

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/16/21 through 07/22/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/16- 7/22 Water Use	Accum'd Seasonal Water Use	7/23- 7/29 Estimated ETc	7/16- 7/22 Water Use	Accum'd Seasonal Water Use	7/23- 7/29 Estimated ETc	7/16- 7/22 Water Use	Accum'd Seasonal Water Use	7/23- 7/29 Estimated ETc
Almonds (3/5) *	1.98	28.07	2.03	2.05	29.64	1.92	1.91	27.96	1.94
Pistachio (4/16) * **	2.05	22.32	2.10	2.12	23.76	1.99	1.98	22.24	2.01
Citrus (2/1)	1.20	23.35	1.26	1.25	24.49	1.15	1.17	23.12	1.17
Raisin Grapes (3/12) (11 ft. row spacing)	1.56	18.03	1.61	1.61	19.26	1.50	1.50	18.02	1.52
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.77	19.46	1.82	1.85	20.74	1.71	1.71	19.41	1.73
Walnuts (4/5)	2.12	24.34	2.17	2.19	25.82	2.06	2.04	24.24	2.08
Stone Fruit (3/10)	1.91	20.89	2.08	2.00	22.23	1.97	1.85	20.85	1.99
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)	3.0	2.6	2.3	2.1	3.2	2.7	2.4	2.2	2.9	2.5	2.2	2.0
Pistachio (4/16)	3.2	2.7	2.4	2.2	3.3	2.8	2.5	2.2	3.0	2.6	2.3	2.1
Citrus (2/1)	1.8	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.8	1.6	1.4	1.2
Raisin Grapes (3/12) (11 ft. row spacing)***	2.4	2.1	1.8	1.6	2.5	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.7	2.4	2.1	1.9	2.8	2.5	2.2	1.9	2.6	2.3	2.0	1.8
Walnuts (4/5)	3.3	2.8	2.5	2.2	3.4	2.9	2.6	2.3	3.1	2.7	2.4	2.1
Stone Fruit (3/10)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	2.8	2.5	2.2	1.9

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			
	Almonds 115 Trees/A	708	614	543	496	756	638	567	519	685	590	519
Pistachio 106 Trees/A	797	673	598	548	822	698	623	548	747	648	573	523
Citrus 110 Trees/A	444	395	346	321	469	420	370	321	444	395	346	296
Raisin Grapes 566 Vines/A	115	101	86	77	120	101	91	82	110	96	86	77
Winegrapes 622 Vines/A	118	105	92	83	122	109	96	83	114	100	87	79
Walnuts 76 Trees/A	1179	1000	893	786	1215	1036	929	822	1108	965	857	750
Stonefruit 172 Trees/A	458	395	347	316	489	426	379	332	442	395	347	300

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)
07/16/21 through 07/22/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/16- 7/22 Water Use	Accum'd Seasonal Water Use	7/23 - 7/29 Estimated ETc	7/16- 7/22 Water Use	Accum'd Seasonal Water Use	7/23 - 7/29 Estimated ETc	7/16- 7/22 Water Use	Accum'd Seasonal Water Use	7/23 - 7/29 Estimated ETc
Almonds (3/5) *	2.32	31.66	1.99	2.13	32.12	2.10	2.21	32.71	2.12
Pistachio (4/16) * **	2.38	25.77	2.06	2.18	25.64	2.17	2.27	26.36	2.19
Citrus (2/1)	1.42	26.38	1.22	1.29	27.07	1.26	1.35	27.13	1.28
Raisin Grapes (3/12) (11 ft. row spacing)	1.80	20.78	1.57	1.67	20.76	1.68	1.72	21.32	1.68
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.09	22.41	1.78	1.91	22.42	1.89	1.99	22.97	1.91
Walnuts (4/5)	2.45	27.93	2.13	2.26	28.04	2.24	2.34	28.65	2.26
Stone Fruit (3/10)	2.28	24.00	2.04	2.08	24.16	2.15	2.18	24.70	2.17
Past 7 days precipitation (inches)	0.00			0.07			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)	3.6	3.1	2.7	2.4	3.3	2.8	2.5	2.2	3.4	2.9	2.6	2.3
Pistachio (4/16)	3.7	3.2	2.8	2.5	3.4	2.9	2.6	2.3	3.5	3.0	2.7	2.4
Citrus (2/1)	2.2	1.9	1.7	1.5	2.0	1.7	1.5	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/12) (11 ft. row spacing)	2.8	2.4	2.1	1.9	2.6	2.2	2.0	1.8	2.6	2.3	2.0	1.8
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.2	2.8	2.5	2.2	2.9	2.5	2.2	2.0	3.1	2.7	2.3	2.1
Walnuts (4/5)	3.8	3.3	2.9	2.6	3.5	3.0	2.7	2.4	3.6	3.1	2.8	2.5
Stone Fruit (3/10)	3.5	3.0	2.7	2.4	3.2	2.8	2.4	2.2	3.4	2.9	2.6	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	#124 Panoche				#2 Five Points				#15 Stratford			
	850	732	638	567	779	661	590	519	803	685	614	543
Almonds 115 Trees/A	850	732	638	567	779	661	590	519	803	685	614	543
Pistachio 106 Trees/A	922	797	698	623	847	722	648	573	872	747	673	598
Citrus 110 Trees/A	543	469	420	370	494	420	370	346	518	444	395	346
Raisin Grapes 566 Vines/A	134	115	101	91	125	106	96	86	125	110	96	86
Winegrapes 622 Vines/A	140	122	109	96	127	109	96	87	135	118	100	92
Walnuts 76 Trees/A	1358	1179	1036	929	1251	1072	965	857	1286	1108	1000	893
Stonefruit 172 Trees/A	553	474	426	379	505	442	379	347	537	458	410	363

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