



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/05/19 through 07/11/19

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/5- 7/11 Water Use	Accum'd Seasonal Water Use	7/12- 7/18 Estimated ETc	7/5- 7/11 Water Use	Accum'd Seasonal Water Use	7/12- 7/18 Estimated ETc	7/5- 7/11 Water Use	Accum'd Seasonal Water Use	7/12- 7/18 Estimated ETc
Almonds (3/10) *	1.93	21.12	2.08	2.03	22.79	1.96	2.00	21.77	1.96
Pistachio (4/19) * **	2.02	14.49	2.15	2.12	15.52	2.03	2.09	15.03	2.03
Citrus (2/1)	1.19	18.37	1.26	1.26	19.81	1.19	1.25	18.77	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.53	13.96	1.61	1.60	14.85	1.54	1.59	14.34	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.75	14.76	1.87	1.85	15.92	1.75	1.82	15.32	1.75
Walnuts (4/15)	1.68	13.30	1.90	1.78	14.33	1.78	1.75	13.76	1.78
Stone Fruit (3/20)	1.69	14.01	1.80	1.79	15.06	1.68	1.76	14.41	1.68
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2019)	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 >>												
Almonds (3/10)	3.0	2.6	2.3	2.0	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1
Pistachio (4/19)	3.1	2.7	2.4	2.1	3.3	2.8	2.5	2.2	3.2	2.8	2.5	2.2
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.4	2.0	1.8	1.6	2.5	2.1	1.9	1.7	2.4	2.1	1.9	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.7	2.3	2.1	1.8	2.8	2.5	2.2	1.9	2.8	2.4	2.1	1.9
Walnuts (4/15)	2.6	2.2	2.0	1.8	2.7	2.4	2.1	1.9	2.7	2.3	2.1	1.8
Stone Fruit (3/20)	2.6	2.3	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	Almonds 115 Trees/A	708	614	543	472	732	638	567	496	732	638	567
Pistachio 106 Trees/A	772	673	598	523	822	698	623	548	797	698	623	548
Citrus 110 Trees/A	444	395	346	321	469	420	370	321	469	420	370	321
Raisin Grapes 566 Vines/A	115	96	86	77	120	101	91	82	115	101	91	82
Winegrapes 622 Vines/A	118	100	92	79	122	109	96	83	122	105	92	83
Walnuts 76 Trees/A	929	786	715	643	965	857	750	679	965	822	750	643
Stonefruit 172 Trees/A	410	363	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.



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
07/05/19 through 07/11/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	7/5-7/11 Water Use	Accum'd Seasonal Water Use	7/12-7/18 Estimated ETc		7/5-7/11 Water Use	Accum'd Seasonal Water Use	7/12-7/18 Estimated ETc		7/5-7/11 Water Use	Accum'd Seasonal Water Use	7/12-7/18 Estimated ETc
Almonds (3/10) *	2.24	24.71	2.04		2.17	24.96	2.16		2.05	23.53	2.17
Pistachio (4/19) * **	2.31	17.17	2.11		2.25	16.63	2.23		2.14	15.83	2.24
Citrus (2/1)	1.37	21.23	1.26		1.34	22.03	1.32		1.26	20.45	1.33
Raisin Grapes (3/16) (11 ft. row spacing)	1.75	16.45	1.61		1.69	16.09	1.67		1.61	15.18	1.68
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.99	17.44	1.83		1.95	17.20	1.95		1.84	16.23	1.96
Walnuts (4/15)	1.96	15.79	1.86		1.90	15.40	1.98		1.79	14.53	1.99
Stone Fruit (3/20)	1.96	16.49	1.76		1.90	16.34	1.88		1.80	15.51	1.89
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)	3.4	3.0	2.6	2.4	3.3	2.9	2.6	2.3	3.2	2.7	2.4	2.2
Pistachio (4/19)	3.6	3.1	2.7	2.4	3.5	3.0	2.6	2.4	3.3	2.9	2.5	2.3
Citrus (2/1)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.7	2.3	2.1	1.8	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)	3.1	2.7	2.3	2.1	3.0	2.6	2.3	2.1	2.8	2.5	2.2	1.9
Walnuts (4/15)	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0	2.8	2.4	2.1	1.9
Stone Fruit (3/20)	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0	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			
	803	708	614	567	779	685	614	543	756	638	567	519
Almonds 115 Trees/A	803	708	614	567	779	685	614	543	756	638	567	519
Pistachio 106 Trees/A	897	772	673	598	872	747	648	598	822	722	623	573
Citrus 110 Trees/A	518	444	395	346	518	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	130	110	101	86	125	110	96	86	120	101	91	82
Winegrapes 622 Vines/A	135	118	100	92	131	114	100	92	122	109	96	83
Walnuts 76 Trees/A	1072	929	822	750	1036	893	786	715	1000	857	750	679
Stonefruit 172 Trees/A	474	410	363	332	458	395	347	316	442	379	332	300

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