

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

09/24/21 through 09/30/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	9/24 - 9/30 Water Use	Accum'd Seasonal Water Use	10/1 - 10/7 Estimated ETc	9/24 - 9/30 Water Use	Accum'd Seasonal Water Use	10/1 - 10/7 Estimated ETc	9/24 - 9/30 Water Use	Accum'd Seasonal Water Use	10/1 - 10/7 Estimated ETc
Almonds (3/5) *	1.10	44.01	1.00	1.08	46.77	0.95	1.08	43.32	0.96
Pistachio (4/16) * **	1.01	38.17	0.87	0.99	40.85	0.82	0.99	37.53	0.83
Citrus (2/1)	0.74	33.46	0.70	0.72	35.29	0.67	0.72	32.81	0.68
Raisin Grapes (3/12) (11 ft. row spacing)	0.92	30.57	0.87	0.92	32.75	0.82	0.91	30.06	0.83
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.03	33.69	0.94	1.01	36.09	0.89	1.01	33.12	0.90
Walnuts (4/5)	0.85	39.80	0.52	0.83	42.46	0.49	0.84	39.17	0.50
Stone Fruit (3/10)	1.23	37.35	1.11	1.22	39.95	1.03	1.22	36.72	1.05
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	5.54			3.66			3.90		

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 (3/5)	1.7	1.5	1.3	1.2	1.7	1.4	1.3	1.1	1.7	1.4	1.3	1.1
Pistachio (4/16)	1.6	1.3	1.2	1.1	1.5	1.3	1.2	1.0	1.5	1.3	1.2	1.0
Citrus (2/1)	1.1	1.0	0.9	0.8	1.1	1.0	0.8	0.8	1.1	1.0	0.8	0.8
Raisin Grapes (3/12) (11 ft. row spacing)***	1.4	1.2	1.1	1.0	1.4	1.2	1.1	1.0	1.4	1.2	1.1	1.0
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.6	1.4	1.2	1.1	1.6	1.3	1.2	1.1	1.6	1.3	1.2	1.1
Walnuts (4/5)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Stone Fruit (3/10)	1.9	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.9	1.6	1.4	1.3

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	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	401	354	307	283	401	331	307	260	401	331	307	260
Pistachio 106 Trees/A	399	324	299	274	374	324	299	249	374	324	299	249
Citrus 110 Trees/A	272	247	222	197	272	247	197	197	272	247	197	197
Raisin Grapes 566 Vines/A	67	58	53	48	67	58	53	48	67	58	53	48
Winegrapes 622 Vines/A	70	61	52	48	70	57	52	48	70	57	52	48
Walnuts 76 Trees/A	464	393	357	322	464	393	357	322	464	393	357	322
Stonefruit 172 Trees/A	300	253	221	205	300	253	221	205	300	253	221	205

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)

09/24/21 through 09/30/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	9/24- 9/30 Water Use	Accum'd Seasonal Water Use	10/1 - 10/7 Estimated ETc	9/24- 9/30 Water Use	Accum'd Seasonal Water Use	10/1 - 10/7 Estimated ETc	9/24- 9/30 Water Use	Accum'd Seasonal Water Use	10/1 - 10/7 Estimated ETc
Almonds (3/5) *	1.23	49.94	1.09	1.26	50.53	1.14	1.25	51.56	1.12
Pistachio (4/16) * **	1.14	44.00	0.95	1.17	44.00	1.06	1.16	45.21	1.01
Citrus (2/1)	0.83	37.93	0.76	0.85	38.82	0.83	0.84	39.14	0.80
Raisin Grapes (3/12) (11 ft. row spacing)	1.03	35.18	0.91	1.05	35.23	0.99	1.04	36.18	0.94
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.16	38.84	1.02	1.19	38.99	1.13	1.18	39.97	1.08
Walnuts (4/5)	0.95	45.65	0.56	0.97	45.82	0.62	0.97	46.87	0.59
Stone Fruit (3/10)	1.37	42.87	1.23	1.40	43.18	1.34	1.39	44.20	1.29
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.72			3.06		

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 (3/5)	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Pistachio (4/16)	1.8	1.5	1.3	1.2	1.8	1.6	1.4	1.2	1.8	1.5	1.4	1.2
Citrus (2/1)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9
Raisin Grapes (3/12) (11 ft. row spacing)	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.8	1.5	1.4	1.2	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.2
Walnuts (4/5)	1.5	1.3	1.1	1.0	1.5	1.3	1.1	1.0	1.5	1.3	1.1	1.0
Stone Fruit (3/10)	2.1	1.8	1.6	1.4	2.2	1.9	1.6	1.5	2.1	1.9	1.6	1.5

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			
	449	378	331	307	449	401	354	307	449	401	354	307
Almonds 115 Trees/A	449	378	331	307	449	401	354	307	449	401	354	307
Pistachio 106 Trees/A	448	374	324	299	448	399	349	299	448	374	349	299
Citrus 110 Trees/A	321	272	247	222	321	272	247	222	321	272	247	222
Raisin Grapes 566 Vines/A	77	67	58	53	77	67	58	53	77	67	58	53
Winegrapes 622 Vines/A	79	65	61	52	79	70	61	57	79	70	61	52
Walnuts 76 Trees/A	536	464	393	357	536	464	393	357	536	464	393	357
Stonefruit 172 Trees/A	332	284	253	221	347	300	253	237	332	300	253	237

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