

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

04/15/22 through 04/21/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	4/15 - 4/21 Water Use	Accum'd Seasonal Water Use	4/22 - 4/28 Estimated ETc	4/15 - 4/21 Water Use	Accum'd Seasonal Water Use	4/22 - 4/28 Estimated ETc	4/15 - 4/21 Water Use	Accum'd Seasonal Water Use	4/22 - 4/28 Estimated ETc
Almonds (3/1) *	0.76	5.05	1.20	0.96	5.20	1.16	0.97	4.99	1.12
Pistachio (4/8) * **	0.34	0.60	0.73	0.42	0.70	0.70	0.42	0.68	0.68
Citrus (2/1)	0.70	7.41	1.02	0.89	7.58	0.98	0.89	7.36	0.95
Raisin Grapes (3/15) (11 ft. row spacing)	0.20	0.68	0.33	0.27	0.75	0.32	0.27	0.74	0.31
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.25	0.99	0.38	0.31	1.06	0.37	0.31	1.04	0.36
Walnuts (4/8)	0.70	1.38	0.99	0.88	1.59	0.95	0.87	1.55	0.92
Stone Fruit (3/10)	0.41	2.11	0.77	0.49	2.18	0.74	0.49	2.12	0.72
Past 7 days precipitation (inches)	0.51			0.16			0.11		
Accumulated precipitation (inches) (1/1/2022)	1.75			1.74			1.65		

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)	1.2	1.0	0.9	0.8	1.5	1.3	1.1	1.0	1.5	1.3	1.1	1.0
Pistachio (4/8)	0.5	0.5	0.4	0.4	0.6	0.6	0.5	0.4	0.6	0.6	0.5	0.4
Citrus (2/1)	1.1	0.9	0.8	0.7	1.4	1.2	1.0	0.9	1.4	1.2	1.0	0.9
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			0.2	Assume all grape			0.3	Assume all grape			0.3
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.3	irrigation type is drip			0.3	irrigation type is drip			0.3
Walnuts (4/8)	1.1	0.9	0.8	0.7	1.4	1.2	1.0	0.9	1.3	1.2	1.0	0.9
Stone Fruit (3/10)	0.6	0.5	0.5	0.4	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.5

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	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	283	236	213	189	354	307	260	236	354	307	260	236
Pistachio 106 Trees/A	125	125	100	100	149	149	125	100	149	149	125	100
Citrus 110 Trees/A	272	222	197	173	346	296	247	222	346	296	247	222
Raisin Grapes 566 Vines/A	Assume all grape			10	Assume all grape			14	Assume all grape			14
Winegrapes 622 Vines/A	irrigation type is drip			13	irrigation type is drip			13	irrigation type is drip			13
Walnuts 76 Trees/A	393	322	286	250	500	429	357	322	464	429	357	322
Stonefruit 172 Trees/A	95	79	79	63	126	111	95	79	126	111	95	79

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)
04/15/22 through 04/21/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	4/15 - 4/21 Water Use	Accum'd Seasonal Water Use	4/22 - 4/28 Estimated ETc	4/15 - 4/21 Water Use	Accum'd Seasonal Water Use	4/22 - 4/28 Estimated ETc	4/15 - 4/21 Water Use	Accum'd Seasonal Water Use	4/22 - 4/28 Estimated ETc
Almonds (3/1) *	0.93	5.85	1.33	1.03	6.28	1.37	1.11	6.40	1.29
Pistachio (4/8) * **	0.37	0.67	0.80	0.43	0.77	0.83	0.47	0.81	0.78
Citrus (2/1)	0.84	8.30	1.12	0.91	8.89	1.16	0.98	8.73	1.09
Raisin Grapes (3/15) (11 ft. row spacing)	0.24	0.75	0.37	0.26	0.82	0.38	0.28	0.88	0.36
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.29	1.10	0.43	0.31	1.20	0.43	0.34	1.23	0.41
Walnuts (4/8)	0.81	1.61	1.09	0.89	1.80	1.12	0.98	1.90	1.05
Stone Fruit (3/10)	0.46	2.35	0.85	0.52	2.57	0.87	0.57	2.62	0.82
Past 7 days precipitation (inches)	0.29			0.00			0.07		
Accumulated precipitation (inches) (1/1/2022)	1.03			1.11			1.29		

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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	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)	1.4	1.2	1.1	1.0	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2
Pistachio (4/8)	0.6	0.5	0.4	0.4	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5
Citrus (2/1)	1.3	1.1	1.0	0.9	1.4	1.2	1.1	1.0	1.5	1.3	1.2	1.0
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			0.3	Assume all grape			0.3	Assume all grape			0.3
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.3	irrigation type is drip			0.3	irrigation type is drip			0.4
Walnuts (4/8)	1.2	1.1	1.0	0.9	1.4	1.2	1.0	0.9	1.5	1.3	1.2	1.0
Stone Fruit (3/10)	0.7	0.6	0.5	0.5	0.8	0.7	0.6	0.5	0.9	0.8	0.7	0.6

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Almonds 115 Trees/A	331	283	260	236	378	331	283	260	401	354	307	283
Pistachio 106 Trees/A	149	125	100	100	174	149	125	125	174	149	149	125
Citrus 110 Trees/A	321	272	247	222	346	296	272	247	370	321	296	247
Raisin Grapes 566 Vines/A	Assume all grape			14	Assume all grape			14	Assume all grape			14
Winegrapes 622 Vines/A	irrigation type is drip			13	irrigation type is drip			13	irrigation type is drip			17
Walnuts 76 Trees/A	429	393	357	322	500	429	357	322	536	464	429	357
Stonefruit 172 Trees/A	111	95	79	79	126	111	95	79	142	126	111	95

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