



**WEEKLY SOIL MOISTURE LOSS IN INCHES**  
(Estimated Crop Evapotranspiration or ET<sub>c</sub>)  
07/26/24 through 08/01/24

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	07/26 - 08/01 Water Use	Accum'd Seasonal Water Use	08/02 - 08/08 Estimated ETc		07/26 - 08/01 Water Use	Accum'd Seasonal Water Use	08/02 - 08/08 Estimated ETc		07/26 - 08/01 Water Use	Accum'd Seasonal Water Use	08/02 - 08/08 Estimated ETc
Almonds (3/1) *	1.99	30.33	1.94		2.03	31.80	1.85		1.98	30.87	1.82
Pistachio (4/20) * **	2.06	22.75	2.01		2.10	23.90	1.88		2.05	23.23	1.82
Citrus (2/1)	1.22	23.34	1.17		1.24	24.58	1.12		1.20	23.82	1.12
Raisin Grapes (3/11) (11 ft. row spacing)	1.33	16.76	1.29		1.36	17.58	1.22		1.32	17.10	1.19
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.51	18.17	1.47		1.55	19.12	1.39		1.50	18.57	1.37
Walnuts (4/20)	2.13	20.42	2.08		2.17	21.56	1.95		2.12	20.96	1.89
Stone Fruit (3/11)	2.06	22.68	2.01		2.10	23.99	1.88		2.05	23.27	1.82
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 <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 (3/1)	3.1	2.7	2.3	2.1		3.1	2.7	2.4	2.1		3.0	2.6	2.3	2.1
Pistachio (4/20)	3.2	2.7	2.4	2.2		3.2	2.8	2.5	2.2		3.2	2.7	2.4	2.2
Citrus (2/1)	1.9	1.6	1.4	1.3		1.9	1.7	1.5	1.3		1.8	1.6	1.4	1.3
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.4		Assume all grape			1.4		Assume all grape			1.4
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.6		irrigation type is drip			1.6		irrigation type is drip			1.6
Walnuts (4/20)	3.3	2.8	2.5	2.2		3.3	2.9	2.6	2.3		3.3	2.8	2.5	2.2
Stone Fruit (3/11)	3.2	2.7	2.4	2.2		3.2	2.8	2.5	2.2		3.2	2.7	2.4	2.2

<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			
	732	638	543	496		732	638	567	496		708	614	543	496
Almonds 115 Trees/A	732	638	543	496		732	638	567	496		708	614	543	496
Pistachio 106 Trees/A	797	673	598	548		797	698	623	548		797	673	598	548
Citrus 110 Trees/A	469	395	346	321		469	420	370	321		444	395	346	321
Raisin Grapes 566 Vines/A	Assume all grape			67		Assume all grape			67		Assume all grape			67
Winegrapes 622 Vines/A	irrigation type is drip			70		irrigation type is drip			70		irrigation type is drip			70
Walnuts 76 Trees/A	1179	1000	893	786		1179	1036	929	822		1179	1000	893	786
Stonefruit 172 Trees/A	505	426	379	347		505	442	395	347		505	426	379	347

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>)

07/26/24 through 08/01/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	07/26- 08/01 Water Use	Accum'd Seasonal Water Use	08/02- 08/08 Estimated ETc		07/26- 08/01 Water Use	Accum'd Seasonal Water Use	08/02- 08/08 Estimated ETc		07/26- 08/01 Water Use	Accum'd Seasonal Water Use	08/02- 08/08 Estimated ETc
Almonds (3/1) *	2.10	32.66	1.93		2.11	33.56	2.08		2.17	30.67	2.08
Pistachio (4/20) * **	2.17	24.99	2.00		2.18	25.67	2.15		2.24	23.32	2.15
Citrus (2/1)	1.28	25.42	1.16		1.28	26.27	1.26		1.33	24.13	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	1.41	18.28	1.28		1.41	18.82	1.41		1.45	17.07	1.41
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.61	19.82	1.46		1.62	20.34	1.59		1.67	18.50	1.59
Walnuts (4/20)	2.24	22.53	2.07		2.25	23.15	2.22		2.31	21.15	2.22
Stone Fruit (3/11)	2.17	25.17	2.00		2.18	25.76	2.15		2.24	23.49	2.11
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00		
<b>Accumulated precipitation (inches) (1/1/2024)</b>	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 <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 >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/1)	3.2	2.8	2.5	2.2		3.2	2.8	2.5	2.2		3.3	2.9	2.6	2.3
Pistachio (4/20)	3.3	2.9	2.6	2.3		3.4	2.9	2.6	2.3		3.4	3.0	2.6	2.4
Citrus (2/1)	2.0	1.7	1.5	1.3		2.0	1.7	1.5	1.3		2.0	1.8	1.6	1.4
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.5		Assume all grape			1.5		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			1.7		irrigation type is drip			1.8
Walnuts (4/20)	3.4	3.0	2.6	2.4		3.5	3.0	2.6	2.4		3.6	3.1	2.7	2.4
Stone Fruit (3/11)	3.3	2.9	2.6	2.3		3.4	2.9	2.6	2.3		3.4	3.0	2.6	2.4

<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			
	756	661	590	519		756	661	590	519		779	685	614	543
Almonds 115 Trees/A	756	661	590	519		756	661	590	519		779	685	614	543
Pistachio 106 Trees/A	822	722	648	573		847	722	648	573		847	747	648	598
Citrus 110 Trees/A	494	420	370	321		494	420	370	321		494	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72		Assume all grape			72		Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			74		irrigation type is drip			74		irrigation type is drip			79
Walnuts 76 Trees/A	1215	1072	929	857		1251	1072	929	857		1286	1108	965	857
Stonefruit 172 Trees/A	521	458	410	363		537	458	410	363		537	474	410	379

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