

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _c) 05/14/21 through 05/20/21												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	5/14 - 5/20	Accum'd	5/21 - 5/27		5/14 - 5/20	Accum'd	5/21 - 5/27		5/14 - 5/20	Accum'd	5/21 - 5/27	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ET _c		Use	Water Use	ET _c		Use	Water Use	ET _c	
Almonds (3/5) *	1.52	11.15	1.56		1.62	11.49	1.58		1.57	11.11	1.52	
Pistachio (4/16) * **	1.26	4.41	1.53		1.36	4.62	1.55		1.30	4.42	1.49	
Citrus (2/1)	1.16	12.40	1.14		1.25	12.72	1.16		1.20	12.16	1.10	
Raisin Grapes (3/12) (11 ft. row spacing)	1.16	4.33	1.21		1.26	4.59	1.23		1.20	4.35	1.17	
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.07	4.63	1.12		1.15	4.78	1.12		1.12	4.63	1.10	
Walnuts (4/5)	1.41	7.47	1.42		1.52	7.75	1.44		1.47	7.46	1.38	
Stone Fruit (3/10)	1.10	6.19	1.19		1.17	6.41	1.21		1.14	6.18	1.17	
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			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	2.3	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.4	2.1	1.8	1.7
Pistachio (4/16)	1.9	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.0	1.7	1.5	1.4
Citrus (2/1)	1.8	1.5	1.4	1.2	1.9	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	1.8	1.5	1.4	1.2	1.9	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.6	1.4	1.3	1.1	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2
Walnuts (4/5)	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6	2.3	2.0	1.7	1.5
Stone Fruit (3/10)	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.2	1.8	1.5	1.3	1.2
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	543	472	425	378	590	519	449	401	567	496	425	401
Pistachio 106 Trees/A	473	424	374	324	523	448	399	349	498	424	374	349
Citrus 110 Trees/A	444	370	346	296	469	420	370	321	444	395	346	321
Raisin Grapes 566 Vines/A	86	72	67	58	91	82	72	62	86	77	67	62
Winegrapes 622 Vines/A	70	61	57	48	79	65	61	52	74	65	57	52
Walnuts 76 Trees/A	786	679	607	536	822	715	643	572	822	715	607	536
Stonefruit 172 Trees/A	268	237	205	189	284	253	221	189	284	237	205	189
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)
05/14/21 through 05/20/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	5/14 - 5/20 Water Use	Accum'd Seasonal Water Use	5/21 - 5/27 Estimated ETc	5/14 - 5/20 Water Use	Accum'd Seasonal Water Use	5/21 - 5/27 Estimated ETc	5/14 - 5/20 Water Use	Accum'd Seasonal Water Use	5/21 - 5/27 Estimated ETc
Almonds (3/5) *	1.77	12.01	1.69	1.80	12.77	1.77	1.80	12.58	1.77
Pistachio (4/16) * **	1.50	5.08	1.67	1.53	5.29	1.75	1.52	5.20	1.75
Citrus (2/1)	1.37	13.71	1.25	1.39	14.58	1.32	1.39	14.20	1.32
Raisin Grapes (3/12) (11 ft. row spacing)	1.38	4.94	1.32	1.40	5.16	1.39	1.39	5.07	1.39
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.25	5.16	1.25	1.27	5.44	1.28	1.28	5.32	1.28
Walnuts (4/5)	1.67	8.33	1.54	1.69	8.75	1.62	1.69	8.56	1.62
Stone Fruit (3/10)	1.29	6.79	1.31	1.30	7.22	1.39	1.32	7.03	1.39
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)	2.7	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9
Pistachio (4/16)	2.3	2.0	1.8	1.6	2.4	2.0	1.8	1.6	2.3	2.0	1.8	1.6
Citrus (2/1)	2.1	1.8	1.6	1.4	2.1	1.9	1.6	1.5	2.1	1.9	1.6	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.1	1.8	1.6	1.5	2.2	1.9	1.6	1.5	2.1	1.9	1.6	1.5
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Walnuts (4/5)	2.6	2.2	2.0	1.8	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Stone Fruit (3/10)	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4

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			
	638	567	496	449	661	567	496	449	661	567	496	449
Almonds 115 Trees/A	638	567	496	449	661	567	496	449	661	567	496	449
Pistachio 106 Trees/A	573	498	448	399	598	498	448	399	573	498	448	399
Citrus 110 Trees/A	518	444	395	346	518	469	395	370	518	469	395	370
Raisin Grapes 566 Vines/A	101	86	77	72	106	91	77	72	101	91	77	72
Winegrapes 622 Vines/A	83	74	65	57	83	74	65	57	87	74	65	57
Walnuts 76 Trees/A	929	786	715	643	929	822	715	643	929	822	715	643
Stonefruit 172 Trees/A	316	268	237	221	316	268	237	221	316	284	253	221

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