2.5	2.2	2.0	3.2	2.8	2.4	2.2	3.0	2.6	2.3	2.0
<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			
	685	590	519	472	732	638	567	496	685	590	519	472
Almonds 115 Trees/A	685	590	519	472	732	638	567	496	685	590	519	472
Pistachio 106 Trees/A	747	648	573	498	797	698	623	548	747	648	573	523
Citrus 110 Trees/A	420	370	321	296	469	420	370	321	444	370	321	296
Raisin Grapes 566 Vines/A	110	96	82	72	115	101	91	82	110	96	86	77
Winegrapes 622 Vines/A	114	96	87	79	122	105	96	83	114	100	87	79
Walnuts 76 Trees/A	1108	965	857	750	1215	1036	929	822	1143	965	857	786
Stonefruit 172 Trees/A	458	395	347	316	505	442	379	347	474	410	363	316

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>)

08/02/19 through 08/08/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	8/2- 8/8 Water Use	Accum'd Seasonal Water Use	8/9 - 8/15 Estimated ETc		8/2- 8/8 Water Use	Accum'd Seasonal Water Use	8/9 - 8/15 Estimated ETc		8/2- 8/8 Water Use	Accum'd Seasonal Water Use	8/9 - 8/15 Estimated ETc
Almonds (3/10) *	2.12	33.65	1.84		2.17	33.81	2.03		2.05	31.96	2.02
Pistachio (4/19) * **	2.19	26.35	1.86		2.24	25.75	2.10		2.12	24.51	2.09
Citrus (2/1)	1.29	26.67	1.12		1.33	27.42	1.26		1.25	25.59	1.25
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.65	23.42	1.42		1.69	22.99	1.61		1.60	21.75	1.60
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.91	25.48	1.63		1.96	25.19	1.82		1.84	23.80	1.81
Walnuts (4/15)	2.26	24.53	1.93		2.31	24.08	2.17		2.19	22.78	2.16
Stone Fruit (3/20 )	2.15	25.04	1.86		2.20	24.83	2.10		2.08	23.54	2.05
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 <sup>1</sup>**

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)	3.3	2.8	2.5	2.2	3.3	2.9	2.6	2.3	3.2	2.7	2.4	2.2
Pistachio (4/19)	3.4	2.9	2.6	2.3	3.4	3.0	2.6	2.4	3.3	2.8	2.5	2.2
Citrus (2/1)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.5	2.1	1.9	1.7
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1	2.8	2.5	2.2	1.9
Walnuts (4/15)	3.5	3.0	2.7	2.4	3.6	3.1	2.7	2.4	3.4	2.9	2.6	2.3
Stone Fruit (3/20 )	3.3	2.9	2.5	2.3	3.4	2.9	2.6	2.3	3.2	2.8	2.4	2.2

<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	#124 Panoche				#2 Five Points				#15 Stratford			
	779	661	590	519	779	685	614	543	756	638	567	519
Almonds 115 Trees/A	779	661	590	519	779	685	614	543	756	638	567	519
Pistachio 106 Trees/A	847	722	648	573	847	747	648	598	822	698	623	548
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	120	101	91	82
Winegrapes 622 Vines/A	127	109	96	87	131	114	100	92	122	109	96	83
Walnuts 76 Trees/A	1251	1072	965	857	1286	1108	965	857	1215	1036	929	822
Stonefruit 172 Trees/A	521	458	395	363	537	458	410	363	505	442	379	347

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.