



<b>WEEKLY SOIL MOISTURE LOSS IN INCHES</b>														
<b>(Estimated Crop Evapotranspiration or ET<sub>c</sub>)</b>														
<b>06/26/20 through 07/02/20</b>														
<b>Crops (Leafout Date)</b>	<b>#148 Merced</b>					<b>#39 Parlier</b>					<b>#258 Lemon Cove</b>			
	6/26 - 7/2	Accum'd	7/3- 7/9		6/26 - 7/2	Accum'd	7/3- 7/9		6/26 - 7/2	Accum'd	7/3- 7/9			
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated			
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc			
Almonds (3/5) *	2.01	21.69	2.10		2.12	21.73	2.03		1.99	20.29	2.03			
Pistachio (4/13) * **	2.14	14.29	2.17		2.23	14.37	2.10		2.12	13.66	2.10			
Citrus (2/1)	1.26	19.84	1.26		1.32	19.49	1.26		1.25	18.35	1.26			
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.64	12.74	1.68		1.70	12.82	1.61		1.62	12.24	1.61			
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***	1.80	13.56	1.89		1.89	13.58	1.82		1.79	12.88	1.82			
Walnuts (4/8)	1.79	14.58	1.88		1.88	14.65	1.81		1.77	13.90	1.81			
Stone Fruit (3/10 )	1.79	15.38	1.82		1.88	15.42	1.75		1.78	14.52	1.75			
<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>			
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	3.1	2.7	2.4	2.1		3.3	2.8	2.5	2.2		3.1	2.7	2.3	2.1
Pistachio (4/13)	3.3	2.9	2.5	2.3		3.4	3.0	2.6	2.3		3.3	2.8	2.5	2.2
Citrus (2/1)	1.9	1.7	1.5	1.3		2.0	1.8	1.6	1.4		1.9	1.7	1.5	1.3
Raisin Grapes (3/16 ) (11 ft. row spacing)***	2.5	2.2	1.9	1.7		2.6	2.3	2.0	1.8		2.5	2.2	1.9	1.7
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.8	2.4	2.1	1.9
Walnuts (4/8)	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.7	2.4	2.1	1.9
Stone Fruit (3/10 )	2.8	2.4	2.1	1.9		2.9	2.5	2.2	2.0		2.7	2.4	2.1	1.9
<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	567	496		779	661	590	519		732	638	543	496
Pistachio 106 Trees/A	822	722	623	573		847	747	648	573		822	698	623	548
Citrus 110 Trees/A	469	420	370	321		494	444	395	346		469	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82		125	110	96	86		120	106	91	82
Winegrapes 622 Vines/A	122	105	92	83		127	109	96	87		122	105	92	83
Walnuts 76 Trees/A	1000	857	750	679		1036	893	786	715		965	857	750	679
Stonefruit 172 Trees/A	442	379	332	300		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<sub>c</sub>)

06/26/20 through 07/02/20

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/26- 7/2 Water Use	Accum'd Seasonal Water Use	7/3- 7/9 Estimated ETc		6/26- 7/2 Water Use	Accum'd Seasonal Water Use	7/3- 7/9 Estimated ETc		6/26- 7/2 Water Use	Accum'd Seasonal Water Use	7/3- 7/9 Estimated ETc
Almonds (3/5) *	2.25	23.03	2.12		2.15	23.69	2.18		2.28	24.35	2.24
Pistachio (4/13) * **	2.33	15.33	2.19		2.25	15.38	2.25		2.37	15.96	2.31
Citrus (2/1)	1.38	20.65	1.28		1.33	21.47	1.34		1.41	21.77	1.40
Raisin Grapes (3/16 ) (11 ft. row spacing)	1.78	13.16	1.68		1.72	13.27	1.69		1.81	13.82	1.75
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	1.98	14.00	1.84		1.90	14.08	1.90		2.02	14.56	1.96
Walnuts (4/8)	1.98	15.66	1.90		1.90	15.89	1.96		2.02	16.45	2.02
Stone Fruit (3/10 )	1.98	16.43	1.84		1.90	16.70	1.90		2.02	17.25	1.96
<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		3.3	2.9	2.5	2.3		3.5	3.0	2.7	2.4
Pistachio (4/13)	3.6	3.1	2.7	2.5		3.5	3.0	2.6	2.4		3.6	3.2	2.8	2.5
Citrus (2/1)	2.1	1.8	1.6	1.5		2.0	1.8	1.6	1.4		2.2	1.9	1.7	1.5
Raisin Grapes (3/16 ) (11 ft. row spacing)	2.7	2.4	2.1	1.9		2.6	2.3	2.0	1.8		2.8	2.4	2.1	1.9
Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis)	3.0	2.6	2.3	2.1		2.9	2.5	2.2	2.0		3.1	2.7	2.4	2.1
Walnuts (4/8)	3.0	2.6	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	2.1		2.9	2.5	2.2	2.0		3.1	2.7	2.4	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%.

**PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE**

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
	826	708	614	567		779	685	590	543		826	708	638	567
Almonds 115 Trees/A	826	708	614	567		779	685	590	543		826	708	638	567
Pistachio 106 Trees/A	897	772	673	623		872	747	648	598		897	797	698	623
Citrus 110 Trees/A	518	444	395	370		494	444	395	346		543	469	420	370
Raisin Grapes 566 Vines/A	130	115	101	91		125	110	96	86		134	115	101	91
Winegrapes 622 Vines/A	131	114	100	92		127	109	96	87		135	118	105	92
Walnuts 76 Trees/A	1072	929	822	750		1036	893	786	715		1108	965	857	750
Stonefruit 172 Trees/A	474	410	363	332		458	395	347	316		489	426	379	332

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