

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/11/21 through 06/17/21

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	6/11 - 6/17 Water Use	Accum'd Seasonal Water Use	6/18 - 6/24 Estimated ETc	6/11 - 6/17 Water Use	Accum'd Seasonal Water Use	6/18 - 6/24 Estimated ETc	6/11 - 6/17 Water Use	Accum'd Seasonal Water Use	6/18 - 6/24 Estimated ETc
Almonds (3/5) *	1.87	18.14	1.96	1.92	18.89	1.96	1.82	18.15	1.95
Pistachio (4/16) * **	2.07	11.91	2.10	2.12	12.57	2.10	2.02	11.98	2.09
Citrus (2/1)	1.22	17.22	1.26	1.25	17.84	1.26	1.19	17.03	1.25
Raisin Grapes (3/12) (11 ft. row spacing)	1.56	10.12	1.61	1.59	10.78	1.61	1.52	10.22	1.60
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	1.67	10.55	1.75	1.72	11.07	1.75	1.63	10.61	1.74
Walnuts (4/5)	1.80	14.02	1.89	1.85	14.72	1.89	1.75	14.08	1.88
Stone Fruit (3/10)	1.58	11.88	1.63	1.63	12.43	1.63	1.56	11.96	1.62
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2021)	5.54			3.66			3.90		

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)	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.0	2.8	2.4	2.1	1.9
Pistachio (4/16)	3.2	2.8	2.4	2.2	3.3	2.8	2.5	2.2	3.1	2.7	2.4	2.1
Citrus (2/1)	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.8	1.6	1.4	1.3
Raisin Grapes (3/12) (11 ft. row spacing)***	2.4	2.1	1.8	1.6	2.4	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis) ***	2.6	2.2	2.0	1.8	2.6	2.3	2.0	1.8	2.5	2.2	1.9	1.7
Walnuts (4/5)	2.8	2.4	2.1	1.9	2.8	2.5	2.2	1.9	2.7	2.3	2.1	1.8
Stone Fruit (3/10)	2.4	2.1	1.9	1.7	2.5	2.2	1.9	1.7	2.4	2.1	1.8	1.6

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			
	685	590	519	472	708	614	543	472	661	567	496	449
Almonds 115 Trees/A	685	590	519	472	708	614	543	472	661	567	496	449
Pistachio 106 Trees/A	797	698	598	548	822	698	623	548	772	673	598	523
Citrus 110 Trees/A	469	395	346	321	469	420	370	321	444	395	346	321
Raisin Grapes 566 Vines/A	115	101	86	77	115	101	91	82	110	96	86	77
Winegrapes 622 Vines/A	114	96	87	79	114	100	87	79	109	96	83	74
Walnuts 76 Trees/A	1000	857	750	679	1000	893	786	679	965	822	750	643
Stonefruit 172 Trees/A	379	332	300	268	395	347	300	268	379	332	284	253

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)
06/11/21 through 06/17/21

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	6/11- 6/17 Water Use	Accum'd Seasonal Water Use	6/18- 6/24 Estimated ETc		6/11- 6/17 Water Use	Accum'd Seasonal Water Use	6/18- 6/24 Estimated ETc		6/11- 6/17 Water Use	Accum'd Seasonal Water Use	6/18- 6/24 Estimated ETc
Almonds (3/5) *	2.12	20.07	2.12		2.16	20.80	2.17		2.21	20.74	2.17
Pistachio (4/16) * **	2.33	13.74	2.26		2.38	13.92	2.31		2.43	13.97	2.31
Citrus (2/1)	1.39	19.25	1.35		1.41	20.11	1.40		1.44	19.81	1.40
Raisin Grapes (3/12) (11 ft. row spacing)	1.76	11.65	1.70		1.80	11.81	1.75		1.85	11.87	1.75
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	1.91	12.04	1.84		1.95	12.29	1.89		1.99	12.29	1.89
Walnuts (4/5)	2.06	16.00	2.05		2.10	16.37	2.10		2.15	16.32	2.10
Stone Fruit (3/10)	1.83	13.42	1.79		1.87	13.82	1.84		1.92	13.75	1.84
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2021)	3.83				4.65				3.06		

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	2.8	2.5	2.2		3.3	2.9	2.5	2.3		3.4	2.9	2.6	2.3
Pistachio (4/16)	3.6	3.1	2.7	2.5		3.7	3.2	2.8	2.5		3.7	3.2	2.9	2.6
Citrus (2/1)	2.1	1.9	1.6	1.5		2.2	1.9	1.7	1.5		2.2	1.9	1.7	1.5
Raisin Grapes (3/12) (11 ft. row spacing)	2.7	2.3	2.1	1.9		2.8	2.4	2.1	1.9		2.8	2.5	2.2	1.9
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	2.9	2.5	2.2	2.0		2.9	2.5	2.2	2.0		3.1	2.7	2.3	2.1
Walnuts (4/5)	3.2	2.7	2.4	2.2		3.2	2.8	2.5	2.2		3.3	2.9	2.5	2.3
Stone Fruit (3/10)	2.8	2.4	2.2	1.9		2.9	2.5	2.2	2.0		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			
	779	661	590	519		779	685	590	543		803	685	614	543
Almonds 115 Trees/A	779	661	590	519		779	685	590	543		803	685	614	543
Pistachio 106 Trees/A	897	772	673	623		922	797	698	623		922	797	722	648
Citrus 110 Trees/A	518	469	395	370		543	469	420	370		543	469	420	370
Raisin Grapes 566 Vines/A	130	110	101	91		134	115	101	91		134	120	106	91
Winegrapes 622 Vines/A	127	109	96	87		127	109	96	87		135	118	100	92
Walnuts 76 Trees/A	1143	965	857	786		1143	1000	893	786		1179	1036	893	822
Stonefruit 172 Trees/A	442	379	347	300		458	395	347	316		474	410	363	316

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