

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _c) 07/17/20 through 07/23/20														
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove					
	7/17- 7/23 Water Use	Accum'd Seasonal Water Use	7/24- 7/30 Estimated ETc		7/17- 7/23 Water Use	Accum'd Seasonal Water Use	7/24- 7/30 Estimated ETc		7/17- 7/23 Water Use	Accum'd Seasonal Water Use	7/24- 7/30 Estimated ETc			
Almonds (3/5) *	1.94	27.79	2.02		2.04	28.09	1.91		1.96	26.42	1.92			
Pistachio (4/13) * **	2.00	20.59	2.09		2.10	20.93	1.98		2.02	19.99	1.99			
Citrus (2/1)	1.18	23.55	1.25		1.24	23.37	1.14		1.20	22.09	1.15			
Raisin Grapes (3/16) (11 ft. row spacing)	1.52	17.56	1.60		1.60	17.81	1.49		1.54	17.09	1.50			
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.73	19.03	1.81		1.83	19.29	1.70		1.75	18.38	1.71			
Walnuts (4/8)	1.88	20.26	2.16		1.98	20.59	2.05		1.90	19.61	2.06			
Stone Fruit (3/10)	1.87	21.06	2.07		1.97	21.38	1.96		1.89	20.23	1.97			
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			
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	3.0	2.6	2.3	2.0		3.1	2.7	2.4	2.1		3.0	2.6	2.3	2.1
Pistachio (4/13)	3.1	2.7	2.4	2.1		3.2	2.8	2.5	2.2		3.1	2.7	2.4	2.1
Citrus (2/1)	1.8	1.6	1.4	1.2		1.9	1.7	1.5	1.3		1.8	1.6	1.4	1.3
Raisin Grapes (3/16) (11 ft. row spacing)***	2.3	2.0	1.8	1.6		2.5	2.1	1.9	1.7		2.4	2.1	1.8	1.6
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	2.7	2.3	2.0	1.8		2.8	2.4	2.2	1.9		2.7	2.3	2.1	1.8
Walnuts (4/8)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1		2.9	2.5	2.2	2.0
Stone Fruit (3/10)	2.9	2.5	2.2	2.0		3.0	2.6	2.3	2.1		2.9	2.5	2.2	2.0
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	708	614	543	472		732	638	567	496		708	614	543	496
Pistachio 106 Trees/A	772	673	598	523		797	698	623	548		772	673	598	523
Citrus 110 Trees/A	444	395	346	296		469	420	370	321		444	395	346	321
Raisin Grapes 566 Vines/A	110	96	86	77		120	101	91	82		115	101	86	77
Winegrapes 622 Vines/A	118	100	87	79		122	105	96	83		118	100	92	79
Walnuts 76 Trees/A	1036	893	786	715		1072	929	822	750		1036	893	786	715
Stonefruit 172 Trees/A	458	395	347	316		474	410	363	332		458	395	347	316

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)
07/17/20 through 07/23/20

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	7/17- 7/23 Water Use	Accum'd Seasonal Water Use	7/24 - 7/30 Estimated ETc	7/17- 7/23 Water Use	Accum'd Seasonal Water Use	7/24 - 7/30 Estimated ETc	7/17- 7/23 Water Use	Accum'd Seasonal Water Use	7/24 - 7/30 Estimated ETc
Almonds (3/5) *	2.14	29.82	1.97	2.06	30.15	2.10	2.15	31.17	2.10
Pistachio (4/13) * **	2.21	22.30	2.04	2.12	22.04	2.17	2.22	22.96	2.17
Citrus (2/1)	1.31	24.78	1.20	1.25	25.42	1.26	1.32	25.94	1.26
Raisin Grapes (3/16) (11 ft. row spacing)	1.68	18.50	1.55	1.62	18.34	1.68	1.67	19.15	1.68
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.93	20.03	1.76	1.85	19.85	1.89	1.94	20.62	1.89
Walnuts (4/8)	2.08	22.00	2.11	2.00	21.93	2.24	2.09	22.82	2.24
Stone Fruit (3/10)	2.10	22.85	2.02	1.99	22.77	2.15	2.10	23.69	2.15
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)	3.3	2.9	2.5	2.3	3.2	2.7	2.4	2.2	3.3	2.9	2.5	2.3
Pistachio (4/13)	3.4	2.9	2.6	2.3	3.3	2.8	2.5	2.2	3.4	3.0	2.6	2.3
Citrus (2/1)	2.0	1.7	1.5	1.4	1.9	1.7	1.5	1.3	2.0	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.6	2.2	2.0	1.8	2.5	2.2	1.9	1.7	2.6	2.2	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	3.0	2.6	2.3	2.0	2.8	2.5	2.2	1.9	3.0	2.6	2.3	2.0
Walnuts (4/8)	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1	3.2	2.8	2.5	2.2
Stone Fruit (3/10)	3.2	2.8	2.5	2.2	3.1	2.7	2.3	2.1	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			
	779	685	590	543	756	638	567	519	779	685	590	543
Almonds 115 Trees/A	779	685	590	543	756	638	567	519	779	685	590	543
Pistachio 106 Trees/A	847	722	648	573	822	698	623	548	847	747	648	573
Citrus 110 Trees/A	494	420	370	346	469	420	370	321	494	444	395	346
Raisin Grapes 566 Vines/A	125	106	96	86	120	106	91	82	125	106	96	86
Winegrapes 622 Vines/A	131	114	100	87	122	109	96	83	131	114	100	87
Walnuts 76 Trees/A	1143	1000	857	786	1108	965	857	750	1143	1000	893	786
Stonefruit 172 Trees/A	505	442	395	347	489	426	363	332	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.