



**UCCE/DWR Weekly Crop
Water Use Report**

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
11/02/18 through 11/08/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	11/2- 11/8 Water Use	Accum'd Seasonal Water Use	11/9- 11/15 Estimated ETc	11/2- 11/8 Water Use	Accum'd Seasonal Water Use	11/9- 11/15 Estimated ETc	11/2- 11/8 Water Use	Accum'd Seasonal Water Use	11/9- 11/15 Estimated ETc
Almonds (3/16) *	0.43	45.04	0.33	0.63	47.51	0.28	0.61	46.08	0.28
Pistachio (4/21) * **	0.43	35.80	0.33	0.63	38.43	0.28	0.61	37.59	0.28
Citrus (2/1)	0.36	34.50	0.28	0.49	36.11	0.27	0.47	34.93	0.27
Raisin Grapes (3/16) (11 ft. row spacing)	0.43	33.40	0.33	0.57	35.36	0.28	0.56	34.38	0.28
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.50	36.75	0.40	0.70	39.06	0.35	0.68	38.06	0.35
Walnuts (4/4)	0.16	39.52	0.12	0.24	41.80	0.08	0.23	40.75	0.08
Stone Fruit (3/16)	0.42	38.97	0.33	0.56	41.55	0.28	0.54	40.48	0.28
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33			4.96			3.87		

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)	0.7	0.6	0.5	0.5	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6
Pistachio (4/21)	0.7	0.6	0.5	0.5	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6
Citrus (2/1)	0.6	0.5	0.4	0.4	0.8	0.7	0.6	0.5	0.7	0.6	0.6	0.5
Raisin Grapes (3/16) (11 ft. row spacing)	0.7	0.6	0.5	0.5	0.9	0.8	0.7	0.6	0.9	0.7	0.7	0.6
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.8	0.7	0.6	0.5	1.1	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Walnuts (4/4)	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.2
Stone Fruit (3/16)	0.6	0.6	0.5	0.4	0.9	0.7	0.7	0.6	0.8	0.7	0.6	0.6

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	#188 Madera II				#39 Parlier				#86 Lindcove			
	Almonds 115 Trees/A	165	142	118	118	236	189	165	165	213	189	165
Pistachio 106 Trees/A	174	149	125	125	249	199	174	174	224	199	174	149
Citrus 110 Trees/A	148	123	99	99	197	173	148	123	173	148	148	123
Raisin Grapes 566 Vines/A	34	29	24	24	43	38	34	29	43	34	34	29
Winegrapes 622 Vines/A	35	31	26	22	48	39	35	31	44	39	35	31
Walnuts 76 Trees/A	71	71	71	71	143	107	107	107	143	107	107	71
Stonefruit 172 Trees/A	95	95	79	63	142	111	111	95	126	111	95	95

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)

11/02/18 through 11/08/18

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	11/2- 11/8 Water Use	Accum'd Seasonal Water Use	11/9- 11/15 Estimated ETc	11/2- 11/8 Water Use	Accum'd Seasonal Water Use	11/9- 11/15 Estimated ETc	11/2- 11/8 Water Use	Accum'd Seasonal Water Use	11/9- 11/15 Estimated ETc
Almonds (3/16) *	0.61	49.07	0.39	0.87	52.96	0.39	0.80	52.66	0.45
Pistachio (4/21) * **	0.61	39.48	0.39	0.85	42.53	0.39	0.79	42.14	0.45
Citrus (2/1)	0.47	38.15	0.32	0.68	41.52	0.32	0.64	41.16	0.38
Raisin Grapes (3/16) (11 ft. row spacing)	0.57	35.96	0.39	0.82	38.78	0.39	0.77	38.57	0.45
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.68	39.95	0.46	0.94	43.02	0.46	0.87	42.73	0.52
Walnuts (4/4)	0.23	43.08	0.14	0.28	46.19	0.14	0.28	45.91	0.14
Stone Fruit (3/16)	0.54	42.85	0.39	0.80	46.35	0.39	0.73	45.91	0.42
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2018)	2.56			3.42			1.74		

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.

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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)	0.9	0.8	0.7	0.6	1.3	1.2	1.0	0.9	1.2	1.1	0.9	0.8
Pistachio (4/21)	0.9	0.8	0.7	0.6	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8
Citrus (2/1)	0.7	0.6	0.6	0.5	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Raisin Grapes (3/16) (11 ft. row spacing)	0.9	0.8	0.7	0.6	1.3	1.1	1.0	0.9	1.2	1.0	0.9	0.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.0	0.9	0.8	0.7	1.4	1.3	1.1	1.0	1.3	1.2	1.0	0.9
Walnuts (4/4)	0.4	0.3	0.3	0.2	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3
Stone Fruit (3/16)	0.8	0.7	0.6	0.6	1.2	1.1	0.9	0.8	1.1	1.0	0.9	0.8

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			
Almonds 115 Trees/A	213	189	165	142	307	283	236	213	283	260	213	189
Pistachio 106 Trees/A	224	199	174	149	324	274	249	224	299	274	224	199
Citrus 110 Trees/A	173	148	148	123	247	222	197	173	247	222	197	173
Raisin Grapes 566 Vines/A	43	38	34	29	62	53	48	43	58	48	43	38
Winegrapes 622 Vines/A	44	39	35	31	61	57	48	44	57	52	44	39
Walnuts 76 Trees/A	143	107	107	71	143	143	107	107	143	143	107	107
Stonefruit 172 Trees/A	126	111	95	95	189	174	142	126	174	158	142	126

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