

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
04/26/24 through 05/02/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	04/26 - 05/02 Water Use	Accum'd Seasonal Water Use	05/03 - 05/09 Estimated ETc	04/26 - 05/02 Water Use	Accum'd Seasonal Water Use	05/03 - 05/09 Estimated ETc	04/26 - 05/02 Water Use	Accum'd Seasonal Water Use	05/03 - 05/09 Estimated ETc
Almonds (3/1) *	1.18	6.55	1.31	1.25	6.78	1.33	1.13	6.45	1.41
Pistachio (4/20) * **	0.30	0.42	0.51	0.32	0.43	0.53	0.28	0.39	0.55
Citrus (2/1)	0.97	7.81	1.05	1.04	8.16	1.05	0.94	7.82	1.11
Raisin Grapes (3/11) (11 ft. row spacing)	0.42	1.18	0.51	0.48	1.24	0.52	0.43	1.17	0.55
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.44	1.56	0.51	0.48	1.61	0.52	0.43	1.53	0.55
Walnuts (4/20)	0.15	0.27	0.80	0.19	0.33	0.82	0.18	0.33	0.84
Stone Fruit (3/11)	0.75	2.72	0.80	0.80	2.84	0.82	0.73	2.74	0.84
Past 7 days precipitation (inches)	0.00			0.00			0.06		
Accumulated precipitation (inches) (1/1/2024)	14.98			8.64			9.12		

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%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	1.8	1.6	1.4	1.2	1.9	1.7	1.5	1.3	1.7	1.5	1.3	1.2
Pistachio (4/20)	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.3	0.4	0.4	0.3	0.3
Citrus (2/1)	1.5	1.3	1.1	1.0	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			0.4	Assume all grape			0.5	Assume all grape			0.4
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)	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2
Stone Fruit (3/11)	1.2	1.0	0.9	0.8	1.2	1.1	0.9	0.8	1.1	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	425	378	331	283	449	401	354	307	401	354	307
Pistachio 106 Trees/A	125	100	100	75	125	100	100	75	100	100	75	75
Citrus 110 Trees/A	370	321	272	247	395	346	296	272	346	321	272	247
Raisin Grapes 566 Vines/A	Assume all grape			19	Assume all grape			24	Assume all grape			19
Winegrapes 622 Vines/A	irrigation type is drip			22	irrigation type is drip			22	irrigation type is drip			22
Walnuts 76 Trees/A	71	71	71	71	107	107	71	71	107	71	71	71
Stonefruit 172 Trees/A	189	158	142	126	189	174	142	126	174	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)
04/26/24 through 05/02/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	04/26- 05/02 Water Use	Accum'd Seasonal Water Use	05/03- 05/09 Estimated ETc		04/26- 05/02 Water Use	Accum'd Seasonal Water Use	05/03- 05/09 Estimated ETc		04/26- 05/02 Water Use	Accum'd Seasonal Water Use	05/03- 05/09 Estimated ETc
Almonds (3/1) *	1.44	6.63	1.52		1.51	6.77	1.54		1.27	6.36	1.54
Pistachio (4/20) * **	0.37	0.48	0.60		0.39	0.52	0.62		0.33	0.44	0.62
Citrus (2/1)	1.22	8.34	1.24		1.29	8.67	1.26		1.07	8.24	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	0.51	1.28	0.58		0.54	1.34	0.60		0.45	1.22	0.60
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.53	1.68	0.58		0.55	1.69	0.60		0.48	1.59	0.60
Walnuts (4/20)	0.21	0.36	0.91		0.22	0.38	0.91		0.19	0.35	0.91
Stone Fruit (3/11)	0.92	3.03	0.91		0.98	3.02	0.91		0.83	2.79	0.91
Past 7 days precipitation (inches)		0.00				0.00				0.00	
Accumulated precipitation (inches) (1/1/2024)		6.41				6.69				5.29	

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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	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
System Efficiency >>														
Almonds (3/1)	2.2	1.9	1.7	1.5		2.3	2.0	1.8	1.6		2.0	1.7	1.5	1.3
Pistachio (4/20)	0.6	0.5	0.4	0.4		0.6	0.5	0.5	0.4		0.5	0.4	0.4	0.3
Citrus (2/1)	1.9	1.6	1.4	1.3		2.0	1.7	1.5	1.4		1.6	1.4	1.3	1.1
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			0.5		Assume all grape			0.6		Assume all grape			0.5
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.6		irrigation type is drip			0.6		irrigation type is drip			0.5
Walnuts (4/20)	0.3	0.3	0.2	0.2		0.3	0.3	0.3	0.2		0.3	0.3	0.2	0.2
Stone Fruit (3/11)	1.4	1.2	1.1	1.0		1.5	1.3	1.2	1.0		1.3	1.1	1.0	0.9

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

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Almonds 115 Trees/A	519	449	401	354		543	472	425	378		472	401	354	307
Pistachio 106 Trees/A	149	125	100	100		149	125	125	100		125	100	100	75
Citrus 110 Trees/A	469	395	346	321		494	420	370	346		395	346	321	272
Raisin Grapes 566 Vines/A	Assume all grape			24		Assume all grape			29		Assume all grape			24
Winegrapes 622 Vines/A	irrigation type is drip			26		irrigation type is drip			26		irrigation type is drip			22
Walnuts 76 Trees/A	107	107	71	71		107	107	107	71		107	107	71	71
Stonefruit 172 Trees/A	221	189	174	158		237	205	189	158		205	174	158	142

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