

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

05/03/24 through 05/09/24

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	05/03 - 05/09 Water Use	Accum'd Seasonal Water Use	05/10 - 05/16 Estimated ET _c		05/03 - 05/09 Water Use	Accum'd Seasonal Water Use	05/10 - 05/16 Estimated ET _c		05/03 - 05/09 Water Use	Accum'd Seasonal Water Use	05/10 - 05/16 Estimated ET _c
Almonds (3/1) *	1.31	7.86	1.46		1.20	7.98	1.46		1.24	7.69	1.50
Pistachio (4/20) * **	0.51	0.93	0.76		0.48	0.91	0.76		0.49	0.88	0.78
Citrus (2/1)	1.05	8.86	1.08		0.96	9.12	1.08		0.99	8.81	1.12
Raisin Grapes (3/11) (11 ft. row spacing)	0.57	1.75	0.68		0.54	1.78	0.68		0.54	1.72	0.71
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.56	2.12	0.63		0.50	2.11	0.63		0.53	2.06	0.65
Walnuts (4/20)	0.80	1.07	0.84		0.73	1.06	0.84		0.75	1.08	0.84
Stone Fruit (3/11)	0.80	3.52	1.02		0.73	3.57	1.02		0.75	3.49	1.02
Past 7 days precipitation (inches)	0.00				0.34				0.59		
Accumulated precipitation (inches) (1/1/2024)	14.98				8.98				9.71		

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			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/1)	2.0	1.7	1.5	1.4		1.8	1.6	1.4	1.3		1.9	1.7	1.5	1.3
Pistachio (4/20)	0.8	0.7	0.6	0.5		0.7	0.6	0.6	0.5		0.8	0.7	0.6	0.5
Citrus (2/1)	1.6	1.4	1.2	1.1		1.5	1.3	1.1	1.0		1.5	1.3	1.2	1.0
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			0.6		Assume all grape			0.6		Assume all grape			0.6
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.6		irrigation type is drip			0.5		irrigation type is drip			0.6
Walnuts (4/20)	1.2	1.1	0.9	0.8		1.1	1.0	0.9	0.8		1.2	1.0	0.9	0.8
Stone Fruit (3/11)	1.2	1.1	0.9	0.8		1.1	1.0	0.9	0.8		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	331		425	378	331	307		449	401	354	307
Pistachio 106 Trees/A	199	174	149	125		174	149	149	125		199	174	149	125
Citrus 110 Trees/A	395	346	296	272		370	321	272	247		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			22		irrigation type is drip			26
Walnuts 76 Trees/A	429	393	322	286		393	357	322	286		429	357	322	286
Stonefruit 172 Trees/A	189	174	142	126		174	158	142	126		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.

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
05/03/24 through 05/09/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	05/03- 05/09 Water Use	Accum'd Seasonal Water Use	05/10- 05/16 Estimated ETc		05/03- 05/09 Water Use	Accum'd Seasonal Water Use	05/10- 05/16 Estimated ETc		05/03- 05/09 Water Use	Accum'd Seasonal Water Use	05/10- 05/16 Estimated ETc
Almonds (3/1) *	1.24	7.87	1.62		1.30	8.07	1.62		1.15	7.51	1.62
Pistachio (4/20) * **	0.52	1.00	0.85		0.53	1.05	0.85		0.47	0.91	0.85
Citrus (2/1)	1.01	9.35	1.26		1.06	9.73	1.26		0.94	9.18	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	0.54	1.82	0.77		0.55	1.89	0.77		0.50	1.72	0.77
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.51	2.19	0.71		0.54	2.24	0.71		0.48	2.08	0.71
Walnuts (4/20)	0.76	1.12	0.94		0.80	1.18	0.95		0.71	1.06	0.96
Stone Fruit (3/11)	0.76	3.79	1.15		0.80	3.82	1.15		0.71	3.50	1.15
Past 7 days precipitation (inches)	0.19				0.17				0.14		
Accumulated precipitation (inches) (1/1/2024)	6.60				6.86				5.43		

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%
Almonds (3/1)		1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4		1.8	1.5	1.4	1.2
Pistachio (4/20)		0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.6		0.7	0.6	0.6	0.5
Citrus (2/1)		1.6	1.3	1.2	1.1	1.6	1.4	1.2	1.1		1.4	1.3	1.1	1.0
Raisin Grapes (3/11) (11 ft. row spacing)		Assume all grape			0.6	Assume all grape			0.6		Assume all grape			0.5
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)		irrigation type is drip			0.5	irrigation type is drip			0.5		irrigation type is drip			0.5
Walnuts (4/20)		1.2	1.0	0.9	0.8	1.2	1.1	0.9	0.8		1.1	0.9	0.8	0.7
Stone Fruit (3/11)		1.2	1.0	0.9	0.8	1.2	1.1	0.9	0.8		1.1	0.9	0.8	0.7

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Walnuts 76 Trees/A	429	357	322	286		429	393	322	286		393	322	286	250
Stonefruit 172 Trees/A	189	158	142	126		189	174	142	126		174	142	126	111

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