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) 10/28/22 through 11/03/22

Crops (Leafout Date)	#148 Merced			i	#39 Parlier	•	#258 Lemon Cove			
	10/28 - 11/3	Accum'd	11/4 - 11/10	10/28 - 11/3	Accum'd	11/4 - 11/10	10/28 - 11/3	Accum'd	11/4 - 11/10	
	Water	Seasonal	Estimated	Water	Seasonal	Estimated	Water	Seasonal	Estimated	
	Use	Water Use	ETc	Use	Water Use	ETc	Use	Water Use	ETc	
Almonds (3/1) *	0.44	48.78	0.36	0.48	50.47	0.34	0.54	47.26	0.41	
Pistachio (4/8) * **	0.39	43.06	0.32	0.43	44.82	0.31	0.48	41.66	0.36	
Citrus (2/1)	0.39	36.80	0.36	0.43	38.14	0.34	0.48	35.91	0.40	
Raisin Grapes (3/15) (11 ft. row spacing)	0.38	29.46	0.37	0.42	30.67	0.35	0.47	28.57	0.41	
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.47	32.63	0.43	0.50	33.92	0.41	0.55	31.59	0.47	
Walnuts (4/8)	0.16	41.99	0.14	0.16	43.59	0.14	0.17	40.43	0.15	
Stone Fruit (3/10)	0.44	42.34	0.24	 0.46	44.00	0.24	 0.51	40.86	0.25	
Past 7 days precipitation (inches)		0.36			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)		3.62			2.05			2.82		

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 stre 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 Merce	ed			#39 Parlier	,					
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.8	0.7	0.6	0.6
Pistachio (4/8)	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5
Citrus (2/1)	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5
Raisin Grapes (3/15) (11 ft. row spacing)***	As	sume all gr	ape	0.4	Assume all grape			0.4	Assume all grape			0.5
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irriga	ation type is	s drip	0.5	irrigation type is drip			0.5	irrigation type is drip			0.6
Walnuts (4/8)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
Stone Fruit (3/10)	0.7	0.6	0.5	0.5	0.7	0.6	0.5	0.5	0.8	0.7	0.6	0.5

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		#148 Merc	ed			#39 Parlier	•		#258 Lemon Cove			
Almonds 115 Trees/A	165	165 142 118		118	165	142	142	118	189	165	142	142
Pistachio 106 Trees/A	149	125	125	100	174	149	125	125	174	149	149	125
Citrus 110 Trees/A	148	123	123	99	173	148	123	123	173	148	148	123
Raisin Grapes 566 Vines/A	As	sume all gr	ape	19	Assume all grape 19			19	As	24		
Winegrapes 622 Vines/A	irrig	ation type is	s drip	22	irrigation type is drip			22	irrigation type is drip		26	
Walnuts 76 Trees/A	71	71	71	71	71	71	71	71	107	71	71	71
Stonefruit 172 Trees/A	111	95	79	79	111	95	79	79	126	111	95	79
For further information concerning all counties receiving this report, contact	or further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.											

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WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

10/28/22 through 11/03/22

Crops (Leafout Date)	#	124 Panoch	ne	#2 Five Points				#15 Stratford				
	10/28-11/3	Accum'd	11/4-11/10	10/28-11/3	Accum'd	11/4-11/10		10/28-11/3	Accum'd	11/4-11/10		
	Water	Seasonal	Estimated	10/30-11/5	Seasonal	Estimated		Water	Seasonal	Estimated		
	Use	Water Use	ETc	Use	Water Use	ETc		Use	Water Use	ETc		
Almonds (3/1) *	0.51	54.26	0.39	0.54	56.33	0.46		0.56	57.95	0.45		
Pistachio (4/8) * **	0.45	47.72	0.35	0.48	49.36	0.38		0.49	50.94	0.38		
Citrus (2/1)	0.44	40.99	0.39	0.47	42.61	0.42		0.47	43.50	0.42		
Raisin Grapes (3/15) (11 ft. row spacing)	0.43	32.67	0.39	0.48	33.87	0.45		0.50	34.94	0.44		
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.53	36.02	0.45	0.56	37.33	0.51		0.58	38.54	0.50		
Walnuts (4/8)	0.17	46.32	0.14	0.19	48.06	0.18		0.20	49.58	0.17		
Stone Fruit (3/10)	0.51	46.90	0.42	0.54	48.58	0.46		0.55	50.13	0.45		
Past 7 days precipitation (inches)		0.23			0.02				0.01			
Accumulated precipitation (inches) (1/1/2022)		1.48			1.78				1.34			

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 Pot	ints					
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.6	0.9	0.7	0.7	0.6
Pistachio (4/8)	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.8	0.7	0.6	0.5
Citrus (2/1)	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.7	0.6	0.6	0.5
Raisin Grapes (3/15) (11 ft. row spacing)	As	sume all gr	ape	0.5	Assume all grape 0.5			0.5	As	0.5		
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrig	ation type is	s drip	0.6	irrigation type is drip 0.			0.6	irrig	s drip	0.6	
Walnuts (4/8)	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2
Stone Fruit (3/10)	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.6
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 W	EEKLY A	PPLIED W	ATER IN G	GALLON P	ER TREE (OR VINE					

PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE												
Crops		#124 Pano	che			#2 Five Poi	nts					
Almonds 115 Trees/A	189	189 165 142		118	189	165	142	142	213	165	165	142
Pistachio 106 Trees/A	174	149	125	125	174	149	149	125	199	174	149	125
Citrus 110 Trees/A	173	148	123	123	173	148	148	123	173	148	148	123
Raisin Grapes 566 Vines/A	As	sume all gr	ape	24	Assume all grape 24				As	24		
Winegrapes 622 Vines/A	irriga	ation type is	s drip	26	irrigation type is drip			26	irrigation type is drip			26
Walnuts 76 Trees/A	107	71	71	71	107	107	71	71	107	107	71	71
Stonefruit 172 Trees/A	126	111	95	79	126	111	95	95	126	111	95	95
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