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)
05/02/25 through 05/08/25

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	05/02 - 05/08 Water Use	Accum'd Seasonal Water Use	05/09 - 05/15 Estimated ETc	05/02 - 05/08 Water Use	Accum'd Seasonal Water Use	05/09 - 05/15 Estimated ETc	05/02 - 05/08 Water Use	Accum'd Seasonal Water Use	05/09 - 05/15 Estimated ETc
Almonds (3/1) *	1.27	7.72	1.41	1.29	7.77	1.40	1.20	7.08	1.46
Pistachio (4/25) * **	0.46	0.66	0.77	0.48	0.67	0.76	0.44	0.61	0.80
Citrus (2/1)	1.05	9.03	1.07	1.05	9.23	1.06	0.99	8.50	1.12
Raisin Grapes (4/14) (11 ft. row spacing)	0.58	1.35	0.75	0.58	1.33	0.75	0.54	1.24	0.77
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	0.55	1.41	0.69	0.54	1.40	0.69	0.53	1.30	0.71
Walnuts (4/14)	0.79	1.51	1.01	0.78	1.52	1.00	0.74	1.45	1.04
Stone Fruit (3/8)	0.82	3.70	1.05	0.82	3.80	1.05	0.78	3.48	1.05
Past 7 days precipitation (inches)		0.00			0.02			0.03	
Accumulated precipitation (inches) (1/1/2025)		0.00			5.35			4.44	

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)	2.0	1.7	1.5	1.3	2.0	1.7	1.5	1.4	1.8	1.6	1.4	1.3
Pistachio (4/25)	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.7	0.6	0.5	0.5
Citrus (2/1)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.5	1.3	1.2	1.0
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			0.6	Assume all grape			0.6	Assume all grape			0.6
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.6	irrigation type is drip			0.6	irrigation type is drip			0.6
Walnuts (4/14)	1.2	1.1	0.9	0.8	1.2	1.0	0.9	0.8	1.1	1.0	0.9	0.8
Stone Fruit (3/8)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.2	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	472	401	354	307	472	401	354	331	425	378	331	307
Pistachio 106 Trees/A	174	149	125	125	174	149	149	125	174	149	125	125
Citrus 110 Trees/A	395	346	296	272	395	346	296	272	370	321	296	247
Raisin Grapes 566 Vines/A	Assume all grape			29	Assume all grape			29	Assume all grape			29
Winegrapes 622 Vines/A	irrigation type is drip			26	irrigation type is drip			26	irrigation type is drip			26
Walnuts 76 Trees/A	429	393	322	286	429	357	322	286	393	357	322	286
Stonefruit 172 Trees/A	205	174	158	142	205	174	158	142	189	158	142	126

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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05/02/25 through 05/08/25

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	05/02- 05/08 Water Use	Accum'd Seasonal Water Use	05/09- 05/15 Estimated ETc	05/02- 05/08 Water Use	Accum'd Seasonal Water Use	05/09- 05/15 Estimated ETc	05/02- 05/08 Water Use	Accum'd Seasonal Water Use	05/09- 05/15 Estimated ETc
Almonds (3/1) *	1.38	7.53	1.60	1.42	7.69	1.60	1.47	8.25	1.60
Pistachio (4/25) * **	0.52	0.70	0.88	0.53	0.70	0.88	0.55	0.75	0.88
Citrus (2/1)	1.14	9.58	1.26	1.16	9.71	1.26	1.21	10.49	1.26
Raisin Grapes (4/14) (11 ft. row spacing)	0.64	1.40	0.84	0.65	1.42	0.85	0.69	1.54	0.84
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	0.60	1.48	0.81	0.63	1.48	0.81	0.66	1.61	0.81
Walnuts (4/14)	0.86	1.62	1.12	0.88	1.60	1.14	0.91	1.72	1.13
Stone Fruit (3/8)	0.89	3.86	1.19	0.91	3.80	1.19	0.94	4.05	1.19
Past 7 days precipitation (inches)		0.00			0.00			0.01	
Accumulated precipitation (inches) (1/1/2025)		2.31			3.13			2.72	

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	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.1	1.8	1.6	1.5	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.5
Pistachio (4/25)	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.6
Citrus (2/1)	1.8	1.5	1.3	1.2	1.8	1.5	1.4	1.2	1.9	1.6	1.4	1.3
Raisin Grapes (4/14) (11 ft. row spacing)	Assume all grape			0.7	Assume all grape			0.7	Assume all grape			0.7
Winegrapes (4/14) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.6	irrigation type is drip			0.6	irrigation type is drip			0.7
Walnuts (4/14)	1.3	1.1	1.0	0.9	1.4	1.2	1.0	0.9	1.4	1.2	1.1	1.0
Stone Fruit (3/8)	1.4	1.2	1.0	0.9	1.4	1.2	1.1	1.0	1.4	1.3	1.1	1.0

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	#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	496	425	378	354	519	449	401	354	543	472	401	354
Pistachio 106 Trees/A	199	174	149	125	199	174	149	149	199	174	149	149
Citrus 110 Trees/A	444	370	321	296	444	370	346	296	469	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			34	Assume all grape			34	Assume all grape			34
Winegrapes 622 Vines/A	irrigation type is drip			26	irrigation type is drip			26	irrigation type is drip			31
Walnuts 76 Trees/A	464	393	357	322	500	429	357	322	500	429	393	357
Stonefruit 172 Trees/A	221	189	158	142	221	189	174	158	221	205	174	158

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