

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/23/21 through 07/29/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/23- 7/29 Water Use	Accum'd Seasonal Water Use	7/30- 8/5 Estimated ETc	7/23- 7/29 Water Use	Accum'd Seasonal Water Use	7/30- 8/5 Estimated ETc	7/23- 7/29 Water Use	Accum'd Seasonal Water Use	7/30- 8/5 Estimated ETc
Almonds (3/5) *	2.19	30.26	1.96	2.07	31.73	1.86	1.90	29.86	1.89
Pistachio (4/16) * **	2.25	24.57	2.03	2.14	25.92	1.90	1.95	24.19	1.96
Citrus (2/1)	1.34	24.69	1.19	1.25	25.76	1.12	1.15	24.27	1.12
Raisin Grapes (3/12) (11 ft. row spacing)	1.72	19.75	1.54	1.64	20.91	1.44	1.49	19.51	1.47
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.97	21.43	1.75	1.86	22.62	1.65	1.69	21.10	1.68
Walnuts (4/5)	2.32	26.66	2.10	2.21	28.05	1.97	2.02	26.26	2.03
Stone Fruit (3/10)	2.23	23.12	2.03	2.12	24.38	1.90	1.93	22.78	1.96
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	5.54			3.66			3.90		

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 (3/5)	3.4	2.9	2.6	2.3	3.2	2.8	2.4	2.2	2.9	2.5	2.2	2.0
Pistachio (4/16)	3.5	3.0	2.6	2.4	3.3	2.9	2.5	2.3	3.0	2.6	2.3	2.1
Citrus (2/1)	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3	1.8	1.5	1.4	1.2
Raisin Grapes (3/12) (11 ft. row spacing)***	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7	2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0	2.6	2.3	2.0	1.8
Walnuts (4/5)	3.6	3.1	2.7	2.4	3.4	2.9	2.6	2.3	3.1	2.7	2.4	2.1
Stone Fruit (3/10)	3.4	3.0	2.6	2.3	3.3	2.8	2.5	2.2	3.0	2.6	2.3	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			
	80%	85%	90%	95%	80%	85%	90%	95%	80%	85%	90%	95%
Almonds 115 Trees/A	803	685	614	543	756	661	567	519	685	590	519	472
Pistachio 106 Trees/A	872	747	648	598	822	722	623	573	747	648	573	523
Citrus 110 Trees/A	518	444	395	346	469	420	370	321	444	370	346	296
Raisin Grapes 566 Vines/A	125	110	96	86	120	106	91	82	110	96	86	77
Winegrapes 622 Vines/A	131	114	100	92	127	109	96	87	114	100	87	79
Walnuts 76 Trees/A	1286	1108	965	857	1215	1036	929	822	1108	965	857	750
Stonefruit 172 Trees/A	537	474	410	363	521	442	395	347	474	410	363	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)

07/23/21 through 07/29/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/23 - 7/29 Water Use	Accum'd Seasonal Water Use	7/30 - 8/5 Estimated ETc	7/23 - 7/29 Water Use	Accum'd Seasonal Water Use	7/30 - 8/5 Estimated ETc	7/23 - 7/29 Water Use	Accum'd Seasonal Water Use	7/30 - 8/5 Estimated ETc
Almonds (3/5) *	2.39	34.09	1.93	2.18	34.31	2.10	2.29	35.01	2.09
Pistachio (4/16) * **	2.41	28.21	2.00	2.24	27.89	2.17	2.34	28.71	2.16
Citrus (2/1)	1.44	27.83	1.16	1.33	28.41	1.26	1.39	28.52	1.26
Raisin Grapes (3/12) (11 ft. row spacing)	1.85	22.66	1.51	1.71	22.48	1.68	1.79	23.12	1.67
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.13	24.57	1.72	1.96	24.39	1.89	2.06	25.04	1.88
Walnuts (4/5)	2.49	30.46	2.07	2.31	30.36	2.24	2.42	31.08	2.23
Stone Fruit (3/10)	2.40	26.43	2.00	2.22	26.40	2.17	2.32	27.03	2.16
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.72			3.06		

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 (3/5)	3.7	3.2	2.8	2.5	3.4	2.9	2.6	2.3	3.5	3.1	2.7	2.4
Pistachio (4/16)	3.7	3.2	2.8	2.5	3.4	3.0	2.6	2.4	3.6	3.1	2.8	2.5
Citrus (2/1)	2.2	1.9	1.7	1.5	2.0	1.8	1.6	1.4	2.1	1.9	1.6	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.8	2.5	2.2	1.9	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.3	2.8	2.5	2.2	3.0	2.6	2.3	2.1	3.2	2.7	2.4	2.2
Walnuts (4/5)	3.8	3.3	2.9	2.6	3.6	3.1	2.7	2.4	3.7	3.2	2.8	2.5
Stone Fruit (3/10)	3.7	3.2	2.8	2.5	3.4	3.0	2.6	2.3	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			
	Almonds 115 Trees/A	874	756	661	590	803	685	614	543	826	732	638
Pistachio 106 Trees/A	922	797	698	623	847	747	648	598	897	772	698	623
Citrus 110 Trees/A	543	469	420	370	494	444	395	346	518	469	395	370
Raisin Grapes 566 Vines/A	134	120	106	91	125	110	96	86	134	115	101	91
Winegrapes 622 Vines/A	144	122	109	96	131	114	100	92	140	118	105	96
Walnuts 76 Trees/A	1358	1179	1036	929	1286	1108	965	857	1322	1143	1000	893
Stonefruit 172 Trees/A	584	505	442	395	537	474	410	363	568	489	426	379

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