

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
05/28/21 through 06/03/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	5/28 - 6/3 Water Use	Accum'd Seasonal Water Use	6/4 - 6/10 Estimated ETc	5/28 - 6/3 Water Use	Accum'd Seasonal Water Use	6/4 - 6/10 Estimated ETc	5/28 - 6/3 Water Use	Accum'd Seasonal Water Use	6/4 - 6/10 Estimated ETc
Almonds (3/5) *	1.77	14.54	1.76	1.89	15.11	1.76	1.80	14.56	1.74
Pistachio (4/16) * **	1.90	7.90	2.02	2.02	8.34	2.00	1.93	7.97	1.94
Citrus (2/1)	1.25	14.83	1.19	1.35	15.33	1.19	1.27	14.63	1.18
Raisin Grapes (3/12) (11 ft. row spacing)	1.48	7.11	1.46	1.59	7.60	1.44	1.52	7.20	1.40
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.50	7.35	1.53	1.58	7.68	1.51	1.52	7.41	1.46
Walnuts (4/5)	1.67	10.60	1.67	1.78	11.10	1.65	1.71	10.66	1.60
Stone Fruit (3/10)	1.44	8.88	1.44	1.53	9.28	1.44	1.48	8.93	1.43
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 >>												
Almonds (3/5)	2.7	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.4	2.1	1.9
Pistachio (4/16)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.0
Citrus (2/1)	1.9	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	2.3	2.0	1.7	1.6	2.4	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.3	2.0	1.8	1.6	2.4	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Walnuts (4/5)	2.6	2.2	2.0	1.8	2.7	2.4	2.1	1.9	2.6	2.3	2.0	1.8
Stone Fruit (3/10)	2.2	1.9	1.7	1.5	2.4	2.0	1.8	1.6	2.3	2.0	1.7	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			
	Almonds 115 Trees/A	638	567	496	449	685	590	519	472	661	567	496
Pistachio 106 Trees/A	722	623	548	498	772	673	598	523	747	648	573	498
Citrus 110 Trees/A	469	420	370	321	518	444	395	346	494	420	370	321
Raisin Grapes 566 Vines/A	110	96	82	77	115	101	91	82	110	96	86	77
Winegrapes 622 Vines/A	100	87	79	70	105	92	83	74	100	87	79	70
Walnuts 76 Trees/A	929	786	715	643	965	857	750	679	929	822	715	643
Stonefruit 172 Trees/A	347	300	268	237	379	316	284	253	363	316	268	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)
05/28/21 through 06/03/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/28 - 6/3 Water Use	Accum'd Seasonal Water Use	6/4 - 6/10 Estimated ETc	5/28 - 6/3 Water Use	Accum'd Seasonal Water Use	6/4 - 6/10 Estimated ETc	5/28 - 6/3 Water Use	Accum'd Seasonal Water Use	6/4 - 6/10 Estimated ETc
Almonds (3/5) *	2.04	15.92	1.94	2.02	16.69	1.96	2.03	16.54	1.97
Pistachio (4/16) * **	2.17	9.10	2.22	2.15	9.32	2.24	2.16	9.27	2.25
Citrus (2/1)	1.42	16.49	1.31	1.40	17.38	1.33	1.41	17.02	1.34
Raisin Grapes (3/12) (11 ft. row spacing)	1.70	8.15	1.66	1.67	8.36	1.68	1.68	8.33	1.68
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.69	8.31	1.66	1.67	8.59	1.68	1.68	8.51	1.69
Walnuts (4/5)	1.93	11.98	1.87	1.91	12.40	1.89	1.92	12.25	1.90
Stone Fruit (3/10)	1.65	9.90	1.63	1.63	10.34	1.65	1.64	10.18	1.66
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)	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1
Pistachio (4/16)	3.3	2.9	2.6	2.3	3.3	2.9	2.5	2.3	3.3	2.9	2.5	2.3
Citrus (2/1)	2.2	1.9	1.7	1.5	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.8
Walnuts (4/5)	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.0
Stone Fruit (3/10)	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7

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			
	732	638	567	496	732	638	567	496	732	638	567	496
Almonds 115 Trees/A	732	638	567	496	732	638	567	496	732	638	567	496
Pistachio 106 Trees/A	822	722	648	573	822	722	623	573	822	722	623	573
Citrus 110 Trees/A	543	469	420	370	543	469	395	370	543	469	420	370
Raisin Grapes 566 Vines/A	125	110	96	86	125	106	96	86	125	106	96	86
Winegrapes 622 Vines/A	114	100	87	79	114	100	87	79	114	96	87	79
Walnuts 76 Trees/A	1072	929	822	715	1036	893	786	715	1072	929	822	715
Stonefruit 172 Trees/A	395	347	300	268	395	347	300	268	395	347	300	268

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