

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

08/14/20 through 08/20/20

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	8/14 - 8/20 Water Use	Accum'd Seasonal Water Use	8/21 - 8/27 Estimated ETc	8/14 - 8/20 Water Use	Accum'd Seasonal Water Use	8/21 - 8/27 Estimated ETc	8/14 - 8/20 Water Use	Accum'd Seasonal Water Use	8/21 - 8/27 Estimated ETc
Almonds (3/5) *	1.58	35.03	1.78	1.83	35.94	1.69	1.75	33.69	1.70
Pistachio (4/13) * **	1.60	28.01	1.78	1.86	29.01	1.69	1.77	27.40	1.70
Citrus (2/1)	0.97	27.94	1.08	1.10	28.15	0.99	1.05	26.48	1.00
Raisin Grapes (3/16) (11 ft. row spacing)	1.23	23.22	1.36	1.42	23.99	1.27	1.35	22.72	1.28
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.40	25.47	1.57	1.62	26.31	1.48	1.54	24.82	1.49
Walnuts (4/8)	1.66	27.95	1.85	1.93	28.94	1.76	1.84	27.29	1.77
Stone Fruit (3/10)	1.60	28.46	1.78	1.86	29.44	1.69	1.77	27.62	1.70
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2020)	5.05			4.80			5.61		

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)	2.4	2.1	1.9	1.7	2.8	2.4	2.2	1.9	2.7	2.3	2.1	1.8
Pistachio (4/13)	2.5	2.1	1.9	1.7	2.9	2.5	2.2	2.0	2.7	2.4	2.1	1.9
Citrus (2/1)	1.5	1.3	1.1	1.0	1.7	1.5	1.3	1.2	1.6	1.4	1.2	1.1
Raisin Grapes (3/16) (11 ft. row spacing)***	1.9	1.6	1.4	1.3	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.4
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.2	1.9	1.6	1.5	2.5	2.2	1.9	1.7	2.4	2.1	1.8	1.6
Walnuts (4/8)	2.6	2.2	2.0	1.7	3.0	2.6	2.3	2.0	2.8	2.5	2.2	1.9
Stone Fruit (3/10)	2.5	2.1	1.9	1.7	2.9	2.5	2.2	2.0	2.7	2.4	2.1	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	567	496	449	401	661	567	519	449	638	543	496	425
Pistachio 106 Trees/A	623	523	473	424	722	623	548	498	673	598	523	473
Citrus 110 Trees/A	370	321	272	247	420	370	321	296	395	346	296	272
Raisin Grapes 566 Vines/A	91	77	67	62	106	91	82	72	101	86	77	67
Winegrapes 622 Vines/A	96	83	70	65	109	96	83	74	105	92	79	70
Walnuts 76 Trees/A	929	786	715	607	1072	929	822	715	1000	893	786	679
Stonefruit 172 Trees/A	395	332	300	268	458	395	347	316	426	379	332	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)

08/14/20 through 08/20/20

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	8/14- 8/20 Water Use	Accum'd Seasonal Water Use	8/21- 8/27 Estimated ETc	8/14- 8/20 Water Use	Accum'd Seasonal Water Use	8/21- 8/27 Estimated ETc	8/14- 8/20 Water Use	Accum'd Seasonal Water Use	8/21- 8/27 Estimated ETc
Almonds (3/5) *	1.81	38.02	1.75	2.13	38.46	1.91	2.04	39.42	1.89
Pistachio (4/13) * **	1.84	30.74	1.75	2.18	30.59	1.98	2.09	31.44	1.96
Citrus (2/1)	1.09	29.79	1.07	1.28	30.49	1.16	1.24	30.98	1.14
Raisin Grapes (3/16) (11 ft. row spacing)	1.41	24.93	1.33	1.67	24.87	1.49	1.60	25.63	1.47
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.61	27.41	1.54	1.90	27.32	1.70	1.83	28.03	1.68
Walnuts (4/8)	1.91	30.71	1.82	2.26	30.77	2.05	2.17	31.59	2.03
Stone Fruit (3/10)	1.84	31.27	1.75	2.18	31.30	1.98	2.09	32.15	1.96
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2020)	2.68			4.05			3.13		

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)	2.8	2.4	2.1	1.9	3.3	2.8	2.5	2.2	3.1	2.7	2.4	2.1
Pistachio (4/13)	2.8	2.5	2.2	1.9	3.4	2.9	2.6	2.3	3.2	2.8	2.5	2.2
Citrus (2/1)	1.7	1.5	1.3	1.1	2.0	1.7	1.5	1.3	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.2	1.9	1.7	1.5	2.6	2.2	2.0	1.8	2.5	2.1	1.9	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.5	2.1	1.9	1.7	2.9	2.5	2.2	2.0	2.8	2.4	2.2	1.9
Walnuts (4/8)	2.9	2.5	2.2	2.0	3.5	3.0	2.7	2.4	3.3	2.9	2.6	2.3
Stone Fruit (3/10)	2.8	2.5	2.2	1.9	3.4	2.9	2.6	2.3	3.2	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	661	567	496	449	779	661	590	519	732	638	567
Pistachio 106 Trees/A	698	623	548	473	847	722	648	573	797	698	623	548
Citrus 110 Trees/A	420	370	321	272	494	420	370	321	469	420	370	321
Raisin Grapes 566 Vines/A	106	91	82	72	125	106	96	86	120	101	91	82
Winegrapes 622 Vines/A	109	92	83	74	127	109	96	87	122	105	96	83
Walnuts 76 Trees/A	1036	893	786	715	1251	1072	965	857	1179	1036	929	822
Stonefruit 172 Trees/A	442	395	347	300	537	458	410	363	505	442	395	347

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.