UCCE/DWR Weekly Crop Water Use Report





WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C) 06/30/23 through 07/06/23

Crops (Leafout Date)	;	#148 Merced			#39 Parlier				#258 Lemon Cove		
	6/30- 7/6	Accum'd	7/7- 7/13		6/30- 7/6	Accum'd	7/7- 7/13		6/30- 7/6	Accum'd	7/7-7/13
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc
Almonds (3/13) *	2.08	20.72	2.10		2.16	22.00	2.02		2.21	21.30	2.03
Pistachio (4/20) * **	2.15	14.65	2.17		2.23	15.50	2.09		2.28	15.22	2.10
Citrus (2/1)	1.28	17.67	1.26		1.32	18.92	1.25		1.36	18.21	1.26
Raisin Grapes (3/22) (11 ft. row spacing)	1.39	9.54	1.43		1.44	10.06	1.36		1.47	9.93	1.37
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.53	10.10	1.55		1.60	10.71	1.48		1.64	10.52	1.49
Walnuts (4/20)	1.82	12.91	1.96		1.90	13.71	1.88		1.95	13.51	1.89
Stone Fruit (3/19)	1.99	15.99	2.03		2.07	16.84	1.95		2.15	16.50	1.96
Past 7 days precipitation (inches)		0.00			_	0.00		_		0.00	_
Accumulated precipitation (inches) (1/1/2023)		16.33				12.53				15.76	

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

^{**} 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.

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Crops		#148 Merc	ed			#39 Parlier	•		#258 Lemon Cove			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/13)	3.2	2.8	2.4	2.2	3.3	2.9	2.5	2.3	3.4	2.9	2.6	2.3
Pistachio (4/20)	3.3	2.9	2.5	2.3	3.4	3.0	2.6	2.3	3.5	3.0	2.7	2.4
Citrus (2/1)	2.0	1.7	1.5	1.3	2.0	1.8	1.6	1.4	2.1	1.8	1.6	1.4
Raisin Grapes (3/22) (11 ft. row spacing)	As	sume all gr	ape	1.5	Assume all grape			1.5	Assume all grape			1.5
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irriga	ation type is	s drip	1.6	irrigation type is drip			1.7	irrigation type is drip		1.7	
Walnuts (4/20)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	3.0	2.6	2.3	2.1
Stone Fruit (3/19)	3.1	2.7	2.3	2.1	3.2	2.8	2.4	2.2	3.3	2.9	2.5	2.3

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 Merce	ed			#39 Parlier			#258 Lemon Cove			
Almonds 115 Trees/A	756	661	567	519	779	685	590	543	803	685	614	543
Pistachio 106 Trees/A	822	722	623	573	847	747	648	573	872	747	673	598
Citrus 110 Trees/A	494	420	370	321	494	444	395	346	518	444	395	346
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape 72			72	Assume all grape			72
Winegrapes 622 Vines/A	irriga	ation type is	s drip	70	irrigation type is drip 74			74	irrigation type is drip			74
Walnuts 76 Trees/A	1000	857	750	679	1036	893	786	715	1072	929	822	750
Stonefruit 172 Trees/A	489	426	363	332	505	442	379	347	521	458	395	363
For further information concerning all counties receiving this report, contact	For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.											

^{*} 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.

University of California Agriculture and Natural Resources

Making a Difference for California



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WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C) 06/30/23 through 07/06/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points				#15 Stratford			
	6/30- 7/6	Accum'd	7/7- 7/13	6/30- 7/6	Accum'd	7/7-7/13		6/30- 7/6	Accum'd	7/7- 7/13	
	Water	Seasonal	Estimated	Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc	Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/13) *	2.35	22.12	2.13	2.25	21.80	2.17		2.43	23.99	2.23	
Pistachio (4/20) * **	2.42	15.83	2.20	2.32	15.41	2.24		2.50	16.92	2.30	
Citrus (2/1)	1.43	18.72	1.29	1.37	18.67	1.33		1.47	20.42	1.39	
Raisin Grapes (3/22) (11 ft. row spacing)	1.58	9.91	1.43	1.51	9.74	1.43		1.63	10.59	1.48	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.73	10.49	1.57	1.65	10.23	1.61		1.79	11.20	1.66	
Walnuts (4/20)	2.09	13.94	1.99	1.99	13.53	2.03		2.15	14.98	2.09	
Stone Fruit (3/19)	2.34	17.29	2.06	2.21	16.95	2.10		2.42	18.67	2.22	
Past 7 days precipitation (inches)		0.00	-		0.00		_		0.00	-	
Accumulated precipitation (inches) (1/1/2023)		6.18			7.65				7.90		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

^{**} 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 Pano	che		#2 Five Points					#15 Stratford			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/13)	3.6	3.1	2.8	2.5	3.5	3.0	2.6	2.4	3.7	3.2	2.9	2.6	
Pistachio (4/20)	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	2.3	2.0	1.7	1.5	
Raisin Grapes (3/22) (11 ft. row spacing)	As	sume all gr	ape	1.7	Assume all grape			1.6	Assume all grape			1.7	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irriga	ation type is	s drip	1.8	irriga	ation type is	s drip	1.7	irrigation type is drip		s drip	1.9	
Walnuts (4/20)	3.2	2.8	2.5	2.2	3.1	2.7	2.3	2.1	3.3	2.9	2.5	2.3	
Stone Fruit (3/19)	3.6	3.1	2.8	2.5	3.4	2.9	2.6	2.3	3.7	3.2	2.8	2.5	

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 Pano	che		#2 Five Points								
Almonds 115 Trees/A	850	732	661	590	826	708	614	567	874	756	685	614	
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	568	494	420	370	
Raisin Grapes 566 Vines/A	As	sume all gr	ape	82	Assume all grape			77	Assume all grape			82	
Winegrapes 622 Vines/A	irriga	ation type is	s drip	79	irrigation type is drip			74	irrigation type is drip		drip	83	
Walnuts 76 Trees/A	1143	1000	893	786	1108	965	822	750	1179	1036	893	822	
Stonefruit 172 Trees/A	568	489	442	395	537	458	410	363	584	505	442	395	
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