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) 07/05/24 through 07/11/24

Crops (Leafout Date)	#148 Merced				#39 Parlier			#258 Lemon Cove			
	07/05 - 07/11	Accum'd	07/12 - 07/18		07/05 - 07/11	Accum'd	07/12 - 07/18	07/05 - 07/11	Accum'd	07/12 - 07/18	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated	Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc	Use	Water Use	ETc	<u> </u>
Almonds (3/1) *	2.10	24.25	2.06		2.23	25.61	1.97	2.21	24.92	2.02	
Pistachio (4/20) * **	2.17	16.46	2.13		2.30	17.52	2.04	2.28	17.09	2.09	
Citrus (2/1)	1.26	19.60	1.26		1.37	20.80	1.20	1.36	20.21	1.25	
Raisin Grapes (3/11) (11 ft. row spacing)	1.43	12.67	1.39		1.48	13.45	1.32	1.46	13.12	1.36	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.61	13.53	1.57		1.70	14.39	1.50	1.69	14.05	1.54	
Walnuts (4/20)	1.94	14.16	1.96		2.07	15.19	1.87	2.05	14.84	1.92	
Stone Fruit (3/11)	1.85	16.67	1.99		1.98	17.86	1.90	1.96	17.39	1.95	
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 Merced					#39 Parlier	•		#258 Lemon Cove				
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/1)	3.2	2.8	2.5	2.2	3.4	3.0	2.6	2.3	3.4	2.9	2.6	2.3	
Pistachio (4/20)	3.3	2.9	2.6	2.3	3.5	3.1	2.7	2.4	3.5	3.0	2.7	2.4	
Citrus (2/1)	1.9	1.7	1.5	1.3	2.1	1.8	1.6	1.4	2.1	1.8	1.6	1.4	
Raisin Grapes (3/11) (11 ft. row spacing)	As	sume all gra	pe	1.5	As	ssume all gra	ape	1.6	As	ssume all gra	pe	1.5	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrig	ation type is	drip	1.7	irrigation type is drip		1.8	irrigation type is drip		drip	1.8		
Walnuts (4/20)	3.0	2.6	2.3	2.0	3.2	2.8	2.4	2.2	3.2	2.7	2.4	2.2	
Stone Fruit (3/11)	2.8	2.5	2.2	1.9	3.0	2.6	2.3	2.1	3.0	2.6	2.3	2.1	

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	756	661	590	519	803	708	614	543	803	685	614	543		
Pistachio 106 Trees/A	822	722	648	573	872	772	673	598	872	747	673	598		
Citrus 110 Trees/A	469	420	370	321	518	444	395	346	518	444	395	346		
Raisin Grapes 566 Vines/A	Assume all grape			72	Assume all grape 77			77	Assume all grape			72		
Winegrapes 622 Vines/A	irrig	ation type is	drip	74	irrigation type is drip			79	irrigation type is drip			79		
Walnuts 76 Trees/A	1072	929	822	715	1143	1000	857	786	1143	965	857	786		
Stonefruit 172 Trees/A	442	395	347	300	474	410	363	332	474	410	363	332		

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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WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C) 07/05/24 through 07/11/24

Crops (Leafout Date)	#	#124 Panoche			#2 Five Points			#15 Stratford			
	07/05- 07/11	Accum'd	07/12- 07/18		07/05- 07/11	Accum'd	07/12- 07/18	07/05- 07/11	Accum'd	07/12- 07/18	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated	Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc	Use	Water Use	ETc	
Almonds (3/1) *	2.27	26.15	2.10		2.39	26.97	2.17	2.27	24.25	2.18	
Pistachio (4/20) * **	2.33	18.29	2.17		2.42	18.90	2.24	2.33	16.76	2.25	
Citrus (2/1)	1.38	21.46	1.26		1.43	22.25	1.33	1.38	20.24	1.34	
Raisin Grapes (3/11) (11 ft. row spacing)	1.51	13.93	1.43		1.58	14.43	1.43	1.51	12.81	1.44	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.71	14.83	1.61		1.78	15.30	1.67	1.71	13.60	1.67	
Walnuts (4/20)	2.10	15.83	2.00		2.19	16.40	2.07	2.10	14.56	2.08	
Stone Fruit (3/11)	2.01	18.66	2.03		2.10	19.17	2.10	2.01	17.11	2.12	
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	#124 Panoche					#2 Five Poi	nts						
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/1)	3.5	3.0	2.7	2.4	3.7	3.2	2.8	2.5	3.5	3.0	2.7	2.4	
Pistachio (4/20)	3.6	3.1	2.7	2.5	3.7	3.2	2.8	2.5	3.6	3.1	2.7	2.5	
Citrus (2/1)	2.1	1.8	1.6	1.5	2.2	1.9	1.7	1.5	2.1	1.8	1.6	1.5	
Raisin Grapes (3/11) (11 ft. row spacing)	As	ssume all gra	ipe	1.6	Assume all grape			1.7	Assume all grape			1.6	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrig	gation type is	drip	1.8	irrigation type is drip		drip	1.9	irrigation type is drip		drip	1.8	
Walnuts (4/20)	3.2	2.8	2.5	2.2	3.4	2.9	2.6	2.3	3.2	2.8	2.5	2.2	
Stone Fruit (3/11)	3.1	2.7	2.4	2.1	3.2	2.8	2.5	2.2	3.1	2.7	2.4	2.1	

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								
Almonds 115 Trees/A	826	708	638	567	874	756	661	590	826	708	638	567	
Pistachio 106 Trees/A	897	772	673	623	922	797	698	623	897	772	673	623	
Citrus 110 Trees/A	518	444	395	370	543	469	420	370	518	444	395	370	
Raisin Grapes 566 Vines/A	As	ssume all gra	pe	77	Assume all grape 82			82	Assume all grape			77	
Winegrapes 622 Vines/A	irrig	ation type is	drip	79	irrigation type is drip			83	irrigation type is drip			79	
Walnuts 76 Trees/A	1143	1000	893	786	1215	1036	929	822	1143	1000	893	786	
Stonefruit 172 Trees/A	489	426	379	332	505	442	395	347	489	426	379	332	
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.