

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/09/21 through 07/15/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/9- 7/15 Water Use	Accum'd Seasonal Water Use	7/16- 7/22 Estimated ETc	7/9- 7/15 Water Use	Accum'd Seasonal Water Use	7/16- 7/22 Estimated ETc	7/9- 7/15 Water Use	Accum'd Seasonal Water Use	7/16- 7/22 Estimated ETc
Almonds (3/5) *	2.08	26.09	2.07	2.22	27.59	1.96	2.03	26.05	1.96
Pistachio (4/16) * **	2.15	20.27	2.14	2.28	21.64	2.03	2.10	20.26	2.03
Citrus (2/1)	1.27	22.15	1.26	1.36	23.24	1.19	1.24	21.95	1.19
Raisin Grapes (3/12) (11 ft. row spacing)	1.63	16.47	1.65	1.74	17.65	1.54	1.60	16.52	1.54
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.87	17.69	1.86	2.00	18.89	1.75	1.82	17.70	1.75
Walnuts (4/5)	2.22	22.22	2.21	2.35	23.63	2.10	2.17	22.20	2.10
Stone Fruit (3/10)	2.03	18.98	2.00	2.18	20.23	1.89	1.96	19.00	1.89
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 >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	3.2	2.8	2.4	2.2	3.4	3.0	2.6	2.3	3.1	2.7	2.4	2.1
Pistachio (4/16)	3.3	2.9	2.5	2.3	3.5	3.0	2.7	2.4	3.2	2.8	2.5	2.2
Citrus (2/1)	2.0	1.7	1.5	1.3	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	2.5	2.2	1.9	1.7	2.7	2.3	2.0	1.8	2.5	2.1	1.9	1.7
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.9	2.5	2.2	2.0	3.1	2.7	2.4	2.1	2.8	2.4	2.1	1.9
Walnuts (4/5)	3.4	3.0	2.6	2.3	3.6	3.1	2.8	2.5	3.3	2.9	2.6	2.3
Stone Fruit (3/10)	3.1	2.7	2.4	2.1	3.4	2.9	2.6	2.3	3.0	2.6	2.3	2.1

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	756	661	567	519	803	708	614	543	732	638	567
Pistachio 106 Trees/A	822	722	623	573	872	747	673	598	797	698	623	548
Citrus 110 Trees/A	494	420	370	321	518	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	130	110	96	86	120	101	91	82
Winegrapes 622 Vines/A	127	109	96	87	135	118	105	92	122	105	92	83
Walnuts 76 Trees/A	1215	1072	929	822	1286	1108	1000	893	1179	1036	929	822
Stonefruit 172 Trees/A	489	426	379	332	537	458	410	363	474	410	363	332

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)
 07/09/21 through 07/15/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/9- 7/15 Water Use	Accum'd Seasonal Water Use	7/16- 7/22 Estimated ETc	7/9- 7/15 Water Use	Accum'd Seasonal Water Use	7/16- 7/22 Estimated ETc	7/9- 7/15 Water Use	Accum'd Seasonal Water Use	7/16- 7/22 Estimated ETc
Almonds (3/5) *	2.44	29.34	2.03	2.38	29.99	2.17	2.56	30.50	2.17
Pistachio (4/16) * **	2.49	23.39	2.10	2.43	23.46	2.24	2.61	24.09	2.24
Citrus (2/1)	1.47	24.96	1.26	1.44	25.78	1.33	1.53	25.78	1.33
Raisin Grapes (3/12) (11 ft. row spacing)	1.90	18.98	1.61	1.85	19.09	1.68	1.99	19.60	1.68
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.17	20.32	1.82	2.12	20.51	1.96	2.27	20.98	1.96
Walnuts (4/5)	2.58	25.48	2.17	2.52	25.78	2.31	2.69	26.31	2.31
Stone Fruit (3/10)	2.38	21.72	1.96	2.33	22.08	2.10	2.51	22.52	2.10
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83			4.65			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

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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 (3/5)	3.8	3.3	2.9	2.6	3.7	3.2	2.8	2.5	3.9	3.4	3.0	2.7
Pistachio (4/16)	3.8	3.3	2.9	2.6	3.7	3.2	2.9	2.6	4.0	3.5	3.1	2.7
Citrus (2/1)	2.3	2.0	1.7	1.5	2.2	1.9	1.7	1.5	2.4	2.0	1.8	1.6
Raisin Grapes (3/12) (11 ft. row spacing)	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9	3.1	2.7	2.3	2.1
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.3	2.9	2.6	2.3	3.3	2.8	2.5	2.2	3.5	3.0	2.7	2.4
Walnuts (4/5)	4.0	3.4	3.0	2.7	3.9	3.4	3.0	2.7	4.1	3.6	3.2	2.8
Stone Fruit (3/10)	3.7	3.2	2.8	2.5	3.6	3.1	2.7	2.5	3.9	3.3	3.0	2.6

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%.

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Pistachio 106 Trees/A	947	822	722	648	922	797	722	648	996	872	772	673
Citrus 110 Trees/A	568	494	420	370	543	469	420	370	592	494	444	395
Raisin Grapes 566 Vines/A	139	120	106	96	134	120	106	91	149	130	110	101
Winegrapes 622 Vines/A	144	127	114	100	144	122	109	96	153	131	118	105
Walnuts 76 Trees/A	1429	1215	1072	965	1393	1215	1072	965	1465	1286	1143	1000
Stonefruit 172 Trees/A	584	505	442	395	568	489	426	395	616	521	474	410

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