

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET _c) 07/26/19 through 08/01/19														
Crops (Leafout Date)	#148 Merced					#39 Parlier					#258 Lemon Cove			
	7/26- 8/1 Water Use	Accum'd Seasonal Water Use	8/2- 8/8 Estimated ETc			7/26- 8/1 Water Use	Accum'd Seasonal Water Use	8/2- 8/8 Estimated ETc			7/26- 8/1 Water Use	Accum'd Seasonal Water Use	8/2- 8/8 Estimated ETc	
Almonds (3/10) *	1.94	27.04	1.96		2.13	29.14	1.82		2.03	27.61	1.85			
Pistachio (4/19) * **	2.01	20.61	2.03		2.20	22.08	1.82		2.10	21.07	1.88			
Citrus (2/1)	1.17	21.96	1.19		1.30	23.71	1.12		1.23	22.31	1.12			
Raisin Grapes (3/16) (11 ft. row spacing)	1.52	18.59	1.54		1.65	19.81	1.40		1.58	18.88	1.43			
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.73	20.05	1.75		1.92	21.64	1.61		1.82	20.55	1.64			
Walnuts (4/15)	1.96	18.92	2.10		2.15	20.38	1.89		2.05	19.32	1.95			
Stone Fruit (3/20)	1.87	19.50	1.99		2.08	20.98	1.80		1.96	19.82	1.84			
Past 7 days precipitation (inches)	0.00					0.00					0.00			
Accumulated precipitation (inches) (1/1/2019)	11.08					7.89					10.81			
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. *** CIMIS station #188 Madera II has been taken out of service due to a conversion of the pasture to permanent crops. For the remainder of 2018 irrigation season Historical Average ET _o will be used for the weekly report.														
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 >>														
Almonds (3/10)	3.0	2.6	2.3	2.0		3.3	2.8	2.5	2.2		3.1	2.7	2.4	2.1
Pistachio (4/19)	3.1	2.7	2.4	2.1		3.4	2.9	2.6	2.3		3.2	2.8	2.5	2.2
Citrus (2/1)	1.8	1.6	1.4	1.2		2.0	1.7	1.5	1.4		1.9	1.6	1.4	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.3	2.0	1.8	1.6		2.5	2.2	1.9	1.7		2.4	2.1	1.9	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.7	2.3	2.0	1.8		3.0	2.6	2.3	2.0		2.8	2.4	2.1	1.9
Walnuts (4/15)	3.0	2.6	2.3	2.1		3.3	2.9	2.5	2.3		3.2	2.7	2.4	2.2
Stone Fruit (3/20)	2.9	2.5	2.2	2.0		3.2	2.8	2.4	2.2		3.0	2.6	2.3	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			
Almonds 115 Trees/A	708	614	543	472		779	661	590	519		732	638	567	496
Pistachio 106 Trees/A	772	673	598	523		847	722	648	573		797	698	623	548
Citrus 110 Trees/A	444	395	346	296		494	420	370	346		469	395	346	321
Raisin Grapes 566 Vines/A	110	96	86	77		120	106	91	82		115	101	91	82
Winegrapes 622 Vines/A	118	100	87	79		131	114	100	87		122	105	92	83
Walnuts 76 Trees/A	1072	929	822	750		1179	1036	893	822		1143	965	857	786
Stonefruit 172 Trees/A	458	395	347	316		505	442	379	347		474	410	363	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)

07/26/19 through 08/01/19

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	7/26- 8/1 Water Use	Accum'd Seasonal Water Use	8/2- 8/8 Estimated ETc		7/26- 8/1 Water Use	Accum'd Seasonal Water Use	8/2- 8/8 Estimated ETc		7/26- 8/1 Water Use	Accum'd Seasonal Water Use	8/2- 8/8 Estimated ETc
Almonds (3/10) *	2.31	31.53	1.89		2.25	31.64	2.08		2.18	29.91	2.06
Pistachio (4/19) * **	2.36	24.16	1.96		2.32	23.51	2.15		2.25	22.39	2.13
Citrus (2/1)	1.41	25.38	1.12		1.37	26.09	1.26		1.33	24.34	1.26
Raisin Grapes (3/16) (11 ft. row spacing)	1.80	21.77	1.47		1.76	21.30	1.61		1.70	20.15	1.61
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.08	23.57	1.68		2.04	23.23	1.87		1.97	21.96	1.85
Walnuts (4/15)	2.32	22.27	2.03		2.27	21.77	2.22		2.20	20.59	2.20
Stone Fruit (3/20)	2.27	22.89	1.92		2.23	22.63	2.11		2.14	21.46	2.09
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2019)	4.80				7.42				7.08		

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 (3/10)	3.6	3.1	2.7	2.4		3.5	3.0	2.6	2.4		3.4	2.9	2.6	2.3
Pistachio (4/19)	3.6	3.1	2.8	2.5		3.6	3.1	2.7	2.4		3.5	3.0	2.6	2.4
Citrus (2/1)	2.2	1.9	1.7	1.5		2.1	1.8	1.6	1.4		2.0	1.8	1.6	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.8	2.4	2.1	1.9		2.7	2.3	2.1	1.9		2.6	2.3	2.0	1.8
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	3.2	2.8	2.4	2.2		3.1	2.7	2.4	2.1		3.0	2.6	2.3	2.1
Walnuts (4/15)	3.6	3.1	2.7	2.4		3.5	3.0	2.7	2.4		3.4	2.9	2.6	2.3
Stone Fruit (3/20)	3.5	3.0	2.7	2.4		3.4	3.0	2.6	2.3		3.3	2.9	2.5	2.3

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			
	850	732	638	567		826	708	614	567		803	685	614	543
Almonds 115 Trees/A	850	732	638	567		826	708	614	567		803	685	614	543
Pistachio 106 Trees/A	897	772	698	623		897	772	673	598		872	747	648	598
Citrus 110 Trees/A	543	469	420	370		518	444	395	346		494	444	395	346
Raisin Grapes 566 Vines/A	134	115	101	91		130	110	101	91		125	110	96	86
Winegrapes 622 Vines/A	140	122	105	96		135	118	105	92		131	114	100	92
Walnuts 76 Trees/A	1286	1108	965	857		1251	1072	965	857		1215	1036	929	822
Stonefruit 172 Trees/A	553	474	426	379		537	474	410	363		521	458	395	363

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