University of California Agriculture and Natural Resources



UCCE/DWR Weekly Crop Water Use Report

Making a Difference for California

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C) 06/07/24 through 06/13/24

Crops (Leafout Date)	#	#148 Merced			#39 Parlier			#258 Lemon Cove		
	06/07 - 06/13	Accum'd	06/14 - 06/20		06/07 - 06/13	Accum'd	06/14 - 06/20	06/07 - 06/13	Accum'd	06/14 - 06/20
	Water	Seasonal	Estimated		Water	Seasonal	Estimated	Water	Seasonal	Estimated
	Use	Water Use	ETc		Use	Water Use	ETc	Use	Water Use	ETc
Almonds (3/1) *	1.84	16.09	1.95		2.01	16.92	1.96	1.96	16.47	1.96
Pistachio (4/20) * **	2.03	7.90	2.09		2.20	8.46	2.10	2.15	8.26	2.10
Citrus (2/1)	1.19	14.57	1.25		1.32	15.40	1.26	1.28	14.97	1.26
Raisin Grapes (3/11) (11 ft. row spacing)	1.29	7.06	1.36		1.39	7.59	1.36	1.35	7.42	1.36
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.35	7.35	1.48		1.49	7.85	1.49	1.45	7.67	1.49
Walnuts (4/20)	1.49	7.08	1.60		1.62	7.59	1.61	1.57	7.49	1.61
Stone Fruit (3/11)	1.46	9.72	1.60		1.62	10.38	1.61	1.58	10.17	1.61
Past 7 days precipitation (inches)		0.00				0.00			0.00	
Accumulated precipitation (inches) (1/1/2024)		14.98				8.98			9.71	

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

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

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

#148 Merced					#39 Parlier			#258 Lemon Cove			
661	590	519	449	732	638	567	496	708	614	543	496
772	673	598	523	847	722	648	573	822	722	623	573
444	395	346	321	494	444	395	346	494	420	370	321
Assume all grape			67	Assume all grape 72			72	Assume all grape			67
irrigation type is drip			61	irrigation type is drip 70			70	irrig	gation type is	drip	65
822	715	643	572	893	786	679	607	857	750	643	607
347	300	268	237	395	347	300	268	379	332	300	268
	772 444 As irrig 822 347	661 590 772 673 444 395 Assume all gra irrigation type is 822 715 347 300	661 590 519 772 673 598 444 395 346 Assume all grape irrigation type is drip 822 715 643 347 300 268	661 590 519 449 772 673 598 523 444 395 346 321 Assume all grape 67 irrigation type is drip 61 822 715 643 572 347 300 268 237	661 590 519 449 732 772 673 598 523 847 444 395 346 321 494 Assume all grape 67 Assume all grape 61 irrig 822 715 643 572 893 347 300 268 237 395	661 590 519 449 732 638 772 673 598 523 847 722 444 395 346 321 494 444 Assume all grape 67 Assume all grape irrigation type is 822 715 643 572 893 786 347 300 268 237 395 347	661 590 519 449 732 638 567 772 673 598 523 847 722 648 444 395 346 321 494 444 395 Assume all grape 67 Assume all grape irrigation type is drip 61 irrigation type is drip 822 715 643 572 893 786 679	661 590 519 449 732 638 567 496 772 673 598 523 847 722 648 573 444 395 346 321 494 444 395 346 Assume all grape 67 Assume all grape 72 irrigation type is drip 61 irrigation type is drip 70 822 715 643 572 893 786 679 607	661 590 519 449 732 638 567 496 708 772 673 598 523 847 722 648 573 822 444 395 346 321 494 444 395 346 494 Assume all grape 67 Assume all grape 72 Assume all grape 70 irrigation type is drip 70 irrigation type is drip 70 607 857	661 590 519 449 732 638 567 496 708 614 772 673 598 523 847 722 648 573 822 722 444 395 346 321 494 444 395 346 494 420 Assume all grape 67 Assume all grape 72 Assume all grape irrigation type is drip 61 irrigation type is drip 70 irrigation type is 822 715 643 572 893 786 679 607 857 750	661 590 519 449 732 638 567 496 708 614 543 772 673 598 523 847 722 648 573 822 722 623 444 395 346 494 444 395 346 494 420 370 Assume all grape 72 Assume all grape irrigation type is drip 61 irrigation type is drip 70 irrigation type is drip 822 715 643 572 893 786 679 607 857 750 643 347 300 268 237 395 347 300 268 379 332 300

