

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/02/24 through 08/08/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	08/02 - 08/08 Water Use	Accum'd Seasonal Water Use	08/09 - 08/15 Estimated ETc	08/02 - 08/08 Water Use	Accum'd Seasonal Water Use	08/09 - 08/15 Estimated ETc	08/02 - 08/08 Water Use	Accum'd Seasonal Water Use	08/09 - 08/15 Estimated ETc
Almonds (3/1) *	1.94	32.27	1.88	1.89	33.69	1.81	1.81	32.68	1.76
Pistachio (4/20) * **	2.01	24.76	1.94	1.95	25.85	1.81	1.87	25.10	1.76
Citrus (2/1)	1.17	24.51	1.12	1.15	25.73	1.11	1.10	24.92	1.06
Raisin Grapes (3/11) (11 ft. row spacing)	1.29	18.05	1.24	1.28	18.85	1.18	1.22	18.32	1.14
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	1.47	19.64	1.42	1.45	20.56	1.36	1.38	19.95	1.32
Walnuts (4/20)	2.08	22.50	2.01	2.02	23.58	1.88	1.93	22.89	1.83
Stone Fruit (3/11)	2.01	24.69	1.94	1.95	25.94	1.81	1.87	25.14	1.76
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 >>>												
Almonds (3/1)	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0	2.8	2.4	2.1	1.9
Pistachio (4/20)	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0
Citrus (2/1)	1.8	1.6	1.4	1.2	1.8	1.5	1.4	1.2	1.7	1.5	1.3	1.2
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			1.4	Assume all grape			1.3	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			1.5	irrigation type is drip			1.4
Walnuts (4/20)	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.0
Stone Fruit (3/11)	3.1	2.7	2.4	2.1	3.0	2.6	2.3	2.1	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			
	Almonds 115 Trees/A	708	614	543	472	685	590	519	472	661	567	496
Pistachio 106 Trees/A	772	673	598	523	747	648	573	523	722	623	548	498
Citrus 110 Trees/A	444	395	346	296	444	370	346	296	420	370	321	296
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape			62	Assume all grape			62
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			65	irrigation type is drip			61
Walnuts 76 Trees/A	1143	1000	857	786	1108	965	857	750	1072	929	822	715
Stonefruit 172 Trees/A	489	426	379	332	474	410	363	332	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.



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/02/24 through 08/08/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	08/02- 08/08 Water Use	Accum'd Seasonal Water Use	08/09- 08/15 Estimated ETc		08/02- 08/08 Water Use	Accum'd Seasonal Water Use	08/09- 08/15 Estimated ETc		08/02- 08/08 Water Use	Accum'd Seasonal Water Use	08/09- 08/15 Estimated ETc
Almonds (3/1) *	2.03	34.69	1.87		1.96	35.52	2.02		2.08	32.75	2.01
Pistachio (4/20) * **	2.09	27.08	1.92		2.02	27.69	2.09		2.15	25.47	2.08
Citrus (2/1)	1.25	26.67	1.12		1.20	27.47	1.25		1.27	25.40	1.24
Raisin Grapes (3/11) (11 ft. row spacing)	1.36	19.64	1.23		1.31	20.13	1.36		1.39	18.46	1.35
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.56	21.39	1.41		1.50	21.84	1.54		1.60	20.10	1.53
Walnuts (4/20)	2.16	24.69	1.99		2.09	25.24	2.16		2.21	23.36	2.15
Stone Fruit (3/11)	2.09	27.26	1.92		2.02	27.78	2.09		2.15	25.64	2.08
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

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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)	3.1	2.7	2.4	2.1		3.0	2.6	2.3	2.1		3.2	2.8	2.4	2.2
Pistachio (4/20)	3.2	2.8	2.5	2.2		3.1	2.7	2.4	2.1		3.3	2.9	2.5	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3		1.8	1.6	1.4	1.3		2.0	1.7	1.5	1.3
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.4		Assume all grape			1.4		Assume all grape			1.5
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			1.7
Walnuts (4/20)	3.3	2.9	2.5	2.3		3.2	2.8	2.5	2.2		3.4	2.9	2.6	2.3
Stone Fruit (3/11)	3.2	2.8	2.5	2.2		3.1	2.7	2.4	2.1		3.3	2.9	2.5	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	732	638	567	496		708	614	543	496		756	661	567	519
Pistachio 106 Trees/A	797	698	623	548		772	673	598	523		822	722	623	573
Citrus 110 Trees/A	469	420	370	321		444	395	346	321		494	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			67		Assume all grape			67		Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			70		irrigation type is drip			70		irrigation type is drip			74
Walnuts 76 Trees/A	1179	1036	893	822		1143	1000	893	786		1215	1036	929	822
Stonefruit 172 Trees/A	505	442	395	347		489	426	379	332		521	458	395	363

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