

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/05/22 through 08/11/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/5 - 8/11 Water Use	Accum'd Seasonal Water Use	8/12 - 8/18 Estimated ET _c	8/5 - 8/11 Water Use	Accum'd Seasonal Water Use	8/12 - 8/18 Estimated ET _c	8/5 - 8/11 Water Use	Accum'd Seasonal Water Use	8/12 - 8/18 Estimated ET _c
Almonds (3/1) *	1.76	34.31	1.89	1.83	35.04	1.89	1.54	32.59	1.82
Pistachio (4/8) * **	1.80	29.24	1.96	1.89	29.97	1.96	1.55	27.63	1.82
Citrus (2/1)	1.06	27.02	1.12	1.12	27.64	1.12	0.91	25.94	1.12
Raisin Grapes (3/15) (11 ft. row spacing)	1.16	19.39	1.25	1.22	19.88	1.25	0.99	18.28	1.19
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.33	21.09	1.43	1.39	21.58	1.43	1.16	19.86	1.37
Walnuts (4/8)	1.87	30.08	1.99	1.96	30.89	1.99	1.62	28.56	1.87
Stone Fruit (3/10)	1.80	27.51	1.96	1.89	28.10	1.96	1.55	25.84	1.82
Past 7 days precipitation (inches)	0.00			0.10			0.00		
Accumulated precipitation (inches) (1/1/2022)	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 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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.7	2.3	2.1	1.9	2.8	2.4	2.2	1.9	2.4	2.1	1.8	1.6
Pistachio (4/8)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.4	2.1	1.8	1.6
Citrus (2/1)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.4	1.2	1.1	1.0
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.2	Assume all grape			1.3	Assume all grape			1.0
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.4	irrigation type is drip			1.5	irrigation type is drip			1.2
Walnuts (4/8)	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1	2.5	2.2	1.9	1.7
Stone Fruit (3/10)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.4	2.1	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	638	543	496	449	661	567	519	449	567	496	425	378
Pistachio 106 Trees/A	698	598	523	473	722	623	548	498	598	523	448	399
Citrus 110 Trees/A	395	346	296	272	420	370	321	296	346	296	272	247
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			62	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			65	irrigation type is drip			52
Walnuts 76 Trees/A	1036	893	786	715	1072	929	822	750	893	786	679	607
Stonefruit 172 Trees/A	442	379	332	300	458	395	347	316	379	332	284	253

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)

08/05/22 through 08/11/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/5 - 8/11 Water Use	Accum'd Seasonal Water Use	8/12 - 8/18 Estimated ETc	8/5 - 8/11 Water Use	Accum'd Seasonal Water Use	8/12 - 8/18 Estimated ETc	8/5 - 8/11 Water Use	Accum'd Seasonal Water Use	8/12 - 8/18 Estimated ETc
Almonds (3/1) *	1.89	38.22	1.96	2.14	39.77	2.10	2.15	40.50	2.05
Pistachio (4/8) * **	1.96	32.13	2.03	2.20	33.33	2.17	2.22	33.96	2.12
Citrus (2/1)	1.15	29.90	1.19	1.32	31.18	1.26	1.32	31.42	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	1.27	21.26	1.31	1.43	22.13	1.43	1.43	22.52	1.39
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.44	23.05	1.49	1.64	23.93	1.61	1.65	24.40	1.56
Walnuts (4/8)	2.03	33.13	2.06	2.27	34.46	2.20	2.29	35.14	2.15
Stone Fruit (3/10)	1.96	30.25	2.03	2.20	31.43	2.17	2.22	32.01	2.12
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	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.

** 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	#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)	2.9	2.5	2.2	2.0	3.3	2.9	2.5	2.3	3.3	2.9	2.5	2.3
Pistachio (4/8)	3.0	2.6	2.3	2.1	3.4	2.9	2.6	2.3	3.4	3.0	2.6	2.3
Citrus (2/1)	1.8	1.5	1.4	1.2	2.0	1.8	1.6	1.4	2.0	1.8	1.6	1.4
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.3	Assume all grape			1.5	Assume all grape			1.5
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip			1.7	irrigation type is drip			1.7
Walnuts (4/8)	3.1	2.7	2.4	2.1	3.5	3.0	2.7	2.4	3.5	3.1	2.7	2.4
Stone Fruit (3/10)	3.0	2.6	2.3	2.1	3.4	2.9	2.6	2.3	3.4	3.0	2.6	2.3

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	685	590	519	472	779	685	590	543	779	685	590	543
Almonds 115 Trees/A	685	590	519	472	779	685	590	543	779	685	590	543
Pistachio 106 Trees/A	747	648	573	523	847	722	648	573	847	747	648	573
Citrus 110 Trees/A	444	370	346	296	494	444	395	346	494	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			62	Assume all grape			72	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			74	irrigation type is drip			74
Walnuts 76 Trees/A	1108	965	857	750	1251	1072	965	857	1251	1108	965	857
Stonefruit 172 Trees/A	474	410	363	332	537	458	410	363	537	474	410	363

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