

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/25/21 through 07/01/21

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	6/25 - 7/1 Water Use	Accum'd Seasonal Water Use	7/2- 7/8 Estimated ETc		6/25 - 7/1 Water Use	Accum'd Seasonal Water Use	7/2- 7/8 Estimated ETc		6/25 - 7/1 Water Use	Accum'd Seasonal Water Use	7/2- 7/8 Estimated ETc
Almonds (3/5) *	2.11	22.24	2.10		2.14	23.18	2.03		1.81	22.01	2.03
Pistachio (4/16) * **	2.22	16.26	2.17		2.24	17.10	2.10		1.91	16.08	2.10
Citrus (2/1)	1.31	19.78	1.26		1.33	20.53	1.26		1.14	19.47	1.26
Raisin Grapes (3/12) (11 ft. row spacing)	1.70	13.42	1.68		1.70	14.20	1.61		1.46	13.33	1.61
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.88	14.21	1.89		1.91	14.92	1.82		1.63	14.08	1.82
Walnuts (4/5)	2.13	18.07	2.24		2.15	18.95	2.17		1.82	17.88	2.17
Stone Fruit (3/10)	1.87	15.41	1.82		1.89	16.14	1.75		1.62	15.31	1.75
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 >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	3.2	2.8	2.5	2.2		3.3	2.9	2.5	2.3		2.8	2.4	2.1	1.9
Pistachio (4/16)	3.4	3.0	2.6	2.3		3.4	3.0	2.6	2.4		2.9	2.5	2.2	2.0
Citrus (2/1)	2.0	1.7	1.5	1.4		2.0	1.8	1.6	1.4		1.8	1.5	1.3	1.2
Raisin Grapes (3/12) (11 ft. row spacing)***	2.6	2.3	2.0	1.8		2.6	2.3	2.0	1.8		2.2	1.9	1.7	1.5
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.9	2.5	2.2	2.0		2.9	2.5	2.2	2.0		2.5	2.2	1.9	1.7
Walnuts (4/5)	3.3	2.8	2.5	2.2		3.3	2.9	2.5	2.3		2.8	2.4	2.1	1.9
Stone Fruit (3/10)	2.9	2.5	2.2	2.0		2.9	2.5	2.2	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			
	756	661	590	519		779	685	590	543		661	567	496	449
Almonds 115 Trees/A	756	661	590	519		779	685	590	543		661	567	496	449
Pistachio 106 Trees/A	847	747	648	573		847	747	648	598		722	623	548	498
Citrus 110 Trees/A	494	420	370	346		494	444	395	346		444	370	321	296
Raisin Grapes 566 Vines/A	125	110	96	86		125	110	96	86		106	91	82	72
Winegrapes 622 Vines/A	127	109	96	87		127	109	96	87		109	96	83	74
Walnuts 76 Trees/A	1179	1000	893	786		1179	1036	893	822		1000	857	750	679
Stonefruit 172 Trees/A	458	395	347	316		458	395	347	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)

06/25/21 through 07/01/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	6/25- 7/1 Water Use	Accum'd Seasonal Water Use	7/2- 7/8 Estimated ETc	6/25- 7/1 Water Use	Accum'd Seasonal Water Use	7/2- 7/8 Estimated ETc	6/25- 7/1 Water Use	Accum'd Seasonal Water Use	7/2- 7/8 Estimated ETc
Almonds (3/5) *	2.27	24.66	2.14	2.28	25.32	2.20	2.45	25.52	2.24
Pistachio (4/16) * **	2.36	18.59	2.21	2.37	18.67	2.27	2.54	18.98	2.31
Citrus (2/1)	1.40	22.11	1.30	1.41	22.94	1.36	1.50	22.77	1.40
Raisin Grapes (3/12) (11 ft. row spacing)	1.80	15.32	1.68	1.81	15.44	1.71	1.94	15.69	1.75
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.01	16.13	1.89	2.02	16.32	1.92	2.17	16.55	1.96
Walnuts (4/5)	2.27	20.52	2.28	2.28	20.82	2.34	2.45	21.03	2.38
Stone Fruit (3/10)	2.01	17.38	1.86	2.02	17.74	1.92	2.17	17.87	1.96
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)	3.5	3.0	2.7	2.4	3.5	3.0	2.7	2.4	3.8	3.3	2.9	2.6
Pistachio (4/16)	3.6	3.1	2.8	2.5	3.6	3.2	2.8	2.5	3.9	3.4	3.0	2.7
Citrus (2/1)	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6
Raisin Grapes (3/12) (11 ft. row spacing)	2.8	2.4	2.1	1.9	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	3.3	2.9	2.6	2.3
Walnuts (4/5)	3.5	3.0	2.7	2.4	3.5	3.0	2.7	2.4	3.8	3.3	2.9	2.6
Stone Fruit (3/10)	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	3.3	2.9	2.6	2.3

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	826	708	638	567	826	708	638	567	897	779	685
Pistachio 106 Trees/A	897	772	698	623	897	797	698	623	972	847	747	673
Citrus 110 Trees/A	543	469	395	370	543	469	420	370	568	494	444	395
Raisin Grapes 566 Vines/A	134	115	101	91	134	115	101	91	144	125	110	96
Winegrapes 622 Vines/A	135	118	105	92	135	118	105	92	144	127	114	100
Walnuts 76 Trees/A	1251	1072	965	857	1251	1072	965	857	1358	1179	1036	929
Stonefruit 172 Trees/A	489	426	379	332	489	426	379	332	521	458	410	363

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