

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _c) 05/22/20 through 05/28/20												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	5/22 - 5/28 Water Use	Accum'd Seasonal Water Use	5/29 - 6/4 Estimated ET _c		5/22 - 5/28 Water Use	Accum'd Seasonal Water Use	5/29 - 6/4 Estimated ET _c		5/22 - 5/28 Water Use	Accum'd Seasonal Water Use	5/29 - 6/4 Estimated ET _c	
Almonds (3/5) *	1.89	12.07	1.66		1.85	12.03	1.67		1.83	11.15	1.63	
Pistachio (4/13) * **	1.36	4.47	1.48		1.32	4.50	1.49		1.31	4.30	1.45	
Citrus (2/1)	1.39	13.50	1.17		1.36	13.12	1.18		1.34	12.33	1.14	
Raisin Grapes (3/16) (11 ft. row spacing)	1.48	4.82	1.33		1.43	4.89	1.33		1.43	4.69	1.33	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.38	5.09	1.30		1.34	5.07	1.31		1.33	4.86	1.27	
Walnuts (4/8)	1.57	6.28	1.37		1.55	6.30	1.38		1.55	6.02	1.34	
Stone Fruit (3/10)	1.46	7.23	1.37		1.44	7.22	1.38		1.42	6.75	1.34	
Past 7 days precipitation (inches)	0.00				0.00				0.00			
Accumulated precipitation (inches) (1/1/2020)	5.05				4.80				5.61			
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			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9	2.8	2.4	2.2	1.9
Pistachio (4/13)	2.1	1.8	1.6	1.4	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Citrus (2/1)	2.1	1.9	1.6	1.5	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)***	2.3	2.0	1.7	1.6	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.1	1.8	1.6	1.5	2.1	1.8	1.6	1.4	2.0	1.8	1.6	1.4
Walnuts (4/8)	2.4	2.1	1.8	1.7	2.4	2.1	1.8	1.6	2.4	2.1	1.8	1.6
Stone Fruit (3/10)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
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	685	590	519	472	661	590	519	449	661	567	519	449
Pistachio 106 Trees/A	523	448	399	349	498	448	399	349	498	424	374	349
Citrus 110 Trees/A	518	469	395	370	518	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	110	96	82	77	106	91	82	72	106	91	82	72
Winegrapes 622 Vines/A	92	79	70	65	92	79	70	61	87	79	70	61
Walnuts 76 Trees/A	857	750	643	607	857	750	643	572	857	750	643	572
Stonefruit 172 Trees/A	347	300	268	237	347	300	268	237	347	300	268	237
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)
05/22/20 through 05/28/20

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	5/22 - 5/28 Water Use	Accum'd Seasonal Water Use	5/29 - 6/4 Estimated ETc		5/22 - 5/28 Water Use	Accum'd Seasonal Water Use	5/29 - 6/4 Estimated ETc		5/22 - 5/28 Water Use	Accum'd Seasonal Water Use	5/29 - 6/4 Estimated ETc	
Almonds (3/5) *	2.00	12.49	1.86		2.00	13.42	1.93		2.03	13.58	1.93	
Pistachio (4/13) * **	1.42	4.63	1.62		1.42	4.97	1.69		1.44	5.06	1.69	
Citrus (2/1)	1.46	13.80	1.28		1.46	14.78	1.35		1.48	14.76	1.35	
Raisin Grapes (3/16) (11 ft. row spacing)	1.47	4.59	1.44		1.47	4.91	1.51		1.48	5.04	1.51	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.36	4.94	1.37		1.37	5.27	1.40		1.40	5.31	1.40	
Walnuts (4/8)	1.68	6.57	1.51		1.67	7.05	1.58		1.70	7.17	1.58	
Stone Fruit (3/10)	1.55	7.53	1.51		1.54	8.00	1.58		1.57	8.14	1.58	
Past 7 days precipitation (inches)		0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2020)		2.68				4.05				3.13		

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 >>												
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 (4/13)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5
Citrus (2/1)	2.2	1.9	1.7	1.5	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.6
Raisin Grapes (3/16) (11 ft. row spacing)	2.3	2.0	1.7	1.5	2.3	2.0	1.7	1.5	2.3	2.0	1.7	1.6
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	2.2	1.9	1.6	1.5
Walnuts (4/8)	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8	2.6	2.3	2.0	1.8
Stone Fruit (3/10)	2.4	2.1	1.8	1.6	2.4	2.1	1.8	1.6	2.4	2.1	1.8	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			
Almonds 115 Trees/A	732	638	567	496	732	638	567	496	732	638	567	496
Pistachio 106 Trees/A	548	473	424	374	548	473	424	374	548	473	424	374
Citrus 110 Trees/A	543	469	420	370	543	469	420	370	568	494	420	395
Raisin Grapes 566 Vines/A	110	96	82	72	110	96	82	72	110	96	82	77
Winegrapes 622 Vines/A	92	79	70	61	92	79	70	61	96	83	70	65
Walnuts 76 Trees/A	929	786	715	643	929	786	715	643	929	822	715	643
Stonefruit 172 Trees/A	379	332	284	253	379	332	284	253	379	332	284	268

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