

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/06/21 through 08/12/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/6 - 8/12 Water Use	Accum'd Seasonal Water Use	8/13 - 8/19 Estimated ETc	8/6 - 8/12 Water Use	Accum'd Seasonal Water Use	8/13 - 8/19 Estimated ETc	8/6 - 8/12 Water Use	Accum'd Seasonal Water Use	8/13 - 8/19 Estimated ETc
Almonds (3/5) *	1.81	33.73	1.87	1.94	35.79	1.76	1.82	33.62	1.79
Pistachio (4/16) * **	1.85	28.14	1.92	2.00	30.11	1.76	1.85	28.05	1.79
Citrus (2/1)	1.10	26.79	1.12	1.17	28.22	1.06	1.09	26.53	1.09
Raisin Grapes (3/12) (11 ft. row spacing)	1.41	22.46	1.45	1.52	24.11	1.34	1.40	22.43	1.37
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.61	24.50	1.66	1.73	26.26	1.55	1.61	24.44	1.58
Walnuts (4/5)	1.92	30.37	1.91	2.07	32.38	1.78	1.92	30.26	1.81
Stone Fruit (3/10)	1.85	26.69	1.92	2.00	28.57	1.76	1.85	26.64	1.79
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)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.8	2.4	2.1	1.9
Pistachio (4/16)	2.8	2.5	2.2	1.9	3.1	2.7	2.4	2.1	2.8	2.5	2.2	1.9
Citrus (2/1)	1.7	1.5	1.3	1.2	1.8	1.6	1.4	1.2	1.7	1.5	1.3	1.1
Raisin Grapes (3/12) (11 ft. row spacing)***	2.2	1.9	1.7	1.5	2.3	2.0	1.8	1.6	2.2	1.9	1.6	1.5
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.5	2.1	1.9	1.7	2.7	2.3	2.0	1.8	2.5	2.1	1.9	1.7
Walnuts (4/5)	3.0	2.6	2.3	2.0	3.2	2.8	2.4	2.2	3.0	2.6	2.3	2.0
Stone Fruit (3/10)	2.8	2.5	2.2	1.9	3.1	2.7	2.4	2.1	2.8	2.5	2.2	1.9

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	661	567	496	449	708	614	543	472	661	567	496	449
Pistachio 106 Trees/A	698	623	548	473	772	673	598	523	698	623	548	473
Citrus 110 Trees/A	420	370	321	296	444	395	346	296	420	370	321	272
Raisin Grapes 566 Vines/A	106	91	82	72	110	96	86	77	106	91	77	72
Winegrapes 622 Vines/A	109	92	83	74	118	100	87	79	109	92	83	74
Walnuts 76 Trees/A	1072	929	822	715	1143	1000	857	786	1072	929	822	715
Stonefruit 172 Trees/A	442	395	347	300	489	426	379	332	442	395	347	300

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)

08/06/21 through 08/12/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/6 - 8/12 Water Use	Accum'd Seasonal Water Use	8/13 - 8/19 Estimated ETc	8/6 - 8/12 Water Use	Accum'd Seasonal Water Use	8/13 - 8/19 Estimated ETc	8/6 - 8/12 Water Use	Accum'd Seasonal Water Use	8/13 - 8/19 Estimated ETc
Almonds (3/5) *	2.14	38.48	1.82	2.07	38.65	1.99	2.06	39.42	1.97
Pistachio (4/16) * **	2.21	32.74	1.82	2.14	32.37	2.06	2.13	33.26	2.04
Citrus (2/1)	1.29	30.50	1.12	1.26	31.07	1.22	1.27	31.23	1.20
Raisin Grapes (3/12) (11 ft. row spacing)	1.70	26.13	1.40	1.62	25.88	1.57	1.62	26.60	1.55
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.93	28.54	1.61	1.86	28.31	1.78	1.85	29.03	1.76
Walnuts (4/5)	2.28	35.14	1.84	2.21	34.99	2.03	2.20	35.78	2.01
Stone Fruit (3/10)	2.21	30.96	1.82	2.14	30.88	2.06	2.13	31.58	2.04
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.

** 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	#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)	3.3	2.9	2.5	2.3	3.2	2.8	2.4	2.2	3.2	2.7	2.4	2.2
Pistachio (4/16)	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3	3.3	2.8	2.5	2.2
Citrus (2/1)	2.0	1.7	1.5	1.4	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3
Raisin Grapes (3/12) (11 ft. row spacing)	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7	2.5	2.2	1.9	1.7
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/5)	3.5	3.0	2.7	2.4	3.4	2.9	2.6	2.3	3.4	2.9	2.6	2.3
Stone Fruit (3/10)	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3	3.3	2.8	2.5	2.2

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	779	685	590	543	756	661	567	519	756	638	567
Pistachio 106 Trees/A	847	722	648	573	822	722	623	573	822	698	623	548
Citrus 110 Trees/A	494	420	370	346	469	420	370	321	494	420	370	321
Raisin Grapes 566 Vines/A	125	110	96	86	120	106	91	82	120	106	91	82
Winegrapes 622 Vines/A	131	114	100	87	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1251	1072	965	857	1215	1036	929	822	1215	1036	929	822
Stonefruit 172 Trees/A	537	458	410	363	521	458	395	363	521	442	395	347

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