HEALTHY FOOD SYSTEMS • HEALTHY ENVIRONMENTS • HEALTHY COMMUNITIES • HEALTHY CALIFORNIANS

University of California
Agriculture and Natural Resources
Making a Difference for California

UCCE

UCCE/DWR Weekly Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

04/07/17 through 04/13/17

Crops (Leafout Date)	**#188 Madera II**			**#39 Parlier**			**#86 Lindcove**		
	Past Week of Water Use	Accum'd Seasonal Water Use	Next Week's Estimated ETc	Past Week of Water Use	Accum'd Seasonal Water Use	Next Week's Estimated ETc	Past Week of Water Use	Accum'd Seasonal Water Use	Next Week's Estimated ETc
Almonds (3/1) *	0.68	3.18	1.04	0.65	3.39	1.00	0.62	3.13	1.00
Pistachio (4/1) * **	0.09	0.14	0.26	0.09	0.15	0.26	0.09	0.15	0.26
Citrus (2/1)	0.64	4.88	0.95	0.62	5.10	0.91	0.59	4.71	0.91
Raisin Grapes (3/15) (11 ft. row spacing)***	0.14	0.39	0.00	0.14	0.40	0.00	0.12	0.37	0.00
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.20	0.63	0.00	0.21	0.66	0.00	0.18	0.60	0.00
Walnuts (4/1)	0.11	0.21	0.74	0.09	0.21	0.70	0.09	0.20	0.70
Stone Fruit (3/8)	0.33	1.24	0.53	0.36	1.37	0.49	0.32	1.22	0.49
Past 7 days precipitation (inches)		0.29			0.65			0.69	
Accumulated precipitation (inches) (1/1/2017)		7.18			8.99			9.45	

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.

*** Raisin Grapes and Winegrapes apply RDI 80% from June 1 through September

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY [1]

Crops	**#188 Madera II**				**#39 Parlier**				**#86 Lindcove**			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7
Pistachio (4/1)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Citrus (2/1)	1.0	0.9	0.8	0.7	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6
Raisin Grapes (3/15) (late season table, 75% cover)***	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2
Walnuts (4/1)	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Stone Fruit (3/8)	0.5	0.4	0.4	0.3	0.6	0.5	0.4	0.4	0.5	0.4	0.4	0.3

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%.

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

HEALTHY FOOD SYSTEMS • HEALTHY ENVIRONMENTS • HEALTHY COMMUNITIES • HEALTHY CALIFORNIANS

University of California
Agriculture and Natural Resources
Making a Difference for California

UC CE

UCCE/DWR Weekly Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

04/07/17 through 04/13/17

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	Past Week of Water Use	Accum'd Seasonal Water Use	Next Week's Estimated ETc	Past Week of Water Use	Accum'd Seasonal Water Use	Next Week's Estimated ETc	Past Week of Water Use	Accum'd Seasonal Water Use	Next Week's Estimated ETc
Almonds (3/1) *	0.76	3.91	1.05	0.82	4.01	1.10	0.83	4.04	1.10
Pistachio (4/1) * **	0.11	0.17	0.26	0.11	0.19	0.26	0.11	0.18	0.26
Citrus (2/1)	0.71	5.87	0.96	0.78	6.06	1.01	0.80	6.08	1.01
Raisin Grapes (3/15) (11 ft. row spacing)***	0.15	0.43	0.21	0.16	0.44	0.21	0.16	0.46	0.21
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.22	0.73	0.29	0.23	0.77	0.31	0.23	0.78	0.31
Walnuts (4/1)	0.11	0.23	0.74	0.14	0.28	0.77	0.15	0.27	0.77
Stone Fruit (3/8)	0.38	1.59	0.53	0.43	1.66	0.56	0.43	1.69	0.56
Past 7 days precipitation (inches)		0.09			0.00			0.10	
Accumulated precipitation (inches) (1/1/2017)		7.42			5.46			4.64	

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.

*** Raisin Grapes and Winegrapes apply RDI 80% from June 1 through September

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY [1]

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	1.2	1.0	0.9	0.8	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Pistachio (4/1)	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Citrus (2/1)	1.1	0.9	0.8	0.7	1.2	1.0	0.9	0.8	1.2	1.1	0.9	0.8
Raisin Grapes (3/15) (late season table, 75% cover)***	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.2
Walnuts (4/1)	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
Stone Fruit (3/8)	0.6	0.5	0.4	0.4	0.7	0.6	0.5	0.5	0.7	0.6	0.5	0.5

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%.

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