



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

07/15/22 through 07/21/22

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	7/15- 7/21 Water Use	Accum'd Seasonal Water Use	7/22- 7/28 Estimated ETc		7/15- 7/21 Water Use	Accum'd Seasonal Water Use	7/22- 7/28 Estimated ETc		7/15- 7/21 Water Use	Accum'd Seasonal Water Use	7/22- 7/28 Estimated ETc
Almonds (3/1) *	2.23	28.55	2.24		2.18	29.13	2.17		1.98	27.45	2.10
Pistachio (4/8) * **	2.29	23.33	2.31		2.24	23.87	2.24		2.04	22.39	2.17
Citrus (2/1)	1.36	23.53	1.40		1.34	24.03	1.33		1.20	22.84	1.26
Raisin Grapes (3/15) (11 ft. row spacing)	1.48	15.56	1.49		1.45	15.92	1.43		1.33	14.89	1.43
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.71	16.72	1.73		1.67	17.08	1.67		1.50	15.98	1.61
Walnuts (4/8)	2.36	23.96	2.38		2.31	24.58	2.31		2.11	23.11	2.24
Stone Fruit (3/10)	2.19	21.61	2.30		2.16	22.01	2.22		1.91	20.62	2.15
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.98				1.84				1.82		

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 (3/1)	3.4	3.0	2.6	2.3		3.4	2.9	2.6	2.3		3.0	2.6	2.3	2.1
Pistachio (4/8)	3.5	3.1	2.7	2.4		3.4	3.0	2.6	2.4		3.1	2.7	2.4	2.1
Citrus (2/1)	2.1	1.8	1.6	1.4		2.1	1.8	1.6	1.4		1.8	1.6	1.4	1.3
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.6		Assume all grape			1.5		Assume all grape			1.4
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.8		irrigation type is drip			1.8		irrigation type is drip			1.6
Walnuts (4/8)	3.6	3.1	2.8	2.5		3.6	3.1	2.7	2.4		3.2	2.8	2.5	2.2
Stone Fruit (3/10)	3.4	2.9	2.6	2.3		3.3	2.9	2.5	2.3		2.9	2.5	2.2	2.0

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			
	803	708	614	543		803	685	614	543		708	614	543	496
Almonds 115 Trees/A	803	708	614	543		803	685	614	543		708	614	543	496
Pistachio 106 Trees/A	872	772	673	598		847	747	648	598		772	673	598	523
Citrus 110 Trees/A	518	444	395	346		518	444	395	346		444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			77		Assume all grape			72		Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			79		irrigation type is drip			79		irrigation type is drip			70
Walnuts 76 Trees/A	1286	1108	1000	893		1286	1108	965	857		1143	1000	893	786
Stonefruit 172 Trees/A	537	458	410	363		521	458	395	363		458	395	347	316

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.



Kern UCCE/DWR Weekly
Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
07/15/22 through 07/21/22

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	7/15- 7/21 Water Use	Accum'd Seasonal Water Use	7/22 - 7/28 Estimated ETc		7/15- 7/21 Water Use	Accum'd Seasonal Water Use	7/22 - 7/28 Estimated ETc		7/15- 7/21 Water Use	Accum'd Seasonal Water Use	7/22 - 7/28 Estimated ETc
Almonds (3/1) *	2.42	32.15	2.31		2.43	33.24	2.42		2.51	33.84	2.49
Pistachio (4/8) * **	2.43	25.87	2.38		2.44	26.62	2.45		2.54	27.12	2.52
Citrus (2/1)	1.45	26.18	1.40		1.44	27.18	1.47		1.50	27.35	1.47
Raisin Grapes (3/15) (11 ft. row spacing)	1.60	17.21	1.55		1.61	17.77	1.61		1.65	18.10	1.67
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.81	18.42	1.79		1.82	18.92	1.84		1.89	19.30	1.90
Walnuts (4/8)	2.52	26.66	2.45		2.56	27.53	2.52		2.64	28.08	2.66
Stone Fruit (3/10)	2.35	24.01	2.37		2.36	24.73	2.44		2.44	25.18	2.51
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	1.23				1.11				1.30		

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 (3/1)	3.7	3.2	2.8	2.5		3.7	3.2	2.9	2.6		3.9	3.3	3.0	2.6
Pistachio (4/8)	3.7	3.2	2.9	2.6		3.8	3.3	2.9	2.6		3.9	3.4	3.0	2.7
Citrus (2/1)	2.2	1.9	1.7	1.5		2.2	1.9	1.7	1.5		2.3	2.0	1.8	1.6
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.7		Assume all grape			1.7		Assume all grape			1.7
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.9		irrigation type is drip			1.9		irrigation type is drip			2.0
Walnuts (4/8)	3.9	3.4	3.0	2.7		3.9	3.4	3.0	2.7		4.1	3.5	3.1	2.8
Stone Fruit (3/10)	3.6	3.1	2.8	2.5		3.6	3.1	2.8	2.5		3.8	3.3	2.9	2.6

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	874	756	661	590		874	756	685	614		921	779	708	614
Pistachio 106 Trees/A	922	797	722	648		947	822	722	648		972	847	747	673
Citrus 110 Trees/A	543	469	420	370		543	469	420	370		568	494	444	395
Raisin Grapes 566 Vines/A	Assume all grape			82		Assume all grape			82		Assume all grape			82
Winegrapes 622 Vines/A	irrigation type is drip			83		irrigation type is drip			83		irrigation type is drip			87
Walnuts 76 Trees/A	1393	1215	1072	965		1393	1215	1072	965		1465	1251	1108	1000
Stonefruit 172 Trees/A	568	489	442	395		568	489	442	395		600	521	458	410

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.