



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/24/18 through 08/30/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	8/24- 8/30 Water Use	Accum'd Seasonal Water Use	8/31- 9/6 Estimated ETc	8/24- 8/30 Water Use	Accum'd Seasonal Water Use	8/31- 9/6 Estimated ETc	8/24- 8/30 Water Use	Accum'd Seasonal Water Use	8/31- 9/6 Estimated ETc
Almonds (3/16) *	1.66	35.14	1.48	1.68	36.47	1.46	1.63	35.33	1.47
Pistachio (4/21) * **	1.66	25.70	1.48	1.68	27.15	1.47	1.64	26.59	1.48
Citrus (2/1)	1.02	27.67	0.98	1.05	28.50	0.97	1.02	27.56	0.98
Raisin Grapes (3/16) (11 ft. row spacing)	1.26	25.28	1.13	1.28	26.32	1.12	1.24	25.57	1.13
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.45	27.58	1.27	1.47	28.78	1.26	1.43	28.03	1.27
Walnuts (4/4)	1.73	30.85	1.51	1.75	32.30	1.49	1.71	31.43	1.50
Stone Fruit (3/16)	1.66	28.96	1.48	1.68	30.43	1.47	1.64	29.65	1.48
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33			4.96			3.32		

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	#188 Madera II				#39 Parlier				#86 Lindcove			
	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 (3/16)	2.6	2.2	2.0	1.7	2.6	2.2	2.0	1.8	2.5	2.2	1.9	1.7
Pistachio (4/21)	2.6	2.2	2.0	1.7	2.6	2.2	2.0	1.8	2.5	2.2	1.9	1.7
Citrus (2/1)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	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	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.5	2.2	1.9	1.7	1.5
Walnuts (4/4)	2.7	2.3	2.0	1.8	2.7	2.3	2.1	1.8	2.6	2.3	2.0	1.8
Stone Fruit (3/16)	2.6	2.2	2.0	1.7	2.6	2.2	2.0	1.8	2.5	2.2	1.9	1.7

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	#188 Madera II				#39 Parlier				#86 Lindcove			
	Almonds 115 Trees/A	614	519	472	401	614	519	472	425	590	519	449
Pistachio 106 Trees/A	648	548	498	424	648	548	498	448	623	548	473	424
Citrus 110 Trees/A	395	346	296	272	395	346	296	272	395	346	296	272
Raisin Grapes 566 Vines/A	91	82	72	62	96	82	72	62	91	82	72	62
Winegrapes 622 Vines/A	96	83	74	65	100	87	74	65	96	83	74	65
Walnuts 76 Trees/A	965	822	715	643	965	822	750	643	929	822	715	643
Stonefruit 172 Trees/A	410	347	316	268	410	347	316	284	395	347	300	268

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)

08/24/18 through 08/30/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	8/24- 8/30 Water Use	Accum'd Seasonal Water Use	8/31- 9/6 Estimated ETc		8/24- 8/30 Water Use	Accum'd Seasonal Water Use	8/31- 9/6 Estimated ETc		8/24- 8/30 Water Use	Accum'd Seasonal Water Use	8/31- 9/6 Estimated ETc
Almonds (3/16) *	1.68	38.40	1.64		1.80	40.47	1.72		1.74	40.20	0.26
Pistachio (4/21) * **	1.68	28.58	1.64		1.82	29.82	1.72		1.76	29.47	0.26
Citrus (2/1)	1.05	30.82	1.07		1.13	32.84	1.15		1.08	32.47	0.16
Raisin Grapes (3/16) (11 ft. row spacing)	1.28	27.26	1.26		1.38	28.50	1.30		1.34	28.27	0.20
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.47	29.92	1.43		1.59	31.30	1.51		1.53	31.07	0.23
Walnuts (4/4)	1.75	33.89	1.67		1.89	35.57	1.75		1.83	35.26	0.27
Stone Fruit (3/16)	1.68	32.09	1.64		1.82	33.69	1.72		1.76	33.32	0.26
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	2.56				3.04				1.62		

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 (3/16)	2.6	2.2	2.0	1.8		2.8	2.4	2.1	1.9		2.7	2.3	2.0	1.8
Pistachio (4/21)	2.6	2.2	2.0	1.8		2.8	2.4	2.1	1.9		2.7	2.3	2.1	1.9
Citrus (2/1)	1.6	1.4	1.2	1.1		1.7	1.5	1.3	1.2		1.7	1.4	1.3	1.1
Raisin Grapes (3/16) (11 ft. row spacing)	2.0	1.7	1.5	1.3		2.1	1.8	1.6	1.5		2.1	1.8	1.6	1.4
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.3	2.0	1.7	1.5		2.4	2.1	1.9	1.7		2.4	2.0	1.8	1.6
Walnuts (4/4)	2.7	2.3	2.1	1.8		2.9	2.5	2.2	2.0		2.8	2.4	2.2	1.9
Stone Fruit (3/16)	2.6	2.2	2.0	1.8		2.8	2.4	2.1	1.9		2.7	2.3	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			
	614	519	472	425		661	567	496	449		638	543	472	425
Almonds 115 Trees/A	614	519	472	425		661	567	496	449		638	543	472	425
Pistachio 106 Trees/A	648	548	498	448		698	598	523	473		673	573	523	473
Citrus 110 Trees/A	395	346	296	272		420	370	321	296		420	346	321	272
Raisin Grapes 566 Vines/A	96	82	72	62		101	86	77	72		101	86	77	67
Winegrapes 622 Vines/A	100	87	74	65		105	92	83	74		105	87	79	70
Walnuts 76 Trees/A	965	822	750	643		1036	893	786	715		1000	857	786	679
Stonefruit 172 Trees/A	410	347	316	284		442	379	332	300		426	363	332	300

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