

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/16/24 through 08/22/24

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	08/16 - 08/22 Water Use	Accum'd Seasonal Water Use	08/23 - 08/29 Estimated ETc		08/16 - 08/22 Water Use	Accum'd Seasonal Water Use	08/23 - 08/29 Estimated ETc		08/16 - 08/22 Water Use	Accum'd Seasonal Water Use	08/23 - 08/29 Estimated ETc
Almonds (3/1) *	1.81	35.96	1.75		1.87	37.60	1.66		1.76	36.36	1.53
Pistachio (4/20) * **	1.81	28.51	1.75		1.91	29.87	1.67		1.77	28.85	1.60
Citrus (2/1)	1.11	26.74	1.11		1.13	28.12	1.03		1.05	27.13	0.98
Raisin Grapes (3/11) (11 ft. row spacing)	1.18	20.48	1.13		1.23	21.46	1.07		1.14	20.73	1.06
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	1.36	22.42	1.31		1.41	23.53	1.24		1.32	22.72	1.18
Walnuts (4/20)	1.88	26.39	1.82		1.98	27.74	1.74		1.84	26.78	1.67
Stone Fruit (3/11)	1.81	28.44	1.75		1.91	29.96	1.67		1.77	28.89	1.60
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)	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.7	2.3	2.1	1.9
Pistachio (4/20)	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.7	2.4	2.1	1.9
Citrus (2/1)	1.7	1.5	1.3	1.2		1.7	1.5	1.3	1.2		1.6	1.4	1.2	1.1
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			1.2		Assume all grape			1.3		Assume all grape			1.2
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.4		irrigation type is drip			1.5		irrigation type is drip			1.4
Walnuts (4/20)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1		2.8	2.5	2.2	1.9
Stone Fruit (3/11)	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.7	2.4	2.1	1.9

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			
	661	567	496	449		685	590	519	472		638	543	496	449
Almonds 115 Trees/A	661	567	496	449		685	590	519	472		638	543	496	449
Pistachio 106 Trees/A	698	598	523	473		722	623	548	498		673	598	523	473
Citrus 110 Trees/A	420	370	321	296		420	370	321	296		395	346	296	272
Raisin Grapes 566 Vines/A	Assume all grape			58		Assume all grape			62		Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			61		irrigation type is drip			65		irrigation type is drip			61
Walnuts 76 Trees/A	1036	893	786	715		1072	929	822	750		1000	893	786	679
Stonefruit 172 Trees/A	442	379	332	300		458	395	347	316		426	379	332	300

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)

08/16/24 through 08/22/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	08/16- 08/22 Water Use	Accum'd Seasonal Water Use	08/23- 08/29 Estimated ETc		08/16- 08/22 Water Use	Accum'd Seasonal Water Use	08/23- 08/29 Estimated ETc		08/16- 08/22 Water Use	Accum'd Seasonal Water Use	08/23- 08/29 Estimated ETc
Almonds (3/1) *	2.00	38.84	1.75		1.97	39.40	1.90		2.05	37.01	1.88
Pistachio (4/20) * **	2.06	31.36	1.75		2.02	31.67	1.97		2.12	29.87	1.94
Citrus (2/1)	1.23	29.20	1.14		1.22	29.84	1.22		1.26	28.02	1.21
Raisin Grapes (3/11) (11 ft. row spacing)	1.33	22.42	1.13		1.31	22.71	1.26		1.37	21.30	1.24
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.52	24.56	3.04		1.50	24.78	1.44		1.56	23.36	1.42
Walnuts (4/20)	2.13	29.11	1.82		2.09	29.36	2.04		2.19	27.90	2.01
Stone Fruit (3/11)	2.06	31.54	1.75		2.02	31.76	1.97		2.12	30.04	1.94
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 >>	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	2.7	2.4	2.2
Pistachio (4/20)	3.2	2.7	2.4	2.2		3.1	2.7	2.4	2.1		3.3	2.8	2.5	2.2
Citrus (2/1)	1.9	1.6	1.4	1.3		1.9	1.6	1.4	1.3		1.9	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			1.4
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		3.2	2.8	2.5	2.2		3.4	2.9	2.6	2.3
Stone Fruit (3/11)	3.2	2.7	2.4	2.2		3.1	2.7	2.4	2.1		3.3	2.8	2.5	2.2

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			
	732	638	567	496		708	614	543	496		756	638	567	519
Almonds 115 Trees/A	732	638	567	496		708	614	543	496		756	638	567	519
Pistachio 106 Trees/A	797	673	598	548		772	673	598	523		822	698	623	548
Citrus 110 Trees/A	469	395	346	321		469	395	346	321		469	420	370	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		1143	1000	893	786		1215	1036	929	822
Stonefruit 172 Trees/A	505	426	379	347		489	426	379	332		521	442	395	347

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