

WEEKLY SOIL MOISTURE LOSS IN INCHES														
(Estimated Crop Evapotranspiration or ET _C)														
09/29/23 through 10/05/23														
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove					
	9/29 - 10/5	Accum'd	10/6 - 10/12		9/29 - 10/5	Accum'd	10/6 - 10/12		9/29 - 10/5	Accum'd	10/6 - 10/12			
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated			
	Use	Water Use	ET _C		Use	Water Use	ET _C		Use	Water Use	ET _C			
Almonds (3/13) *	0.93	41.24	0.84		0.89	43.24	0.81		0.85	41.86	0.87			
Pistachio (4/20) * **	0.89	35.42	0.78		0.87	37.07	0.76		0.82	36.14	0.82			
Citrus (2/1)	0.64	30.64	0.64		0.62	32.32	0.60		0.60	31.21	0.68			
Raisin Grapes (3/22) (11 ft. row spacing)	0.69	23.31	0.66		0.66	24.34	0.63		0.63	23.77	0.70			
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	0.77	25.74	0.73		0.75	26.92	0.71		0.71	26.21	0.76			
Walnuts (4/20)	0.93	33.91	0.79		0.89	35.48	0.77		0.85	34.62	0.82			
Stone Fruit (3/19)	0.84	36.91	0.78		0.83	38.58	0.74		0.78	37.57	0.82			
Past 7 days precipitation (inches)	0.00				0.01				0.00					
Accumulated precipitation (inches) (1/1/2023)	19.11				13.14				16.68					
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			
System Efficiency >>>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/13)	1.4	1.2	1.1	1.0		1.4	1.2	1.0	0.9		1.3	1.1	1.0	0.9
Pistachio (4/20)	1.4	1.2	1.0	0.9		1.3	1.2	1.0	0.9		1.3	1.1	1.0	0.9
Citrus (2/1)	1.0	0.9	0.8	0.7		1.0	0.8	0.7	0.7		0.9	0.8	0.7	0.6
Raisin Grapes (3/22) (11 ft. row spacing)***	Assume all grape			0.7		Assume all grape			0.7		Assume all grape			0.7
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.8		irrigation type is drip			0.8		irrigation type is drip			0.7
Walnuts (4/20)	1.4	1.2	1.1	1.0		1.4	1.2	1.0	0.9		1.3	1.1	1.0	0.9
Stone Fruit (3/19)	1.3	1.1	1.0	0.9		1.3	1.1	1.0	0.9		1.2	1.0	0.9	0.8
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	331	283	260	236		331	283	236	213		307	260	236	213
Pistachio 106 Trees/A	349	299	249	224		324	299	249	224		324	274	249	224
Citrus 110 Trees/A	247	222	197	173		247	197	173	173		222	197	173	148
Raisin Grapes 566 Vines/A	Assume all grape			34		Assume all grape			34		Assume all grape			34
Winegrapes 622 Vines/A	irrigation type is drip			35		irrigation type is drip			35		irrigation type is drip			31
Walnuts 76 Trees/A	500	429	393	357		500	429	357	322		464	393	357	322
Stonefruit 172 Trees/A	205	174	158	142		205	174	158	142		189	158	142	126
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.														

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.

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
System Efficiency >>>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	1.5	1.3	1.2	1.0	1.5	1.3	1.1	1.0	1.5	1.3	1.2	1.0
Pistachio (4/20)	1.5	1.3	1.2	1.0	1.4	1.2	1.1	1.0	1.5	1.3	1.1	1.0
Citrus (2/1)	1.1	1.0	0.9	0.8	1.0	0.9	0.8	0.7	1.1	0.9	0.8	0.7
Raisin Grapes (3/22) (11 ft. row spacing)	Assume all grape			0.8	Assume all grape			0.7	Assume all grape			0.8
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.9	irrigation type is drip			0.8	irrigation type is drip			0.9
Walnuts (4/20)	1.5	1.3	1.2	1.1	1.5	1.3	1.1	1.0	1.5	1.3	1.2	1.0
Stone Fruit (3/19)	1.4	1.2	1.1	0.9	1.3	1.1	1.0	0.9	1.4	1.2	1.0	0.9

PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

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