

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
09/02/22 through 09/08/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	9/3 - 9/9 Water Use	Accum'd Seasonal Water Use	9/10 - 9/16 Estimated ETc	9/3 - 9/9 Water Use	Accum'd Seasonal Water Use	9/10 - 9/16 Estimated ETc	9/3 - 9/9 Water Use	Accum'd Seasonal Water Use	9/10 - 9/16 Estimated ETc
Almonds (3/1) *	2.49	42.23	1.41	2.01	42.79	1.35	2.07	39.95	1.26
Pistachio (4/8) * **	2.50	37.24	1.32	2.02	37.88	1.26	2.08	35.14	1.17
Citrus (2/1)	1.69	32.03	1.05	1.35	32.51	0.99	1.39	30.55	0.90
Raisin Grapes (3/15) (11 ft. row spacing)	1.68	24.62	0.96	1.35	25.04	0.91	1.39	23.19	0.83
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.92	27.09	1.08	1.53	27.46	1.03	1.58	25.45	0.95
Walnuts (4/8)	2.27	37.85	1.27	1.80	38.50	1.21	1.86	35.82	1.14
Stone Fruit (3/10)	2.56	35.57	1.48	2.08	36.07	1.42	2.14	33.41	1.33
Past 7 days precipitation (inches)	▲ 0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	1.98			1.94			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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	3.8	3.3	2.9	2.6	3.1	2.7	2.4	2.1	3.2	2.8	2.4	2.2
Pistachio (4/8)	3.8	3.3	2.9	2.6	3.1	2.7	2.4	2.1	3.2	2.8	2.4	2.2
Citrus (2/1)	2.6	2.3	2.0	1.8	2.1	1.8	1.6	1.4	2.1	1.9	1.6	1.5
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.8	Assume all grape			1.4	Assume all grape			1.5
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			2.0	irrigation type is drip			1.6	irrigation type is drip			1.7
Walnuts (4/8)	3.5	3.0	2.7	2.4	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0
Stone Fruit (3/10)	3.9	3.4	3.0	2.7	3.2	2.8	2.4	2.2	3.3	2.9	2.5	2.3

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	897	779	685	614	732	638	567	496	756	661	567	519
Pistachio 106 Trees/A	947	822	722	648	772	673	598	523	797	698	598	548
Citrus 110 Trees/A	642	568	494	444	518	444	395	346	518	469	395	370
Raisin Grapes 566 Vines/A	Assume all grape			86	Assume all grape			67	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			87	irrigation type is drip			70	irrigation type is drip			74
Walnuts 76 Trees/A	1251	1072	965	857	1000	857	750	679	1036	893	786	715
Stonefruit 172 Trees/A	616	537	474	426	505	442	379	347	521	458	395	363

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)
09/02/22 through 09/08/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	9/3- 9/9 Water Use	Accum'd Seasonal Water Use	9/10- 9/16 Estimated ETc	9/3- 9/9 Water Use	Accum'd Seasonal Water Use	9/10- 9/16 Estimated ETc	9/3- 9/9 Water Use	Accum'd Seasonal Water Use	9/10- 9/16 Estimated ETc
Almonds (3/1) *	2.28	46.30	1.44	2.67	48.49	1.58	2.45	49.34	1.55
Pistachio (4/8) * **	2.29	40.37	1.35	2.71	42.24	1.49	2.46	43.02	1.46
Citrus (2/1)	1.59	35.08	1.03	1.88	36.82	1.12	1.70	37.12	1.09
Raisin Grapes (3/15) (11 ft. row spacing)	1.53	26.65	0.99	1.78	27.92	1.07	1.65	28.43	1.06
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.76	29.21	1.11	2.07	30.60	1.22	1.89	31.19	1.20
Walnuts (4/8)	2.07	41.07	1.30	2.44	43.02	1.44	2.23	43.83	1.41
Stone Fruit (3/10)	2.35	38.55	1.51	2.78	40.41	1.65	2.52	41.13	1.62
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	1.24			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	4.1	3.6	3.1	2.8	3.8	3.3	2.9	2.6
Pistachio (4/8)	3.5	3.1	2.7	2.4	4.2	3.6	3.2	2.9	3.8	3.3	2.9	2.6
Citrus (2/1)	2.4	2.1	1.9	1.7	2.9	2.5	2.2	2.0	2.6	2.3	2.0	1.8
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.6	Assume all grape			1.9	Assume all grape			1.7
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.9	irrigation type is drip			2.2	irrigation type is drip			2.0
Walnuts (4/8)	3.2	2.8	2.4	2.2	3.8	3.3	2.9	2.6	3.4	3.0	2.6	2.3
Stone Fruit (3/10)	3.6	3.1	2.8	2.5	4.3	3.7	3.3	2.9	3.9	3.4	3.0	2.7

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	#124 Panoche				#2 Five Points				#15 Stratford			
	826	708	638	567	968	850	732	661	897	779	685	614
Almonds 115 Trees/A	826	708	638	567	968	850	732	661	897	779	685	614
Pistachio 106 Trees/A	872	772	673	598	1046	897	797	722	947	822	722	648
Citrus 110 Trees/A	592	518	469	420	716	617	543	494	642	568	494	444
Raisin Grapes 566 Vines/A	Assume all grape			77	Assume all grape			91	Assume all grape			82
Winegrapes 622 Vines/A	irrigation type is drip			83	irrigation type is drip			96	irrigation type is drip			87
Walnuts 76 Trees/A	1143	1000	857	786	1358	1179	1036	929	1215	1072	929	822
Stonefruit 172 Trees/A	568	489	442	395	679	584	521	458	616	537	474	426

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