

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/13/21 through 08/19/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/13 - 8/19 Water Use	Accum'd Seasonal Water Use	8/20 - 8/26 Estimated ETc	8/13 - 8/19 Water Use	Accum'd Seasonal Water Use	8/20 - 8/26 Estimated ETc	8/13 - 8/19 Water Use	Accum'd Seasonal Water Use	8/20 - 8/26 Estimated ETc
Almonds (3/5) *	1.59	35.31	1.79	1.89	37.70	1.70	1.63	35.25	1.72
Pistachio (4/16) * **	1.61	29.74	1.79	1.94	32.07	1.70	1.64	29.69	1.72
Citrus (2/1)	0.95	27.73	1.09	1.13	29.36	1.00	0.98	27.51	1.02
Raisin Grapes (3/12) (11 ft. row spacing)	1.23	23.68	1.37	1.48	25.61	1.28	1.25	23.68	1.30
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.39	25.88	1.58	1.68	27.96	1.49	1.43	25.87	1.51
Walnuts (4/5)	1.62	31.98	1.79	1.93	34.33	1.70	1.65	31.91	1.72
Stone Fruit (3/10)	1.61	28.29	1.79	1.94	30.53	1.70	1.64	28.28	1.72
Past 7 days precipitation (inches)	0.00			0.00			0.19		
Accumulated precipitation (inches) (1/1/2021)	5.54			3.66			4.21		

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)	2.4	2.1	1.9	1.7	2.9	2.5	2.2	2.0	2.5	2.2	1.9	1.7
Pistachio (4/16)	2.5	2.1	1.9	1.7	3.0	2.6	2.3	2.0	2.5	2.2	1.9	1.7
Citrus (2/1)	1.5	1.3	1.1	1.0	1.7	1.5	1.3	1.2	1.5	1.3	1.2	1.0
Raisin Grapes (3/12) (11 ft. row spacing)***	1.9	1.6	1.4	1.3	2.3	2.0	1.7	1.6	1.9	1.7	1.5	1.3
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.1	1.9	1.6	1.5	2.6	2.2	2.0	1.8	2.2	1.9	1.7	1.5
Walnuts (4/5)	2.5	2.2	1.9	1.7	3.0	2.6	2.3	2.0	2.5	2.2	1.9	1.7
Stone Fruit (3/10)	2.5	2.1	1.9	1.7	3.0	2.6	2.3	2.0	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	567	496	449	401	685	590	519	472	590	519	449	401
Pistachio 106 Trees/A	623	523	473	424	747	648	573	498	623	548	473	424
Citrus 110 Trees/A	370	321	272	247	420	370	321	296	370	321	296	247
Raisin Grapes 566 Vines/A	91	77	67	62	110	96	82	77	91	82	72	62
Winegrapes 622 Vines/A	92	83	70	65	114	96	87	79	96	83	74	65
Walnuts 76 Trees/A	893	786	679	607	1072	929	822	715	893	786	679	607
Stonefruit 172 Trees/A	395	332	300	268	474	410	363	316	395	347	300	268

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)
 08/13/21 through 08/19/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/13 - 8/19 Water Use	Accum'd Seasonal Water Use	8/20- 8/26 Estimated ETc	8/13 - 8/19 Water Use	Accum'd Seasonal Water Use	8/20- 8/26 Estimated ETc	8/13 - 8/19 Water Use	Accum'd Seasonal Water Use	8/20- 8/26 Estimated ETc
Almonds (3/5) *	1.87	40.33	1.76	1.87	40.52	1.93	1.93	41.38	1.91
Pistachio (4/16) * **	1.93	34.65	1.76	1.93	34.30	2.00	2.00	35.29	1.98
Citrus (2/1)	1.13	31.62	1.08	1.14	32.21	1.18	1.18	32.43	1.16
Raisin Grapes (3/12) (11 ft. row spacing)	1.46	27.57	1.34	1.47	27.35	1.51	1.52	28.14	1.49
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.67	30.19	1.55	1.67	29.98	1.72	1.73	30.79	1.70
Walnuts (4/5)	1.91	37.03	1.76	1.91	36.90	1.93	1.97	37.78	1.91
Stone Fruit (3/10)	1.93	32.87	1.76	1.93	32.81	2.00	2.00	33.61	1.98
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.72			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)	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.0
Pistachio (4/16)	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.0	3.1	2.7	2.4	2.1
Citrus (2/1)	1.7	1.5	1.3	1.2	1.8	1.5	1.3	1.2	1.8	1.6	1.4	1.2
Raisin Grapes (3/12) (11 ft. row spacing)	2.2	1.9	1.7	1.5	2.3	2.0	1.7	1.5	2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.6	2.2	2.0	1.8	2.6	2.2	2.0	1.8	2.7	2.3	2.0	1.8
Walnuts (4/5)	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1
Stone Fruit (3/10)	3.0	2.6	2.3	2.0	3.0	2.6	2.3	2.0	3.1	2.7	2.4	2.1

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	685	590	519	472	685	590	519	472	708	614	543
Pistachio 106 Trees/A	747	648	573	498	747	648	573	498	772	673	598	523
Citrus 110 Trees/A	420	370	321	296	444	370	321	296	444	395	346	296
Raisin Grapes 566 Vines/A	106	91	82	72	110	96	82	72	110	96	86	77
Winegrapes 622 Vines/A	114	96	87	79	114	96	87	79	118	100	87	79
Walnuts 76 Trees/A	1036	893	786	715	1036	893	786	715	1072	929	822	750
Stonefruit 172 Trees/A	474	410	363	316	474	410	363	316	489	426	379	332

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