

UCCE/DWR Weekly Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _C) 07/03/20 through 07/09/20												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	7/3- 7/9 Water Use	Accum'd Seasonal Water Use	7/10- 7/16 Estimated ETc		7/3- 7/9 Water Use	Accum'd Seasonal Water Use	7/10- 7/16 Estimated ETc		7/3- 7/9 Water Use	Accum'd Seasonal Water Use	7/10- 7/16 Estimated ETc	
Almonds (3/5) *	2.12	23.81	2.10		2.19	23.92	1.97		2.07	22.36	1.97	
Pistachio (4/13) * **	2.19	16.48	2.17		2.26	16.63	2.04		2.14	15.80	2.04	
Citrus (2/1)	1.30	21.14	1.26		1.33	20.82	1.20		1.26	19.61	1.20	
Raisin Grapes (3/16) (11 ft. row spacing)	1.67	14.41	1.68		1.72	14.54	1.55		1.65	13.89	1.55	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.91	15.47	1.89		1.96	15.54	1.76		1.86	14.74	1.76	
Walnuts (4/8)	1.90	16.48	1.96		1.97	16.62	1.83		1.85	15.75	1.83	
Stone Fruit (3/10)	1.84	17.22	2.03		1.91	17.33	1.90		1.79	16.31	1.90	
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)	3.3	2.8	2.5	2.2	3.4	2.9	2.6	2.3	3.2	2.8	2.4	2.2
Pistachio (4/13)	3.4	2.9	2.6	2.3	3.5	3.0	2.7	2.4	3.3	2.9	2.5	2.3
Citrus (2/1)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)***	2.6	2.2	2.0	1.8	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1	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	2.8	2.5	2.2	1.9
Stone Fruit (3/10)	2.8	2.5	2.2	1.9	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	779	661	590	519	803	685	614	543	756	661	567	519
Pistachio 106 Trees/A	847	722	648	573	872	747	673	598	822	722	623	573
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	125	106	96	86	125	110	96	86	120	106	91	82
Winegrapes 622 Vines/A	127	109	96	87	131	114	100	92	127	109	96	87
Walnuts 76 Trees/A	1036	893	786	715	1072	929	822	750	1000	893	786	679
Stonefruit 172 Trees/A	442	395	347	300	458	395	347	316	442	379	332	300
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.												

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.

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	3.6	3.1	2.7	2.4	3.4	3.0	2.6	2.3	3.6	3.1	2.8	2.5
Pistachio (4/13)	3.7	3.2	2.8	2.5	3.5	3.1	2.7	2.4	3.7	3.2	2.8	2.5
Citrus (2/1)	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.4	2.2	1.9	1.7	1.5
Raisin Grapes (3/16) (11 ft. row spacing)	2.8	2.4	2.2	1.9	2.7	2.3	2.1	1.8	2.9	2.5	2.2	2.0
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	3.2	2.7	2.4	2.2	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2
Walnuts (4/8)	3.2	2.8	2.5	2.2	3.1	2.7	2.4	2.1	3.3	2.8	2.5	2.2
Stone Fruit (3/10)	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	850	732	638	567	803	708	614	543	850	732	661	590
Pistachio 106 Trees/A	922	797	698	623	872	772	673	598	922	797	698	623
Citrus 110 Trees/A	543	469	420	370	518	444	395	346	543	469	420	370
Raisin Grapes 566 Vines/A	134	115	106	91	130	110	101	86	139	120	106	96
Winegrapes 622 Vines/A	140	118	105	96	131	114	100	92	140	122	105	96
Walnuts 76 Trees/A	1143	1000	893	786	1108	965	857	750	1179	1000	893	786
Stonefruit 172 Trees/A	489	426	379	332	474	410	363	332	505	442	379	347

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