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.

^{**} 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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UCCE/DWR Weekly Crop Water Use Report

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C) 06/07/24 through 06/13/24

Crops (Leafout Date)	#124 Panoche			#	2 Five Poin	ts	#15 Stratford				
	06/07- 06/13	Accum'd	06/14- 06/20	06/07- 06/13	Accum'd	06/14- 06/20	06/07- 06/13	Accum'd	06/14- 06/20		
	Water	Seasonal	Estimated	Water	Seasonal	Estimated	Water	Seasonal	Estimated		
	Use	Water Use	ETc	Use	Water Use	ETc	Use	Water Use	ETc		
Almonds (3/1) *	1.97	17.09	2.17	2.02	17.62	2.17	1.88	15.86	2.17		
Pistachio (4/20) * **	2.18	8.86	2.31	2.23	9.18	2.31	2.09	7.96	2.31		
Citrus (2/1)	1.30	15.86	1.40	1.33	16.49	1.40	1.24	15.06	1.40		
Raisin Grapes (3/11) (11 ft. row spacing)	1.38	7.81	1.52	1.41	8.11	1.52	1.32	7.10	1.52		
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.46	8.03	1.62	1.49	8.29	1.62	1.39	7.30	1.62		
Walnuts (4/20)	1.60	7.90	1.82	1.63	8.22	1.82	1.52	7.18	1.82		
Stone Fruit (3/11)	1.60	10.86	1.82	1.65	11.11	1.82	1.52	9.86	1.82		
Past 7 days precipitation (inches)		0.00			0.00			0.00			
Accumulated precipitation (inches) (1/1/2024)		6.60			6.86			5.43			

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			#2 Five Poi	nts								
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	3.0	2.6	2.3	2.1	3.1	2.7	2.4	2.1	2.9	2.5	2.2	2.0
Pistachio (4/20)	3.4	2.9	2.6	2.3	3.4	3.0	2.6	2.3	3.2	2.8	2.5	2.2
Citrus (2/1)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	1.9	1.7	1.5	1.3
Raisin Grapes (3/11) (11 ft. row spacing)	As	ssume all gra	pe	1.4	Assume all grape 1.5			1.5	Assume all grape			1.4
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip		1.5	irrigation type is drip		1.5		
Walnuts (4/20)	2.5	2.1	1.9	1.7	2.5	2.2	1.9	1.7	2.3	2.0	1.8	1.6
Stone Fruit (3/11)	2.5	2.1	1.9	1.7	2.5	2.2	1.9	1.7	2.3	2.0	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%.

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Crops		#124 Panoc	he		#2 Five Poi	nts		#15 Stratford				
Almonds 115 Trees/A	708	614	543	496	732	638	567	496	685	590	519	472
Pistachio 106 Trees/A	847	722	648	573	847	747	648	573	797	698	623	548
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	469	420	370	321
Raisin Grapes 566 Vines/A	Assume all grape			67	Assume all grape 72			72	Assume all grape			67
Winegrapes 622 Vines/A	irrig	irrigation type is drip			irrigation type is drip		65	irrigation type is drip		drip	65	
Walnuts 76 Trees/A	893	750	679	607	893	786	679	607	822	715	643	572
Stonefruit 172 Trees/A	395	332	300	268	395	347	300	268	363	316	284	253

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