

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/27/18 through 08/02/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	7/27- 8/2 Water Use	Accum'd Seasonal Water Use	8/3- 8/9 Estimated ETc	7/27- 8/2 Water Use	Accum'd Seasonal Water Use	8/3- 8/9 Estimated ETc	7/27- 8/2 Water Use	Accum'd Seasonal Water Use	8/3- 8/9 Estimated ETc
Almonds (3/16) *	1.87	28.19	1.76	2.00	28.95	1.79	1.93	27.90	1.82
Pistachio (4/21) * **	1.92	18.75	1.76	2.06	19.46	1.79	1.98	18.96	1.82
Citrus (2/1)	1.12	23.46	1.06	1.22	23.91	1.09	1.17	23.05	1.12
Raisin Grapes (3/16) (11 ft. row spacing)	1.45	19.99	1.34	1.57	20.47	1.37	1.51	19.79	1.40
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.66	21.47	1.55	1.79	22.10	1.58	1.72	21.43	1.61
Walnuts (4/4)	1.99	23.62	1.83	2.13	24.33	1.86	2.05	23.52	1.89
Stone Fruit (3/16)	1.84	22.01	1.76	1.99	22.74	1.79	1.92	22.02	1.82
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)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.0
Pistachio (4/21)	3.0	2.6	2.3	2.0	3.2	2.7	2.4	2.2	3.0	2.6	2.3	2.1
Citrus (2/1)	1.7	1.5	1.3	1.2	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.2
Raisin Grapes (3/16) (11 ft. row spacing)	2.2	1.9	1.7	1.5	2.4	2.1	1.8	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	1.7	2.8	2.4	2.1	1.9	2.6	2.3	2.0	1.8
Walnuts (4/4)	3.1	2.7	2.3	2.1	3.3	2.8	2.5	2.2	3.2	2.7	2.4	2.2
Stone Fruit (3/16)	2.8	2.5	2.2	1.9	3.1	2.7	2.3	2.1	3.0	2.6	2.3	2.0

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	685	590	519	472	732	638	567	496	708	614	543
Pistachio 106 Trees/A	747	648	573	498	797	673	598	548	747	648	573	523
Citrus 110 Trees/A	420	370	321	296	469	395	346	321	444	395	346	296
Raisin Grapes 566 Vines/A	106	91	82	72	115	101	86	82	110	96	86	77
Winegrapes 622 Vines/A	114	96	87	74	122	105	92	83	114	100	87	79
Walnuts 76 Trees/A	1108	965	822	750	1179	1000	893	786	1143	965	857	786
Stonefruit 172 Trees/A	442	395	347	300	489	426	363	332	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_c)
07/27/18 through 08/02/18

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	7/27- 8/2 Water Use	Accum'd Seasonal Water Use	8/3- 8/9 Estimated ETc		7/27- 8/2 Water Use	Accum'd Seasonal Water Use	8/3- 8/9 Estimated ETc		7/27- 8/2 Water Use	Accum'd Seasonal Water Use	8/3- 8/9 Estimated ETc
Almonds (3/16) *	2.10	30.88	1.89		2.21	32.22	2.03		2.20	32.40	2.05
Pistachio (4/21) * **	2.17	20.92	1.96		2.28	21.38	2.10		2.27	21.51	2.12
Citrus (2/1)	1.28	26.21	1.12		1.34	27.79	1.26		1.35	27.71	1.26
Raisin Grapes (3/16) (11 ft. row spacing)	1.63	21.44	1.47		1.73	22.11	1.61		1.72	22.22	1.61
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.89	23.24	1.68		2.00	23.92	1.82		1.99	24.12	1.84
Walnuts (4/4)	2.24	25.95	2.03		2.35	26.84	2.17		2.34	27.02	2.19
Stone Fruit (3/16)	2.09	24.43	1.96		2.22	25.25	2.10		2.21	25.36	2.12
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)	3.2	2.8	2.5	2.2	3.4	2.9	2.6	2.3	3.4	2.9	2.6	2.3
Pistachio (4/21)	3.3	2.9	2.6	2.3	3.5	3.0	2.7	2.4	3.5	3.0	2.7	2.4
Citrus (2/1)	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.7	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	3.1	2.7	2.3	2.1
Walnuts (4/4)	3.4	3.0	2.6	2.4	3.6	3.1	2.8	2.5	3.6	3.1	2.8	2.5
Stone Fruit (3/16)	3.2	2.8	2.5	2.2	3.4	3.0	2.6	2.3	3.4	2.9	2.6	2.3

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			
	756	661	590	519	803	685	614	543	803	685	614	543
Almonds 115 Trees/A	756	661	590	519	803	685	614	543	803	685	614	543
Pistachio 106 Trees/A	822	722	648	573	872	747	673	598	872	747	673	598
Citrus 110 Trees/A	494	420	370	321	518	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	120	106	91	82	130	110	96	86	125	110	96	86
Winegrapes 622 Vines/A	127	109	96	87	135	118	105	92	135	118	100	92
Walnuts 76 Trees/A	1215	1072	929	857	1286	1108	1000	893	1286	1108	1000	893
Stonefruit 172 Trees/A	505	442	395	347	537	474	410	363	537	458	410	363

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