

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
06/28/24 through 07/04/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	06/28 - 07/04 Water Use	Accum'd Seasonal Water Use	07/05 - 07/11 Estimated ETc	06/28 - 07/04 Water Use	Accum'd Seasonal Water Use	07/05 - 07/11 Estimated ETc	06/28 - 07/04 Water Use	Accum'd Seasonal Water Use	07/05 - 07/11 Estimated ETc
Almonds (3/1) *	2.10	22.15	2.10	2.23	23.38	2.03	2.15	22.71	2.03
Pistachio (4/20) * **	2.17	14.29	2.17	2.29	15.22	2.10	2.22	14.81	2.10
Citrus (2/1)	1.26	18.34	1.26	1.37	19.43	1.26	1.32	18.85	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	1.43	11.24	1.43	1.48	11.97	1.37	1.44	11.66	1.37
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.59	11.93	1.61	1.67	12.69	1.55	1.62	12.36	1.55
Walnuts (4/20)	1.82	12.22	1.94	1.94	13.12	1.87	1.87	12.79	1.87
Stone Fruit (3/11)	1.82	14.82	1.85	1.94	15.88	1.78	1.87	15.43	1.78
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)	3.2	2.8	2.5	2.2	3.4	3.0	2.6	2.3	3.3	2.9	2.5	2.3
Pistachio (4/20)	3.3	2.9	2.6	2.3	3.5	3.1	2.7	2.4	3.4	3.0	2.6	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.0	1.8	1.6	1.4
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.5	Assume all grape			1.6	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			1.8	irrigation type is drip			1.7
Walnuts (4/20)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/11)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	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	756	661	590	519	803	708	614	543	779	685	590
Pistachio 106 Trees/A	822	722	648	573	872	772	673	598	847	747	648	573
Citrus 110 Trees/A	469	420	370	321	518	444	395	346	494	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape			77	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			74	irrigation type is drip			79	irrigation type is drip			74
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	442	379	332	300	474	410	363	316	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)
06/28/24 through 07/04/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	06/28- 07/04 Water Use	Accum'd Seasonal Water Use	07/05- 07/11 Estimated ETc		06/28- 07/04 Water Use	Accum'd Seasonal Water Use	07/05- 07/11 Estimated ETc		06/28- 07/04 Water Use	Accum'd Seasonal Water Use	07/05- 07/11 Estimated ETc
Almonds (3/1) *	2.34	23.88	2.15		2.41	24.58	2.18		2.34	21.98	2.24
Pistachio (4/20) * **	2.41	15.96	2.22		2.49	16.48	2.25		2.41	14.43	2.31
Citrus (2/1)	1.43	20.08	1.31		1.48	20.82	1.34		1.42	18.86	1.40
Raisin Grapes (3/11) (11 ft. row spacing)	1.57	12.42	1.43		1.62	12.85	1.44		1.58	11.30	1.49
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.75	13.13	1.65		1.81	13.53	1.67		1.75	11.89	1.73
Walnuts (4/20)	2.06	13.73	1.99		2.13	14.21	2.02		2.06	12.46	2.08
Stone Fruit (3/11)	2.06	16.65	1.90		2.13	17.07	1.93		2.06	15.10	2.00
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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** 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)	3.6	3.1	2.8	2.5		3.7	3.2	2.8	2.5		3.6	3.1	2.8	2.5
Pistachio (4/20)	3.7	3.2	2.8	2.5		3.8	3.3	2.9	2.6		3.7	3.2	2.8	2.5
Citrus (2/1)	2.2	1.9	1.7	1.5		2.3	2.0	1.7	1.6		2.2	1.9	1.7	1.5
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			1.7		Assume all grape			1.7		Assume all grape			1.7
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.8		irrigation type is drip			1.9		irrigation type is drip			1.8
Walnuts (4/20)	3.2	2.7	2.4	2.2		3.3	2.8	2.5	2.2		3.2	2.7	2.4	2.2
Stone Fruit (3/11)	3.2	2.7	2.4	2.2		3.3	2.8	2.5	2.2		3.2	2.7	2.4	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			
	850	732	661	590		874	756	661	590		850	732	661	590
Almonds 115 Trees/A	850	732	661	590		874	756	661	590		850	732	661	590
Pistachio 106 Trees/A	922	797	698	623		947	822	722	648		922	797	698	623
Citrus 110 Trees/A	543	469	420	370		568	494	420	395		543	469	420	370
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			79		irrigation type is drip			83		irrigation type is drip			79
Walnuts 76 Trees/A	1143	965	857	786		1179	1000	893	786		1143	965	857	786
Stonefruit 172 Trees/A	505	426	379	347		521	442	395	347		505	426	379	347

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