

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _c) 06/19/20 through 06/25/20												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	6/19 - 6/25 Water Use	Accum'd Seasonal Water Use	6/26 - 7/2 Estimated ETc		6/19 - 6/25 Water Use	Accum'd Seasonal Water Use	6/26 - 7/2 Estimated ETc		6/19 - 6/25 Water Use	Accum'd Seasonal Water Use	6/26 - 7/2 Estimated ETc	
Almonds (3/5) *	2.12	19.68	2.04		2.11	19.61	1.97		1.97	18.30	1.97	
Pistachio (4/13) * **	2.26	12.15	2.17		2.24	12.14	2.10		2.11	11.54	2.10	
Citrus (2/1)	1.35	18.58	1.26		1.34	18.17	1.26		1.24	17.10	1.26	
Raisin Grapes (3/16) (11 ft. row spacing)	1.71	11.10	1.68		1.69	11.12	1.61		1.61	10.62	1.61	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.90	11.76	1.82		1.88	11.69	1.75		1.76	11.09	1.75	
Walnuts (4/8)	1.85	12.79	1.82		1.83	12.77	1.75		1.71	12.13	1.75	
Stone Fruit (3/10)	1.79	13.59	1.82		1.77	13.54	1.75		1.66	12.74	1.75	
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)	3.3	2.8	2.5	2.2	3.2	2.8	2.5	2.2	3.0	2.6	2.3	2.1
Pistachio (4/13)	3.5	3.0	2.7	2.4	3.4	3.0	2.6	2.4	3.2	2.8	2.5	2.2
Citrus (2/1)	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)***	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8	2.5	2.1	1.9	1.7
Winegrapes (3/16) (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	2.1	1.9
Walnuts (4/8)	2.8	2.5	2.2	1.9	2.8	2.4	2.2	1.9	2.6	2.3	2.0	1.8
Stone Fruit (3/10)	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9	2.6	2.2	2.0	1.7
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			
	779	661	590	519	756	661	590	519	708	614	543	496
Almonds 115 Trees/A	779	661	590	519	756	661	590	519	708	614	543	496
Pistachio 106 Trees/A	872	747	673	598	847	747	648	598	797	698	623	548
Citrus 110 Trees/A	518	444	395	346	518	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	125	110	96	86	125	110	96	86	120	101	91	82
Winegrapes 622 Vines/A	127	109	96	87	127	109	96	87	118	100	92	83
Walnuts 76 Trees/A	1000	893	786	679	1000	857	786	679	929	822	715	643
Stonefruit 172 Trees/A	442	379	332	300	426	379	332	300	410	347	316	268

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)											
06/19/20 through 06/25/20											
Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/19- 6/25	Accum'd	6/26- 7/2		6/19- 6/25	Accum'd	6/26- 7/2		6/19- 6/25	Accum'd	6/26- 7/2
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc
Almonds (3/5) *	2.28	20.73	2.11		2.19	21.54	2.24		2.31	22.07	2.24
Pistachio (4/13) * **	2.42	12.96	2.24		2.32	13.13	2.31		2.44	13.59	2.31
Citrus (2/1)	1.44	19.25	1.33		1.37	20.14	1.40		1.44	20.36	1.40
Raisin Grapes (3/16) (11 ft. row spacing)	1.84	11.34	1.68		1.77	11.55	1.75		1.86	12.01	1.75
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.02	11.99	1.89		1.93	12.18	1.96		2.04	12.54	1.96
Walnuts (4/8)	1.99	13.64	1.89		1.91	13.99	1.96		2.01	14.43	1.96
Stone Fruit (3/10)	1.93	14.41	1.89		1.85	14.80	1.96		1.94	15.23	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 >>														
Almonds (3/5)	3.5	3.0	2.7	2.4		3.4	2.9	2.6	2.3		3.6	3.1	2.7	2.4
Pistachio (4/13)	3.7	3.2	2.8	2.5		3.6	3.1	2.7	2.4		3.8	3.3	2.9	2.6
Citrus (2/1)	2.2	1.9	1.7	1.5		2.1	1.8	1.6	1.4		2.2	1.9	1.7	1.5
Raisin Grapes (3/16) (11 ft. row spacing)	2.8	2.5	2.2	1.9		2.7	2.4	2.1	1.9		2.9	2.5	2.2	2.0
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	3.1	2.7	2.4	2.1		3.0	2.6	2.3	2.0		3.1	2.7	2.4	2.1
Walnuts (4/8)	3.1	2.7	2.3	2.1		2.9	2.5	2.2	2.0		3.1	2.7	2.4	2.1
Stone Fruit (3/10)	3.0	2.6	2.3	2.0		2.8	2.5	2.2	1.9		3.0	2.6	2.3	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	#124 Panoche					#2 Five Points					#15 Stratford			
Almonds 115 Trees/A	826	708	638	567		803	685	614	543		850	732	638	567
Pistachio 106 Trees/A	922	797	698	623		897	772	673	598		947	822	722	648
Citrus 110 Trees/A	543	469	420	370		518	444	395	346		543	469	420	370
Raisin Grapes 566 Vines/A	134	120	106	91		130	115	101	91		139	120	106	96
Winegrapes 622 Vines/A	135	118	105	92		131	114	100	87		135	118	105	92
Walnuts 76 Trees/A	1108	965	822	750		1036	893	786	715		1108	965	857	750
Stonefruit 172 Trees/A	474	410	363	316		442	395	347	300		474	410	363	316

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