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)

07/08/22 through 07/14/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/8- 7/14 Water Use	Accum'd Seasonal Water Use	7/15- 7/21 Estimated ETc	7/8- 7/14 Water Use	Accum'd Seasonal Water Use	7/15- 7/21 Estimated ETc	7/8- 7/14 Water Use	Accum'd Seasonal Water Use	7/15- 7/21 Estimated ETc
Almonds (3/1) *	2.18	26.32	2.52	2.18	26.95	2.17	1.95	25.47	2.17
Pistachio (4/8) * **	2.25	21.04	2.52	2.25	21.63	2.24	2.01	20.35	2.24
Citrus (2/1)	1.34	22.17	1.47	1.34	22.69	1.33	1.19	21.64	1.33
Raisin Grapes (3/15) (11 ft. row spacing)	1.45	14.08	1.67	1.45	14.48	1.43	1.30	13.56	1.43
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.67	15.01	1.90	1.67	15.40	1.67	1.48	14.48	1.67
Walnuts (4/8)	2.32	21.60	2.66	2.32	22.27	2.31	2.08	21.00	2.31
Stone Fruit (3/10)	2.14	19.42	2.45	2.14	19.85	2.10	1.88	18.71	2.10
Past 7 days precipitation (inches)		0.00			0.00			0.00	
Accumulated precipitation (inches) (1/1/2022)		1.98			1.84			1.82	

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 (3/1)	3.4	2.9	2.6	2.3	3.4	2.9	2.6	2.3	3.0	2.6	2.3	2.1
Pistachio (4/8)	3.5	3.0	2.6	2.4	3.5	3.0	2.6	2.4	3.1	2.7	2.4	2.1
Citrus (2/1)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	1.8	1.6	1.4	1.3
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.5	Assume all grape			1.5	Assume all grape			1.4
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.8	irrigation type is drip			1.8	irrigation type is drip			1.6
Walnuts (4/8)	3.6	3.1	2.7	2.4	3.6	3.1	2.7	2.4	3.2	2.8	2.4	2.2
Stone Fruit (3/10)	3.3	2.9	2.5	2.3	3.3	2.9	2.5	2.3	2.9	2.5	2.2	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	803	685	614	543	803	685	614	543	708	614	543	496
Pistachio 106 Trees/A	872	747	648	598	872	747	648	598	772	673	598	523
Citrus 110 Trees/A	518	444	395	346	518	444	395	346	444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape			72	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			79	irrigation type is drip			79	irrigation type is drip			70
Walnuts 76 Trees/A	1286	1108	965	857	1286	1108	965	857	1143	1000	857	786
Stonefruit 172 Trees/A	521	458	395	363	521	458	395	363	458	395	347	316

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

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07/08/22 through 07/14/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/8- 7/14 Water Use	Accum'd Seasonal Water Use	7/15- 7/21 Estimated ETc	7/8- 7/14 Water Use	Accum'd Seasonal Water Use	7/15- 7/21 Estimated ETc	7/8- 7/14 Water Use	Accum'd Seasonal Water Use	7/15- 7/21 Estimated ETc
Almonds (3/1) *	2.35	29.73	2.52	2.36	30.81	2.59	2.45	31.33	2.59
Pistachio (4/8) * **	2.40	23.44	2.52	2.40	24.18	2.59	2.47	24.58	2.59
Citrus (2/1)	1.43	24.73	1.47	1.42	25.74	1.54	1.46	25.85	1.54
Raisin Grapes (3/15) (11 ft. row spacing)	1.56	15.61	1.67	1.56	16.17	1.73	1.62	16.45	1.73
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.76	16.61	1.89	1.77	17.10	1.95	1.80	17.41	1.95
Walnuts (4/8)	2.48	24.14	2.66	2.50	24.97	2.73	2.57	25.44	2.73
Stone Fruit (3/10)	2.33	21.66	2.45	2.32	22.37	2.52	2.40	22.74	2.52
Past 7 days precipitation (inches)		0.00			0.00			0.00	
Accumulated precipitation (inches) (1/1/2022)		1.23			1.11			1.30	

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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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)	3.6	3.1	2.8	2.5	3.6	3.1	2.8	2.5	3.8	3.3	2.9	2.6
Pistachio (4/8)	3.7	3.2	2.8	2.5	3.7	3.2	2.8	2.5	3.8	3.3	2.9	2.6
Citrus (2/1)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.6	Assume all grape			1.6	Assume all grape			1.7
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.9	irrigation type is drip			1.9	irrigation type is drip			1.9
Walnuts (4/8)	3.8	3.3	2.9	2.6	3.8	3.3	2.9	2.6	4.0	3.4	3.0	2.7
Stone Fruit (3/10)	3.6	3.1	2.7	2.5	3.6	3.1	2.7	2.4	3.7	3.2	2.8	2.5

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%.

PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	850	732	661	590	850	732	661	590	897	779	685	614
Pistachio 106 Trees/A	922	797	698	623	922	797	698	623	947	822	722	648
Citrus 110 Trees/A	543	469	420	370	543	469	420	370	543	469	420	370
Raisin Grapes 566 Vines/A	Assume all grape			77	Assume all grape			77	Assume all grape			82
Winegrapes 622 Vines/A	irrigation type is drip			83	irrigation type is drip			83	irrigation type is drip			83
Walnuts 76 Trees/A	1358	1179	1036	929	1358	1179	1036	929	1429	1215	1072	965
Stonefruit 172 Trees/A	568	489	426	395	568	489	426	379	584	505	442	395

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