



<b>WEEKLY SOIL MOISTURE LOSS IN INCHES</b>												
<b>(Estimated Crop Evapotranspiration or ET<sub>c</sub>)</b>												
<b>07/24/20 through 07/30/20</b>												
<b>Crops (Leafout Date)</b>	<b>#148 Merced</b>				<b>#39 Parlier</b>				<b>#258 Lemon Cove</b>			
	7/24- 7/30 Water Use	Accum'd Seasonal Water Use	7/31- 8/6 Estimated ET <sub>c</sub>		7/24- 7/30 Water Use	Accum'd Seasonal Water Use	7/31- 8/6 Estimated ET <sub>c</sub>		7/24- 7/30 Water Use	Accum'd Seasonal Water Use	7/31- 8/6 Estimated ET <sub>c</sub>	
Almonds (3/5) *	1.99	29.76	1.96		2.09	30.18	1.85		1.92	28.33	1.87	
Pistachio (4/13) * **	2.06	22.63	2.03		2.16	23.09	1.88		1.97	21.95	1.92	
Citrus (2/1)	1.21	24.74	1.19		1.27	24.64	1.12		1.17	23.25	1.12	
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.57	19.11	1.54		1.66	19.47	1.43		1.50	18.58	1.45	
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***	1.78	20.79	1.75		1.88	21.17	1.64		1.71	20.08	1.66	
Walnuts (4/8)	2.13	22.37	2.10		2.23	22.82	1.95		2.04	21.64	1.99	
Stone Fruit (3/10 )	2.04	23.08	2.03		2.14	23.52	1.88		1.95	22.17	1.92	
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00			
<b>Accumulated precipitation (inches) (1/1/2020)</b>	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.												
<b>PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup></b>												
<b>Crops</b>	<b>#148 Merced</b>				<b>#39 Parlier</b>				<b>#258 Lemon Cove</b>			
	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)	3.1	2.7	2.3	2.1	3.2	2.8	2.5	2.2	3.0	2.6	2.3	2.0
Pistachio (4/13)	3.2	2.7	2.4	2.2	3.3	2.9	2.5	2.3	3.0	2.6	2.3	2.1
Citrus (2/1)	1.9	1.6	1.4	1.3	2.0	1.7	1.5	1.3	1.8	1.6	1.4	1.2
Raisin Grapes (3/16 ) (11 ft. row spacing)***	2.4	2.1	1.8	1.7	2.6	2.2	2.0	1.7	2.3	2.0	1.8	1.6
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***	2.7	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.6	2.3	2.0	1.8
Walnuts (4/8)	3.3	2.8	2.5	2.2	3.4	3.0	2.6	2.3	3.1	2.7	2.4	2.1
Stone Fruit (3/10 )	3.1	2.7	2.4	2.1	3.3	2.9	2.5	2.3	3.0	2.6	2.3	2.1
<sup>1</sup> 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%.												
<b>PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE</b>												
<b>Crops</b>	<b>#148 Merced</b>				<b>#39 Parlier</b>				<b>#258 Lemon Cove</b>			
Almonds 115 Trees/A	732	638	543	496	756	661	590	519	708	614	543	472
Pistachio 106 Trees/A	797	673	598	548	822	722	623	573	747	648	573	523
Citrus 110 Trees/A	469	395	346	321	494	420	370	321	444	395	346	296
Raisin Grapes 566 Vines/A	115	101	86	82	125	106	96	82	110	96	86	77
Winegrapes 622 Vines/A	118	105	92	83	127	109	96	87	114	100	87	79
Walnuts 76 Trees/A	1179	1000	893	786	1215	1072	929	822	1108	965	857	750
Stonefruit 172 Trees/A	489	426	379	332	521	458	395	363	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<sub>c</sub>)  
07/24/20 through 07/30/20

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	7/24 - 7/30 Water Use	Accum'd Seasonal Water Use	7/31 - 8/6 Estimated ETc		7/24 - 7/30 Water Use	Accum'd Seasonal Water Use	7/31 - 8/6 Estimated ETc		7/24 - 7/30 Water Use	Accum'd Seasonal Water Use	7/31 - 8/6 Estimated ETc
Almonds (3/5) *	2.25	32.07	1.91		2.23	32.36	2.10		2.24	33.38	2.07
Pistachio (4/13) * **	2.32	24.62	1.98		2.30	24.32	2.17		2.30	25.23	2.14
Citrus (2/1)	1.38	26.16	1.14		1.37	26.78	1.26		1.37	27.29	1.26
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.76	20.26	1.49		1.76	20.08	1.68		1.75	20.88	1.65
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	2.04	22.07	1.70		2.02	21.85	1.89		2.02	22.61	1.86
Walnuts (4/8)	2.39	24.39	2.05		2.37	24.28	2.24		2.37	25.16	2.21
Stone Fruit (3/10 )	2.30	25.15	1.98		2.28	25.03	2.17		2.28	25.94	2.14
<b>Past 7 days precipitation (inches)</b>	0.00				0.00				0.00		
<b>Accumulated precipitation (inches) (1/1/2020)</b>	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 <sup>1</sup>**

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	2.6	2.4		3.4	3.0	2.6	2.3		3.4	3.0	2.6	2.4
Pistachio (4/13)	3.6	3.1	2.7	2.4		3.5	3.1	2.7	2.4		3.5	3.1	2.7	2.4
Citrus (2/1)	2.1	1.8	1.6	1.5		2.1	1.8	1.6	1.4		2.1	1.8	1.6	1.4
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.7	2.3	2.1	1.9		2.7	2.3	2.1	1.9		2.7	2.3	2.1	1.8
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	3.1	2.7	2.4	2.1		3.1	2.7	2.4	2.1		3.1	2.7	2.4	2.1
Walnuts (4/8)	3.7	3.2	2.8	2.5		3.6	3.2	2.8	2.5		3.6	3.2	2.8	2.5
Stone Fruit (3/10 )	3.5	3.1	2.7	2.4		3.5	3.0	2.7	2.4		3.5	3.0	2.7	2.4

<sup>1</sup> 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			
	826	708	614	567		803	708	614	543		803	708	614	567
Almonds 115 Trees/A	826	708	614	567		803	708	614	543		803	708	614	567
Pistachio 106 Trees/A	897	772	673	598		872	772	673	598		872	772	673	598
Citrus 110 Trees/A	518	444	395	370		518	444	395	346		518	444	395	346
Raisin Grapes 566 Vines/A	130	110	101	91		130	110	101	91		130	110	101	86
Winegrapes 622 Vines/A	135	118	105	92		135	118	105	92		135	118	105	92
Walnuts 76 Trees/A	1322	1143	1000	893		1286	1143	1000	893		1286	1143	1000	893
Stonefruit 172 Trees/A	553	489	426	379		553	474	426	379		553	474	426	379

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