

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/07/24 through 06/13/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	06/07 - 06/13 Water Use	Accum'd Seasonal Water Use	06/14 - 06/20 Estimated ETc	06/07 - 06/13 Water Use	Accum'd Seasonal Water Use	06/14 - 06/20 Estimated ETc	06/07 - 06/13 Water Use	Accum'd Seasonal Water Use	06/14 - 06/20 Estimated ETc
Almonds (3/1) *	1.84	16.09	1.95	2.01	16.92	1.96	1.96	16.47	1.96
Pistachio (4/20) * **	2.03	7.90	2.09	2.20	8.46	2.10	2.15	8.26	2.10
Citrus (2/1)	1.19	14.57	1.25	1.32	15.40	1.26	1.28	14.97	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	1.29	7.06	1.36	1.39	7.59	1.36	1.35	7.42	1.36
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.35	7.35	1.48	1.49	7.85	1.49	1.45	7.67	1.49
Walnuts (4/20)	1.49	7.08	1.60	1.62	7.59	1.61	1.57	7.49	1.61
Stone Fruit (3/11)	1.46	9.72	1.60	1.62	10.38	1.61	1.58	10.17	1.61
Past 7 days precipitation (inches)	0.00			0.00			0.00		
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%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.8	2.5	2.2	1.9	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1
Pistachio (4/20)	3.1	2.7	2.4	2.1	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3
Citrus (2/1)	1.8	1.6	1.4	1.3	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.5	Assume all grape			1.4
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.4	irrigation type is drip			1.6	irrigation type is drip			1.5
Walnuts (4/20)	2.3	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.4	2.1	1.8	1.7
Stone Fruit (3/11)	2.2	1.9	1.7	1.5	2.5	2.2	1.9	1.7	2.4	2.1	1.9	1.7

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	661	590	519	449	732	638	567	496	708	614	543
Pistachio 106 Trees/A	772	673	598	523	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	444	395	346	321	494	444	395	346	494	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			72	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			70	irrigation type is drip			65
Walnuts 76 Trees/A	822	715	643	572	893	786	679	607	857	750	643	607
Stonefruit 172 Trees/A	347	300	268	237	395	347	300	268	379	332	300	268

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)
06/07/24 through 06/13/24

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	06/07- 06/13 Water Use	Accum'd Seasonal Water Use	06/14- 06/20 Estimated ETc	06/07- 06/13 Water Use	Accum'd Seasonal Water Use	06/14- 06/20 Estimated ETc	06/07- 06/13 Water Use	Accum'd Seasonal Water Use	06/14- 06/20 Estimated ETc
Almonds (3/1) *	1.97	17.09	2.17	2.02	17.62	2.17	1.88	15.86	2.17
Pistachio (4/20) * **	2.18	8.86	2.31	2.23	9.18	2.31	2.09	7.96	2.31
Citrus (2/1)	1.30	15.86	1.40	1.33	16.49	1.40	1.24	15.06	1.40
Raisin Grapes (3/11) (11 ft. row spacing)	1.38	7.81	1.52	1.41	8.11	1.52	1.32	7.10	1.52
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.46	8.03	1.62	1.49	8.29	1.62	1.39	7.30	1.62
Walnuts (4/20)	1.60	7.90	1.82	1.63	8.22	1.82	1.52	7.18	1.82
Stone Fruit (3/11)	1.60	10.86	1.82	1.65	11.11	1.82	1.52	9.86	1.82
Past 7 days precipitation (inches)	0.00			0.00			0.00		
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			
	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)	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1	2.9	2.5	2.2	2.0
Pistachio (4/20)	3.4	2.9	2.6	2.3	3.4	3.0	2.6	2.3	3.2	2.8	2.5	2.2
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 (3/11) (11 ft. row spacing)	Assume all grape			1.4	Assume all grape			1.5	Assume all grape			1.4
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip			1.5	irrigation type is drip			1.5
Walnuts (4/20)	2.5	2.1	1.9	1.7	2.5	2.2	1.9	1.7	2.3	2.0	1.8	1.6
Stone Fruit (3/11)	2.5	2.1	1.9	1.7	2.5	2.2	1.9	1.7	2.3	2.0	1.8	1.6

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			
	708	614	543	496	732	638	567	496	685	590	519	472
Almonds 115 Trees/A	708	614	543	496	732	638	567	496	685	590	519	472
Pistachio 106 Trees/A	847	722	648	573	847	747	648	573	797	698	623	548
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			72	Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			65	irrigation type is drip			65
Walnuts 76 Trees/A	893	750	679	607	893	786	679	607	822	715	643	572
Stonefruit 172 Trees/A	395	332	300	268	395	347	300	268	363	316	284	253

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