

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/10/22 through 06/16/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/10 - 6/16 Water Use	Accum'd Seasonal Water Use	6/17 - 6/23 Estimated ETc	6/10 - 6/16 Water Use	Accum'd Seasonal Water Use	6/17 - 6/23 Estimated ETc	6/10 - 6/16 Water Use	Accum'd Seasonal Water Use	6/17 - 6/23 Estimated ETc
Almonds (3/1) *	1.98	17.89	1.96	2.08	18.49	1.96	1.92	17.68	1.98
Pistachio (4/8) * **	2.17	12.26	2.10	2.28	12.83	2.10	2.12	12.18	2.12
Citrus (2/1)	1.29	16.99	1.26	1.36	17.46	1.26	1.25	16.84	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	1.39	8.39	1.36	1.46	8.77	1.36	1.33	8.29	1.38
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.48	8.62	1.43	1.56	8.98	1.43	1.44	8.57	1.45
Walnuts (4/8)	1.85	13.09	1.89	1.95	13.73	1.89	1.79	13.09	1.91
Stone Fruit (3/10)	1.70	11.87	1.63	1.79	12.29	1.63	1.63	11.73	1.65
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.88			1.79			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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>												
Almonds (3/1)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.0	2.6	2.3	2.0
Pistachio (4/8)	3.3	2.9	2.6	2.3	3.5	3.0	2.7	2.4	3.3	2.8	2.5	2.2
Citrus (2/1)	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.4	1.9	1.7	1.5	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			1.6	irrigation type is drip			1.6	irrigation type is drip			1.5
Walnuts (4/8)	2.8	2.5	2.2	1.9	3.0	2.6	2.3	2.1	2.8	2.4	2.1	1.9
Stone Fruit (3/10)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.5	2.2	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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	708	614	543	472
Pistachio 106 Trees/A	822	722	648	573	872	747	673	598	822	698	623	548
Citrus 110 Trees/A	494	420	370	346	518	444	395	346	469	420	370	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			70	irrigation type is drip			70	irrigation type is drip			65
Walnuts 76 Trees/A	1000	893	786	679	1072	929	822	750	1000	857	750	679
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	395	347	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)

06/10/22 through 06/16/22

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/10- 6/16 Water Use	Accum'd Seasonal Water Use	6/17- 6/23 Estimated ETc		6/10- 6/16 Water Use	Accum'd Seasonal Water Use	6/17- 6/23 Estimated ETc		6/10- 6/16 Water Use	Accum'd Seasonal Water Use	6/17- 6/23 Estimated ETc
Almonds (3/1) *	2.28	20.49	2.18		2.42	21.53	2.20		2.44	21.82	2.21
Pistachio (4/8) * **	2.48	13.86	2.30		2.65	14.57	2.31		2.64	14.75	2.32
Citrus (2/1)	1.47	19.04	1.39		1.56	20.08	1.40		1.57	20.03	1.40
Raisin Grapes (3/15) (11 ft. row spacing)	1.58	9.41	1.48		1.69	9.92	1.49		1.70	10.05	1.50
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.69	9.67	1.60		1.79	10.13	1.61		1.79	10.29	1.62
Walnuts (4/8)	2.13	14.86	2.09		2.25	15.63	2.10		2.27	15.89	2.11
Stone Fruit (3/10)	1.93	13.34	1.83		2.06	14.04	1.84		2.07	14.19	1.85
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.11				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			
	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)	3.5	3.0	2.7	2.4		3.7	3.2	2.8	2.5		3.8	3.3	2.9	2.6
Pistachio (4/8)	3.8	3.3	2.9	2.6		4.1	3.5	3.1	2.8		4.1	3.5	3.1	2.8
Citrus (2/1)	2.3	2.0	1.7	1.5		2.4	2.1	1.8	1.6		2.4	2.1	1.8	1.7
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.7		Assume all grape			1.8		Assume all grape			1.8
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			1.9
Walnuts (4/8)	3.3	2.8	2.5	2.2		3.5	3.0	2.6	2.4		3.5	3.0	2.7	2.4
Stone Fruit (3/10)	3.0	2.6	2.3	2.0		3.2	2.7	2.4	2.2		3.2	2.8	2.4	2.2

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			
	826	708	638	567		874	756	661	590		897	779	685	614
Almonds 115 Trees/A	826	708	638	567		874	756	661	590		897	779	685	614
Pistachio 106 Trees/A	947	822	722	648		1021	872	772	698		1021	872	772	698
Citrus 110 Trees/A	568	494	420	370		592	518	444	395		592	518	444	420
Raisin Grapes 566 Vines/A	Assume all grape			82		Assume all grape			86		Assume all grape			86
Winegrapes 622 Vines/A	irrigation type is drip			79		irrigation type is drip			79		irrigation type is drip			83
Walnuts 76 Trees/A	1179	1000	893	786		1251	1072	929	857		1251	1072	965	857
Stonefruit 172 Trees/A	474	410	363	316		505	426	379	347		505	442	379	347

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