

UCCE/DWR Weekly Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES												
(Estimated Crop Evapotranspiration or ET _C)												
07/10/20 through 07/16/20												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	7/10- 7/16 Water Use	Accum'd Seasonal Water Use	7/17- 7/23 Estimated ETc		7/10- 7/16 Water Use	Accum'd Seasonal Water Use	7/17- 7/23 Estimated ETc		7/10- 7/16 Water Use	Accum'd Seasonal Water Use	7/17- 7/23 Estimated ETc	
Almonds (3/5) *	2.05	25.85	2.06		2.11	26.05	1.96		2.10	24.46	1.96	
Pistachio (4/13) * **	2.12	18.59	2.13		2.18	18.83	2.03		2.17	17.97	2.03	
Citrus (2/1)	1.24	22.37	1.26		1.29	22.13	1.19		1.28	20.89	1.19	
Raisin Grapes (3/16) (11 ft. row spacing)	1.63	16.04	1.64		1.66	16.21	1.54		1.66	15.55	1.54	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.84	17.30	1.85		1.90	17.46	1.75		1.89	16.63	1.75	
Walnuts (4/8)	1.91	18.38	2.00		1.97	18.61	1.90		1.96	17.71	1.90	
Stone Fruit (3/10)	1.98	19.19	1.99		2.06	19.41	1.89		2.03	18.34	1.89	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2020)	5.05				4.80				5.61			
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	#148 Merced				#39 Parlier				#258 Lemon Cove			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	3.2	2.7	2.4	2.2	3.2	2.8	2.5	2.2	3.2	2.8	2.5	2.2
Pistachio (4/13)	3.3	2.8	2.5	2.2	3.4	2.9	2.6	2.3	3.3	2.9	2.6	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)***	2.5	2.2	1.9	1.7	2.6	2.2	2.0	1.7	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.8	2.5	2.2	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Walnuts (4/8)	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1
Stone Fruit (3/10)	3.0	2.6	2.3	2.1	3.2	2.7	2.4	2.2	3.1	2.7	2.4	2.1
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	756	638	567	519	756	661	590	519	756	661	590	519
Pistachio 106 Trees/A	822	698	623	548	847	722	648	573	822	722	648	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	106	96	82	125	106	96	82
Winegrapes 622 Vines/A	122	109	96	83	127	109	96	87	127	109	96	87
Walnuts 76 Trees/A	1036	893	786	715	1072	929	822	750	1072	929	822	750
Stonefruit 172 Trees/A	474	410	363	332	505	426	379	347	489	426	379	332
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.												

