

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/18/21 through 06/24/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/18 - 6/24 Water Use	Accum'd Seasonal Water Use	6/25 - 7/1 Estimated ETc	6/18 - 6/24 Water Use	Accum'd Seasonal Water Use	6/25 - 7/1 Estimated ETc	6/18 - 6/24 Water Use	Accum'd Seasonal Water Use	6/25 - 7/1 Estimated ETc
Almonds (3/5) *	1.97	20.12	2.04	2.13	21.04	1.97	2.05	20.20	1.97
Pistachio (4/16) * **	2.11	14.03	2.17	2.27	14.86	2.10	2.19	14.17	2.10
Citrus (2/1)	1.23	18.46	1.26	1.35	19.20	1.26	1.30	18.33	1.26
Raisin Grapes (3/12) (11 ft. row spacing)	1.58	11.71	1.61	1.71	12.50	1.61	1.65	11.87	1.61
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.76	12.32	1.82	1.92	13.01	1.75	1.84	12.45	1.75
Walnuts (4/5)	1.90	15.93	2.08	2.06	16.80	2.01	1.98	16.06	2.01
Stone Fruit (3/10)	1.64	13.53	1.82	1.80	14.25	1.75	1.73	13.69	1.75
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	3.3	2.8	2.5	2.2	3.2	2.7	2.4	2.2
Pistachio (4/16)	3.2	2.8	2.5	2.2	3.5	3.0	2.7	2.4	3.4	2.9	2.6	2.3
Citrus (2/1)	1.9	1.6	1.4	1.3	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Raisin Grapes (3/12) (11 ft. row spacing)***	2.4	2.1	1.9	1.7	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.7	2.3	2.1	1.9	3.0	2.6	2.3	2.0	2.8	2.5	2.2	1.9
Walnuts (4/5)	2.9	2.5	2.2	2.0	3.2	2.7	2.4	2.2	3.0	2.6	2.3	2.1
Stone Fruit (3/10)	2.5	2.2	1.9	1.7	2.8	2.4	2.1	1.9	2.7	2.3	2.0	1.8

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	708	614	543	496	779	661	590	519	756	638	567	519
Pistachio 106 Trees/A	797	698	623	548	872	747	673	598	847	722	648	573
Citrus 110 Trees/A	469	395	346	321	518	444	395	346	494	420	370	346
Raisin Grapes 566 Vines/A	115	101	91	82	125	110	96	86	120	106	91	82
Winegrapes 622 Vines/A	118	100	92	83	131	114	100	87	122	109	96	83
Walnuts 76 Trees/A	1036	893	786	715	1143	965	857	786	1072	929	822	750
Stonefruit 172 Trees/A	395	347	300	268	442	379	332	300	426	363	316	284

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)
06/18/21 through 06/24/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	6/18- 6/24 Water Use	Accum'd Seasonal Water Use	6/25 - 7/1 Estimated ETc	6/18- 6/24 Water Use	Accum'd Seasonal Water Use	6/25 - 7/1 Estimated ETc	6/18- 6/24 Water Use	Accum'd Seasonal Water Use	6/25 - 7/1 Estimated ETc
Almonds (3/5) *	2.29	22.39	2.10	2.23	23.04	2.24	2.31	23.07	2.24
Pistachio (4/16) * **	2.46	16.23	2.24	2.37	16.30	2.31	2.45	16.44	2.31
Citrus (2/1)	1.45	20.71	1.33	1.41	21.53	1.40	1.45	21.27	1.40
Raisin Grapes (3/12) (11 ft. row spacing)	1.84	13.52	1.68	1.81	13.63	1.75	1.87	13.75	1.75
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.05	14.12	1.89	2.00	14.30	1.96	2.07	14.38	1.96
Walnuts (4/5)	2.22	18.25	2.15	2.16	18.54	2.22	2.24	18.58	2.22
Stone Fruit (3/10)	1.93	15.37	1.89	1.89	15.72	1.96	1.94	15.70	1.96
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.65			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)	3.5	3.1	2.7	2.4	3.4	3.0	2.6	2.3	3.6	3.1	2.7	2.4
Pistachio (4/16)	3.8	3.3	2.9	2.6	3.6	3.2	2.8	2.5	3.8	3.3	2.9	2.6
Citrus (2/1)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.8	2.5	2.2	1.9	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.2	2.7	2.4	2.2	3.1	2.7	2.4	2.1	3.2	2.8	2.4	2.2
Walnuts (4/5)	3.4	3.0	2.6	2.3	3.3	2.9	2.5	2.3	3.4	3.0	2.6	2.4
Stone Fruit (3/10)	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0	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	#124 Panoche				#2 Five Points				#15 Stratford			
	Almonds 115 Trees/A	826	732	638	567	803	708	614	543	850	732	638
Pistachio 106 Trees/A	947	822	722	648	897	797	698	623	947	822	722	648
Citrus 110 Trees/A	543	469	420	370	543	469	420	370	543	469	420	370
Raisin Grapes 566 Vines/A	134	120	106	91	134	115	101	91	139	120	106	96
Winegrapes 622 Vines/A	140	118	105	96	135	118	105	92	140	122	105	96
Walnuts 76 Trees/A	1215	1072	929	822	1179	1036	893	822	1215	1072	929	857
Stonefruit 172 Trees/A	474	410	363	316	458	395	347	316	474	410	363	316

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