University of California Agriculture and Natural Resources Making a Difference for California



UCCE/DWR Weekly Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C) 07/21/23 through 07/27/23

Crops (Leafout Date)	,	4148 Merceo	<u> </u>		#39 Parlier			#258 Lemon Cove				
1 \	7/21- 7/27			7/21- 7/27	Accum'd	7/28- 8/3		7/21- 7/27	Accum'd	7/28-8/3		
	Water	Seasonal	Estimated	Water	Seasonal	Estimated		Water	Seasonal	Estimated		
	Use	Water Use	ETc	Use	Water Use	ETc		Use	Water Use	ETc		
Almonds (3/13) *	1.97	26.61	1.97	2.03	28.12	1.89	•	2.01	27.53	1.85		
Pistachio (4/20) * **	2.03	20.73	2.04	2.09	21.81	1.96		2.08	21.66	1.88		
Citrus (2/1)	1.21	21.25	1.20	1.24	22.67	1.12		1.22	22.01	1.12		
Raisin Grapes (3/22) (11 ft. row spacing)	1.32	13.47	1.32	1.36	14.16	1.25		1.35	14.10	1.22		
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.50	14.56	1.50	1.55	15.35	1.43		1.53	15.26	1.39		
Walnuts (4/20)	2.10	18.69	2.11	2.16	19.72	2.03		2.15	19.64	1.95		
Stone Fruit (3/19)	2.03	21.89	2.04	2.09	22.98	1.96		2.08	22.77	1.88		
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

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY 1

^{**} 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.

Crops		#148 Merc	ed			#39 Parlier	r ·		#258 Lemon Cove				
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/13)	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1	3.1	2.7	2.4	2.1	
Pistachio (4/20)	3.1	2.7	2.4	2.1	3.2	2.8	2.5	2.2	3.2	2.8	2.4	2.2	
Citrus (2/1)	1.9	1.6	1.4	1.3	1.9	1.7	1.5	1.3	1.9	1.6	1.4	1.3	
Raisin Grapes (3/22) (11 ft. row spacing)	As	Assume all grape			Assume all grape			1.4	Assume all grape			1.4	
Winegrapes (3/22) (10 ft spacing on California Sprawl Trellis)	irrio	irrigation type is drin			irrigation type is drin 16			irrigation type is drip			1.6		

Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis) irrigation type is drip irrigation type is drip Walnuts (4/20) 3.2 2.8 2.5 2.2 3.3 2.9 2.5 2.3 3.3 2.9 2.5 2.3 Stone Fruit (3/19) 3.1 2.7 2.4 2.1 3.2 2.8 2.5 2.2 3.2 2.4 2.2 2.8

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	496	732	638	567	496	732	638	567	496
Pistachio 106 Trees/A	772	673	598	523	797	698	623	548	797	698	598	548
Citrus 110 Trees/A	469	395	346	321	469	420	370	321	469	395	346	321
Raisin Grapes 566 Vines/A	As	sume all gra	ape	67	Assume all grape 67			Assume all grape			67	
Winegrapes 622 Vines/A	irriga	ation type is	drip	70	irrigation type is drip 70			irrigation type is drip			70	
Walnuts 76 Trees/A	1143	1000	893	786	1179	1036	893	822	1179	1036	893	822
Stonefruit 172 Trees/A	489	426	379	332	505	442	395	347	505	442	379	347
For further information concerning all counties receiving this report, contact	the Fresno (Co. Farm Ad	visor's offic	e at (559) 24	41-7526.							

^{*} 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.

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(Estimated Crop Evapotranspiration or ET_C) 07/21/23 through 07/27/23

Crops (Leafout Date)	#124 Panoche			#2 Five Points				#15 Stratford			
	7/21 - 7/27	Accum'd	7/28 - 8/3	7/21 - 7/27	Accum'd	7/28 - 8/3		7/21 - 7/27	Accum'd	7/28 - 8/3	
	Water	Seasonal	Estimated	Water	Seasonal	Estimated		Water	Seasonal	Estimated	1
	Use	Water Use	ETc	Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/13) *	2.19	28.73	1.96	2.12	28.13	2.11		2.30	30.86	2.10	
Pistachio (4/20) * **	2.26	22.64	2.03	2.19	21.94	2.18		2.36	23.94	2.17	
Citrus (2/1)	1.33	22.76	1.19	1.28	22.55	1.27		1.40	24.58	1.26	
Raisin Grapes (3/22) (11 ft. row spacing)	1.47	14.33	1.31	1.44	13.98	1.43		1.53	15.16	1.43	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	1.67	15.48	0.00	1.62	15.01	0.00		1.76	16.35	0.00	
Walnuts (4/20)	2.33	20.44	2.10	2.26	19.76	2.25		2.43	21.69	2.24	
Stone Fruit (3/19)	2.26	23.98	2.03	2.19	23.35	2.18		2.36	25.58	2.17	
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									
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/13)	3.4	2.9	2.6	2.3	3.3	2.8	2.5	2.2	3.5	3.1	2.7	2.4	
Pistachio (4/20)	3.5	3.0	2.7	2.4	3.4	2.9	2.6	2.3	3.6	3.1	2.8	2.5	
Citrus (2/1)	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.3	2.2	1.9	1.6	1.5	
Raisin Grapes (3/22) (11 ft. row spacing)	As	sume all gr	ape	1.5	As	Assume all grape		1.5	Assume all grape		ape	1.6	
Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)	irriga	ation type is	s drip	1.8	irrigation type is drip			1.7	irrigation type is drip			1.9	
Walnuts (4/20)	3.6	3.1	2.7	2.5	3.5	3.0	2.7	2.4	3.7	3.2	2.9	2.6	
Stone Fruit (3/19)	3.5	3.0	2.7	2.4	3.4	2.9	2.6	2.3	3.6	3.1	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%.

Crops		#124 Pano	che		#2 Five Points							
Almonds 115 Trees/A	803	803 685 614			779	661	590	519	826	732	638	567
Pistachio 106 Trees/A	872	747	673	598	847	722	648	573	897	772	698	623
Citrus 110 Trees/A	494	444	395	346	494	420	370	321	543	469	395	370
Raisin Grapes 566 Vines/A	As	sume all gr	rape	72	Assume all grape 72			72	Assume all grape			77
Winegrapes 622 Vines/A	irrig	ation type i	s drip	79	irrigation type is drip			74	irrigation type is drip		s drip	83
Walnuts 76 Trees/A	1286	1108	965	893	1251	1072	965	857	1322	1143	1036	929
Stonefruit 172 Trees/A	553	474	426	379	537	458	410	363	568	489	442	395
For further information concerning all counties receiving this r						458	410	363	568	489	442	-

^{*} 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.