

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

07/30/21 through 08/05/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	7/30- 8/5 Water Use	Accum'd Seasonal Water Use	8/6 - 8/12 Estimated ETc	7/30- 8/5 Water Use	Accum'd Seasonal Water Use	8/6 - 8/12 Estimated ETc	7/30- 8/5 Water Use	Accum'd Seasonal Water Use	8/6 - 8/12 Estimated ETc
Almonds (3/5) *	2.10	32.36	1.92	2.12	33.85	1.82	1.94	31.80	1.82
Pistachio (4/16) * **	2.17	26.74	1.99	2.19	28.11	1.82	2.01	26.20	1.82
Citrus (2/1)	1.28	25.97	1.15	1.29	27.05	1.12	1.17	25.44	1.12
Raisin Grapes (3/12) (11 ft. row spacing)	1.65	21.40	1.50	1.68	22.59	1.40	1.52	21.03	1.40
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.89	23.32	1.71	1.91	24.53	1.61	1.73	22.83	1.61
Walnuts (4/5)	2.24	28.90	2.06	2.26	30.31	1.89	2.08	28.34	1.89
Stone Fruit (3/10)	2.17	25.29	1.99	2.19	26.57	1.82	2.01	24.79	1.82
Past 7 days precipitation (inches)	0.00			0.00			0.07		
Accumulated precipitation (inches) (1/1/2021)	5.54			3.66			3.97		

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	2.5	2.2	3.3	2.8	2.5	2.2	3.0	2.6	2.3	2.0
Pistachio (4/16)	3.3	2.9	2.6	2.3	3.4	2.9	2.6	2.3	3.1	2.7	2.4	2.1
Citrus (2/1)	2.0	1.7	1.5	1.3	2.0	1.7	1.5	1.4	1.8	1.6	1.4	1.2
Raisin Grapes (3/12) (11 ft. row spacing)***	2.5	2.2	1.9	1.7	2.6	2.2	2.0	1.8	2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0	2.7	2.3	2.0	1.8
Walnuts (4/5)	3.4	3.0	2.6	2.4	3.5	3.0	2.7	2.4	3.2	2.8	2.4	2.2
Stone Fruit (3/10)	3.3	2.9	2.6	2.3	3.4	2.9	2.6	2.3	3.1	2.7	2.4	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			
	756	661	590	519	779	661	590	519	708	614	543	472
Almonds 115 Trees/A	756	661	590	519	779	661	590	519	708	614	543	472
Pistachio 106 Trees/A	822	722	648	573	847	722	648	573	772	673	598	523
Citrus 110 Trees/A	494	420	370	321	494	420	370	346	444	395	346	296
Raisin Grapes 566 Vines/A	120	106	91	82	125	106	96	86	110	96	86	77
Winegrapes 622 Vines/A	127	109	96	87	127	109	96	87	118	100	87	79
Walnuts 76 Trees/A	1215	1072	929	857	1251	1072	965	857	1143	1000	857	786
Stonefruit 172 Trees/A	521	458	410	363	537	458	410	363	489	426	379	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)

07/30/21 through 08/05/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/30 - 8/5 Water Use	Accum'd Seasonal Water Use	8/6 - 8/12 Estimated ETc	7/30 - 8/5 Water Use	Accum'd Seasonal Water Use	8/6 - 8/12 Estimated ETc	7/30 - 8/5 Water Use	Accum'd Seasonal Water Use	8/6 - 8/12 Estimated ETc
Almonds (3/5) *	2.25	36.34	1.89	2.27	36.58	2.05	2.35	37.36	2.03
Pistachio (4/16) * **	2.32	30.53	1.96	2.34	30.23	2.12	2.42	31.13	2.10
Citrus (2/1)	1.38	29.21	1.12	1.40	29.81	1.26	1.44	29.96	1.26
Raisin Grapes (3/12) (11 ft. row spacing)	1.77	24.43	1.47	1.78	24.26	1.63	1.86	24.98	1.61
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.04	26.61	1.68	2.06	26.45	1.84	2.14	27.18	1.82
Walnuts (4/5)	2.40	32.86	2.03	2.42	32.78	2.19	2.50	33.58	2.17
Stone Fruit (3/10)	2.32	28.75	1.96	2.34	28.74	2.12	2.42	29.45	2.07
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)	3.5	3.0	2.6	2.4	3.5	3.0	2.7	2.4	3.6	3.1	2.8	2.5
Pistachio (4/16)	3.6	3.1	2.7	2.4	3.6	3.1	2.8	2.5	3.7	3.2	2.8	2.5
Citrus (2/1)	2.1	1.8	1.6	1.5	2.2	1.9	1.6	1.5	2.2	1.9	1.7	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.7	2.4	2.1	1.9	2.7	2.4	2.1	1.9	2.9	2.5	2.2	2.0
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.1	2.7	2.4	2.1	3.2	2.7	2.4	2.2	3.3	2.9	2.5	2.3
Walnuts (4/5)	3.7	3.2	2.8	2.5	3.7	3.2	2.8	2.5	3.8	3.3	2.9	2.6
Stone Fruit (3/10)	3.6	3.1	2.7	2.4	3.6	3.1	2.8	2.5	3.7	3.2	2.8	2.5

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			
	Almonds 115 Trees/A	826	708	614	567	826	708	638	567	850	732	661
Pistachio 106 Trees/A	897	772	673	598	897	772	698	623	922	797	698	623
Citrus 110 Trees/A	518	444	395	370	543	469	395	370	543	469	420	370
Raisin Grapes 566 Vines/A	130	115	101	91	130	115	101	91	139	120	106	96
Winegrapes 622 Vines/A	135	118	105	92	140	118	105	96	144	127	109	100
Walnuts 76 Trees/A	1322	1143	1000	893	1322	1143	1000	893	1358	1179	1036	929
Stonefruit 172 Trees/A	568	489	426	379	568	489	442	395	584	505	442	395

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