

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

10/07/22 through 10/13/22

Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove		
	10/7 - 10/13 Water Use	Accum'd Seasonal Water Use	10/14 - 10/20 Estimated ETc		10/7 - 10/13 Water Use	Accum'd Seasonal Water Use	10/14 - 10/20 Estimated ETc		10/7 - 10/13 Water Use	Accum'd Seasonal Water Use	10/14 - 10/20 Estimated ETc
Almonds (3/1) *	0.95	46.93	0.77		0.99	48.53	0.75		1.09	45.21	0.77
Pistachio (4/8) * **	0.87	41.46	0.68		0.91	43.12	0.66		1.01	39.86	0.68
Citrus (2/1)	0.73	35.31	0.59		0.76	36.56	0.57		0.82	34.23	0.60
Raisin Grapes (3/15) (11 ft. row spacing)	0.75	27.97	0.62		0.77	29.08	0.59		0.82	26.88	0.63
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.82	30.84	0.71		0.85	32.05	0.70		0.94	29.62	0.71
Walnuts (4/8)	0.54	41.30	0.33		0.55	42.89	0.31		0.60	39.69	0.34
Stone Fruit (3/10)	0.89	40.61	0.73		0.92	42.16	0.69		1.01	38.94	0.74
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2022)	2.90				2.05				2.82		

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)	1.5	1.3	1.1	1.0		1.5	1.3	1.2	1.0		1.7	1.5	1.3	1.1
Pistachio (4/8)	1.3	1.2	1.0	0.9		1.4	1.2	1.1	1.0		1.6	1.3	1.2	1.1
Citrus (2/1)	1.1	1.0	0.9	0.8		1.2	1.0	0.9	0.8		1.3	1.1	1.0	0.9
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			0.8		Assume all grape			0.8		Assume all grape			0.9
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.9		irrigation type is drip			0.9		irrigation type is drip			1.0
Walnuts (4/8)	0.8	0.7	0.6	0.6		0.8	0.7	0.6	0.6		0.9	0.8	0.7	0.6
Stone Fruit (3/10)	1.4	1.2	1.0	0.9		1.4	1.2	1.1	1.0		1.6	1.3	1.2	1.1

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			
Almonds 115 Trees/A	354	307	260	236		354	307	283	236		401	354	307	260
Pistachio 106 Trees/A	324	299	249	224		349	299	274	249		399	324	299	274
Citrus 110 Trees/A	272	247	222	197		296	247	222	197		321	272	247	222
Raisin Grapes 566 Vines/A	Assume all grape			38		Assume all grape			38		Assume all grape			43
Winegrapes 622 Vines/A	irrigation type is drip			39		irrigation type is drip			39		irrigation type is drip			44
Walnuts 76 Trees/A	286	250	214	214		286	250	214	214		322	286	250	214
Stonefruit 172 Trees/A	221	189	158	142		221	189	174	158		253	205	189	174

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)

10/07/22 through 10/13/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	10/7 - 10/13 Water Use	Accum'd Seasonal Water Use	10/14- 10/20 Estimated ETc	10/7 - 10/13 Water Use	Accum'd Seasonal Water Use	10/14- 10/20 Estimated ETc	10/7 - 10/13 Water Use	Accum'd Seasonal Water Use	10/14- 10/20 Estimated ETc
Almonds (3/1) *	1.15	52.10	0.81	1.18	54.13	0.91	1.20	55.73	0.87
Pistachio (4/8) * **	1.09	45.81	0.74	1.10	47.42	0.82	1.11	48.99	0.78
Citrus (2/1)	0.88	39.20	0.67	0.91	40.82	0.75	0.93	41.69	0.73
Raisin Grapes (3/15) (11 ft. row spacing)	0.89	30.85	0.69	0.91	32.04	0.76	0.93	33.06	0.74
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.00	33.95	0.75	1.03	35.22	0.83	1.05	36.42	0.80
Walnuts (4/8)	0.65	45.52	0.37	0.65	47.24	0.40	0.66	48.72	0.40
Stone Fruit (3/10)	1.09	44.81	0.81	1.12	46.48	0.86	1.13	48.00	0.84
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.25			1.76			1.33		

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.

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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)	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.2	1.8	1.6	1.4	1.3
Pistachio (4/8)	1.7	1.5	1.3	1.1	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2
Citrus (2/1)	1.4	1.2	1.0	0.9	1.4	1.2	1.1	1.0	1.4	1.2	1.1	1.0
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			0.9	Assume all grape			1.0	Assume all grape			1.0
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.1	irrigation type is drip			1.1	irrigation type is drip			1.1
Walnuts (4/8)	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7	1.0	0.9	0.8	0.7
Stone Fruit (3/10)	1.7	1.5	1.3	1.1	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2

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			
	425	354	331	283	425	378	331	283	425	378	331	307
Almonds 115 Trees/A	425	354	331	283	425	378	331	283	425	378	331	307
Pistachio 106 Trees/A	424	374	324	274	424	374	324	299	424	374	324	299
Citrus 110 Trees/A	346	296	247	222	346	296	272	247	346	296	272	247
Raisin Grapes 566 Vines/A	Assume all grape			43	Assume all grape			48	Assume all grape			48
Winegrapes 622 Vines/A	irrigation type is drip			48	irrigation type is drip			48	irrigation type is drip			48
Walnuts 76 Trees/A	357	322	286	250	357	322	286	250	357	322	286	250
Stonefruit 172 Trees/A	268	237	205	174	268	237	205	189	268	237	205	189

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