



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
08/09/24 through 08/15/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	08/09 - 08/15 Water Use	Accum'd Seasonal Water Use	08/16 - 08/22 Estimated ETc	08/09 - 08/15 Water Use	Accum'd Seasonal Water Use	08/16 - 08/22 Estimated ETc	08/09 - 08/15 Water Use	Accum'd Seasonal Water Use	08/16 - 08/22 Estimated ETc
Almonds (3/1) *	1.88	34.15	1.81	2.04	35.73	1.74	1.92	34.60	1.66
Pistachio (4/20) * **	1.94	26.70	1.81	2.11	27.96	1.74	1.98	27.08	1.67
Citrus (2/1)	1.12	25.63	1.11	1.26	26.99	1.04	1.16	26.08	0.98
Raisin Grapes (3/11) (11 ft. row spacing)	1.24	19.30	1.18	1.38	20.23	1.12	1.28	19.59	1.07
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	1.42	21.06	1.36	1.56	22.12	1.30	1.45	21.40	1.24
Walnuts (4/20)	2.01	24.51	1.88	2.18	25.76	1.81	2.05	24.94	1.74
Stone Fruit (3/11)	1.94	26.63	1.81	2.11	28.05	1.74	1.98	27.12	1.67
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2024)	14.98			8.98			9.71		

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)	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.0
Pistachio (4/20)	3.0	2.6	2.3	2.0	3.2	2.8	2.5	2.2	3.0	2.6	2.3	2.1
Citrus (2/1)	1.7	1.5	1.3	1.2	1.9	1.7	1.5	1.3	1.8	1.5	1.4	1.2
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			1.3	Assume all grape			1.4	Assume all grape			1.3
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.5	irrigation type is drip			1.6	irrigation type is drip			1.5
Walnuts (4/20)	3.1	2.7	2.4	2.1	3.4	2.9	2.6	2.3	3.2	2.7	2.4	2.2
Stone Fruit (3/11)	3.0	2.6	2.3	2.0	3.2	2.8	2.5	2.2	3.0	2.6	2.3	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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	685	590	519	472	732	638	567	496	708	614	543	472
Pistachio 106 Trees/A	747	648	573	498	797	698	623	548	747	648	573	523
Citrus 110 Trees/A	420	370	321	296	469	420	370	321	444	370	346	296
Raisin Grapes 566 Vines/A	Assume all grape			62	Assume all grape			67	Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			70	irrigation type is drip			65
Walnuts 76 Trees/A	1108	965	857	750	1215	1036	929	822	1143	965	857	786
Stonefruit 172 Trees/A	474	410	363	316	505	442	395	347	474	410	363	332

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)
08/09/24 through 08/15/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	08/09- 08/15 Water Use	Accum'd Seasonal Water Use	08/16- 08/22 Estimated ETc		08/09- 08/15 Water Use	Accum'd Seasonal Water Use	08/16- 08/22 Estimated ETc		08/09- 08/15 Water Use	Accum'd Seasonal Water Use	08/16- 08/22 Estimated ETc
Almonds (3/1) *	2.15	36.84	1.80		1.91	37.43	1.96		2.21	34.96	1.94
Pistachio (4/20) * **	2.22	29.30	1.80		1.96	29.65	2.03		2.28	27.75	2.01
Citrus (2/1)	1.30	27.97	1.12		1.15	28.62	1.21		1.36	26.76	1.19
Raisin Grapes (3/11) (11 ft. row spacing)	1.45	21.09	1.17		1.27	21.40	1.31		1.47	19.93	1.29
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.65	23.04	1.35		1.45	23.28	1.49		1.70	21.80	1.47
Walnuts (4/20)	2.29	26.98	1.87		2.03	27.27	2.10		2.35	25.71	2.08
Stone Fruit (3/11)	2.22	29.48	1.80		1.96	29.74	2.03		2.28	27.92	2.01
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2024)	6.60				6.86				5.43		

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 >>														
Almonds (3/1)	3.3	2.9	2.5	2.3		2.9	2.5	2.2	2.0		3.4	2.9	2.6	2.3
Pistachio (4/20)	3.4	3.0	2.6	2.3		3.0	2.6	2.3	2.1		3.5	3.0	2.7	2.4
Citrus (2/1)	2.0	1.7	1.5	1.4		1.8	1.5	1.4	1.2		2.1	1.8	1.6	1.4
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.5		Assume all grape			1.3		Assume all grape			1.5
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.7		irrigation type is drip			1.5		irrigation type is drip			1.8
Walnuts (4/20)	3.5	3.1	2.7	2.4		3.1	2.7	2.4	2.1		3.6	3.1	2.8	2.5
Stone Fruit (3/11)	3.4	3.0	2.6	2.3		3.0	2.6	2.3	2.1		3.5	3.0	2.7	2.4

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			
Almonds 115 Trees/A	779	685	590	543		685	590	519	472		803	685	614	543
Pistachio 106 Trees/A	847	747	648	573		747	648	573	523		872	747	673	598
Citrus 110 Trees/A	494	420	370	346		444	370	346	296		518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72		Assume all grape			62		Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			74		irrigation type is drip			65		irrigation type is drip			79
Walnuts 76 Trees/A	1251	1108	965	857		1108	965	857	750		1286	1108	1000	893
Stonefruit 172 Trees/A	537	474	410	363		474	410	363	332		553	474	426	379

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