

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/24/22 through 06/30/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/24 - 6/30 Water Use	Accum'd Seasonal Water Use	7/1- 7/7 Estimated ET _c	6/24 - 6/30 Water Use	Accum'd Seasonal Water Use	7/1- 7/7 Estimated ET _c	6/24 - 6/30 Water Use	Accum'd Seasonal Water Use	7/1- 7/7 Estimated ET _c
Almonds (3/1) *	2.34	22.14	2.10	2.27	22.69	2.03	2.13	21.56	2.03
Pistachio (4/8) * **	2.42	16.72	2.17	2.34	17.23	2.10	2.24	16.31	2.10
Citrus (2/1)	1.43	19.62	1.26	1.39	20.08	1.26	1.33	19.28	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	1.57	11.28	1.43	1.51	11.63	1.37	1.45	10.95	1.37
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.75	11.82	1.60	1.69	12.14	1.54	1.61	11.51	1.54
Walnuts (4/8)	2.20	17.14	2.24	2.13	17.73	2.17	2.03	16.82	2.17
Stone Fruit (3/10)	2.06	15.55	1.82	1.99	15.91	1.75	1.89	15.11	1.75
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.98			1.84			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 K_c 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)	3.6	3.1	2.8	2.5	3.5	3.0	2.7	2.4	3.3	2.8	2.5	2.2
Pistachio (4/8)	3.7	3.2	2.8	2.5	3.6	3.1	2.8	2.5	3.4	3.0	2.6	2.4
Citrus (2/1)	2.2	1.9	1.7	1.5	2.1	1.9	1.6	1.5	2.0	1.8	1.6	1.4
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.7	Assume all grape			1.6	Assume all grape			1.5
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			1.7
Walnuts (4/8)	3.4	2.9	2.6	2.3	3.3	2.8	2.5	2.2	3.1	2.7	2.4	2.1
Stone Fruit (3/10)	3.2	2.7	2.4	2.2	3.1	2.7	2.3	2.1	2.9	2.5	2.2	2.0

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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	850	732	661	590	826	708	638	567	779	661	590	519
Pistachio 106 Trees/A	922	797	698	623	897	772	698	623	847	747	648	598
Citrus 110 Trees/A	543	469	420	370	518	469	395	370	494	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			82	Assume all grape			77	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			79	irrigation type is drip			79	irrigation type is drip			74
Walnuts 76 Trees/A	1215	1036	929	822	1179	1000	893	786	1108	965	857	750
Stonefruit 172 Trees/A	505	426	379	347	489	426	363	332	458	395	347	316

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)
06/24/22 through 06/30/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	6/24- 6/30 Water Use	Accum'd Seasonal Water Use	7/1- 7/7 Estimated ETc	6/24- 6/30 Water Use	Accum'd Seasonal Water Use	7/1- 7/7 Estimated ETc	6/24- 6/30 Water Use	Accum'd Seasonal Water Use	7/1- 7/7 Estimated ETc
Almonds (3/1) *	2.52	25.16	2.17	2.54	26.25	2.22	2.60	26.62	2.24
Pistachio (4/8) * **	2.62	18.75	2.24	2.64	19.51	2.29	2.71	19.78	2.31
Citrus (2/1)	1.55	21.93	1.33	1.54	22.97	1.38	1.59	22.99	1.40
Raisin Grapes (3/15) (11 ft. row spacing)	1.70	12.57	1.43	1.72	13.13	1.47	1.76	13.32	1.49
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.90	13.16	1.64	1.90	13.66	1.68	1.95	13.88	1.70
Walnuts (4/8)	2.38	19.30	2.31	2.40	20.13	2.36	2.46	20.47	2.38
Stone Fruit (3/10)	2.24	17.39	1.89	2.26	18.13	1.94	2.32	18.36	1.96
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.23			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)	3.9	3.4	3.0	2.7	3.9	3.4	3.0	2.7	4.0	3.5	3.1	2.7
Pistachio (4/8)	4.0	3.5	3.1	2.8	4.1	3.5	3.1	2.8	4.2	3.6	3.2	2.9
Citrus (2/1)	2.4	2.1	1.8	1.6	2.4	2.1	1.8	1.6	2.4	2.1	1.9	1.7
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.8	Assume all grape			1.8	Assume all grape			1.9
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			2.0	irrigation type is drip			2.0	irrigation type is drip			2.0
Walnuts (4/8)	3.7	3.2	2.8	2.5	3.7	3.2	2.8	2.5	3.8	3.3	2.9	2.6
Stone Fruit (3/10)	3.4	3.0	2.6	2.4	3.5	3.0	2.7	2.4	3.6	3.1	2.7	2.4

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			
	921	803	708	638	921	803	708	638	944	826	732	638
Almonds 115 Trees/A	921	803	708	638	921	803	708	638	944	826	732	638
Pistachio 106 Trees/A	996	872	772	698	1021	872	772	698	1046	897	797	722
Citrus 110 Trees/A	592	518	444	395	592	518	444	395	592	518	469	420
Raisin Grapes 566 Vines/A	Assume all grape			86	Assume all grape			86	Assume all grape			91
Winegrapes 622 Vines/A	irrigation type is drip			87	irrigation type is drip			87	irrigation type is drip			87
Walnuts 76 Trees/A	1322	1143	1000	893	1322	1143	1000	893	1358	1179	1036	929
Stonefruit 172 Trees/A	537	474	410	379	553	474	426	379	568	489	426	379

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