

**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
08/28/20 through 09/03/20

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/28 - 9/3 Water Use	Accum'd Seasonal Water Use	9/4 - 9/10 Estimated ETc	8/28 - 9/3 Water Use	Accum'd Seasonal Water Use	9/4 - 9/10 Estimated ETc	8/28 - 9/3 Water Use	Accum'd Seasonal Water Use	9/4 - 9/10 Estimated ETc
Almonds (3/5) *	1.53	37.97	1.51	1.64	39.17	1.43	1.43	36.55	1.43
Pistachio (4/13) * **	1.58	31.03	1.58	1.66	32.27	1.50	1.47	30.34	1.50
Citrus (2/1)	0.98	29.77	1.04	1.02	30.13	1.00	0.91	28.26	1.00
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.21	25.52	1.23	1.26	26.47	1.15	1.12	24.96	1.15
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***	1.37	28.08	1.37	1.45	29.16	1.29	1.27	27.35	1.29
Walnuts (4/8)	1.65	31.09	1.61	1.73	32.34	1.53	1.54	30.35	1.53
Stone Fruit (3/10 )	1.58	31.48	1.58	1.66	32.70	1.50	1.47	30.56	1.50
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 <sup>1</sup>**

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)	2.4	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.2	1.9	1.7	1.5
Pistachio (4/13)	2.4	2.1	1.9	1.7	2.6	2.2	2.0	1.7	2.3	2.0	1.7	1.5
Citrus (2/1)	1.5	1.3	1.2	1.0	1.6	1.4	1.2	1.1	1.4	1.2	1.1	1.0
Raisin Grapes (3/16 ) (11 ft. row spacing)***	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.7	1.5	1.3	1.2
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***	2.1	1.8	1.6	1.4	2.2	1.9	1.7	1.5	2.0	1.7	1.5	1.3
Walnuts (4/8)	2.5	2.2	1.9	1.7	2.7	2.3	2.0	1.8	2.4	2.1	1.8	1.6
Stone Fruit (3/10 )	2.4	2.1	1.9	1.7	2.6	2.2	2.0	1.7	2.3	2.0	1.7	1.5

<sup>1</sup> 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			
	567	472	425	378	590	519	449	401	519	449	401	354
Almonds 115 Trees/A	567	472	425	378	590	519	449	401	519	449	401	354
Pistachio 106 Trees/A	598	523	473	424	648	548	498	424	573	498	424	374
Citrus 110 Trees/A	370	321	296	247	395	346	296	272	346	296	272	247
Raisin Grapes 566 Vines/A	91	77	67	62	91	82	72	62	82	72	62	58
Winegrapes 622 Vines/A	92	79	70	61	96	83	74	65	87	74	65	57
Walnuts 76 Trees/A	893	786	679	607	965	822	715	643	857	750	643	572
Stonefruit 172 Trees/A	379	332	300	268	410	347	316	268	363	316	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<sub>c</sub>)

08/28/20 through 09/03/20

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford			
	8/28- 9/3 Water Use	Accum'd Seasonal Water Use	9/4- 9/10 Estimated ETc		8/28- 9/3 Water Use	Accum'd Seasonal Water Use	9/4- 9/10 Estimated ETc		8/28- 9/3 Water Use	Accum'd Seasonal Water Use	9/4- 9/10 Estimated ETc	
Almonds (3/5) *	1.69	41.21	1.50		1.85	41.99	1.71		1.81	42.91	1.68	
Pistachio (4/13) * **	1.73	34.00	1.57		1.88	34.17	1.72		1.84	34.99	1.69	
Citrus (2/1)	1.08	31.79	1.07		1.20	32.71	1.18		1.17	33.18	1.15	
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.33	27.43	1.22		1.43	27.60	1.30		1.39	28.32	1.28	
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.51	30.24	1.36		1.64	30.44	1.51		1.60	31.11	1.48	
Walnuts (4/8)	1.80	34.08	1.60		1.95	34.48	1.75		1.91	35.27	1.72	
Stone Fruit (3/10 )	1.73	34.53	1.57		1.88	34.88	1.72		1.84	35.70	1.69	
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00			
<b>Accumulated precipitation (inches) (1/1/2020)</b>	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 <sup>1</sup>**

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)	2.6	2.3	2.0	1.8	2.8	2.5	2.2	1.9	2.8	2.4	2.1	1.9
Pistachio (4/13)	2.7	2.3	2.0	1.8	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Citrus (2/1)	1.7	1.4	1.3	1.1	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.2
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.0	1.8	1.6	1.4	2.2	1.9	1.7	1.5	2.1	1.9	1.6	1.5
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	2.3	2.0	1.8	1.6	2.5	2.2	1.9	1.7	2.5	2.1	1.9	1.7
Walnuts (4/8)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0
Stone Fruit (3/10 )	2.7	2.3	2.0	1.8	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9

<sup>1</sup> 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	614	543	472	425	661	590	519	449	661	567	496
Pistachio 106 Trees/A	673	573	498	448	722	623	548	498	698	623	548	473
Citrus 110 Trees/A	420	346	321	272	444	395	346	321	444	395	346	296
Raisin Grapes 566 Vines/A	96	86	77	67	106	91	82	72	101	91	77	72
Winegrapes 622 Vines/A	100	87	79	70	109	96	83	74	109	92	83	74
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	750	1036	893	786	715
Stonefruit 172 Trees/A	426	363	316	284	458	395	347	316	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.