# 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<sub>C</sub>)

### 10/09/20 through 10/15/20

Crops (Leafout Date)	#148 Merced			#39 Parlier				#258 Lemon Cove		
	10/9 - 10/15	Accum'd	10/16 - 10/22	10/9 - 10/15	Accum'd	10/16 - 10/22		10/9 - 10/15	Accum'd	10/16 - 10/22
	Water	Seasonal	Estimated	Water	Seasonal	Estimated		Water	Seasonal	Estimated
	Use	Water Use	ETc	Use	Water Use	ETc		Use	Water Use	ETc
Almonds (3/5) *	0.82	44.43	0.68	0.82	45.37	0.66		0.74	42.54	0.65
Pistachio (4/13) * **	0.80	37.41	0.68	0.80	38.43	0.66		0.74	36.31	0.65
Citrus (2/1)	0.62	34.18	0.54	0.62	34.39	0.52		0.57	32.38	0.51
Raisin Grapes (3/16) (11 ft. row spacing)	0.75	30.88	0.61	0.76	31.60	0.59		0.67	29.94	0.58
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.85	34.08	0.75	0.85	34.94	0.73		0.79	32.99	0.72
Walnuts (4/8)	0.78	37.50	0.64	0.78	38.52	0.62		0.72	36.35	0.61
Stone Fruit (3/10)	0.78	38.28	0.61	0.79	39.25	0.59		0.70	36.88	0.58
Past 7 days precipitation (inches)		0.00			0.00				0.00	
Accumulated precipitation (inches) (1/1/2020)		5.05			4.80				5.61	

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 <sup>1</sup>														
Crops		#148 Merce	ed			#39 Parlier	•		#258 Lemon Cove					
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%		
Almonds (3/5)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.1	1.0	0.9	0.8		
Pistachio (4/13)	1.2	1.1	0.9	0.8	1.2	1.1	0.9	0.8	1.1	1.0	0.9	0.8		
Citrus (2/1)	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.6		
Raisin Grapes (3/16) (11 ft. row spacing)***	1.2	1.0	0.9	0.8	1.2	1.0	0.9	0.8	1.0	0.9	0.8	0.7		
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8		
Walnuts (4/8)	1.2	1.0	0.9	0.8	1.2	1.0	0.9	0.8	1.1	1.0	0.8	0.8		
Stone Fruit (3/10)	1.2	1.0	0.9	0.8	1.2	1.1	0.9	0.8	1.1	0.9	0.8	0.7		

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 W	EEKLY A	PPLIED W	ATER IN G	GALLON PI	ER TREE (	OR VINE						
Crops		#148 Merce	ed			#39 Parlier	•		#258 Lemon Cove				
Almonds 115 Trees/A	307	260	236	213	307	260	236	213	260	236	213	189	
Pistachio 106 Trees/A	299	274	224	199	299	274	224	199	274	249	224	199	
Citrus 110 Trees/A	247	197	173	173	247	197	173	173	222	197	173	148	
Raisin Grapes 566 Vines/A	58	48	43	38	58	48	43	38	48	43	38	34	
Winegrapes 622 Vines/A	57	48	44	39	57	48	44	39	52	48	39	35	
Walnuts 76 Trees/A	429	357	322	286	429	357	322	286	393	357	286	286	
Stonefruit 172 Trees/A	189	158	142	126	189	174	142	126	174	142	126	111	
For further information concerning all counties receiving this report, contact	t the Fresno	Co. Farm Ad	lvisor's office	e at (559) 24	41-7526.				-				

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## WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET<sub>C</sub>)

#### 10/00/00 /1 1 10/1 5/00

Crops (Leafout Date)	#	124 Panocl	ne	 #2 Five Points			#15 Stratford				
	10/9 - 10/15	Accum'd	10/16- 10/22	10/9 - 10/15	Accum'd	10/16- 10/22	10/9 - 10/1	5 Accum'd	10/16- 10/22		
	Water	Seasonal	Estimated	Water	Seasonal	Estimated	Water	Seasonal	Estimated		
	Use	Water Use	ETc	Use	Water Use	ETc	Use	Water Use	ETc		
Almonds $(3/5) *$	0.95	48.42	0.75	1.05	49.93	0.79	1.01	50.52	0.77		
Pistachio (4/13) * **	0.91	41.16	0.72	1.01	42.10	0.78	0.97	42.56	0.74		
Citrus (2/1)	0.72	36.74	0.57	0.79	38.20	0.64	0.76	38.43	0.60		
Raisin Grapes (3/16) (11 ft. row spacing)	0.85	33.32	0.69	0.94	34.15	0.78	0.90	34.58	0.74		
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.96	36.95	0.82	1.06	37.86	0.86	1.02	38.20	0.84		
Walnuts (4/8)	0.89	41.17	0.71	0.99	42.35	0.74	0.95	42.76	0.72		
Stone Fruit (3/10)	0.86	42.09	0.69	0.97	43.25	0.78	0.93	43.71	0.74		
Past 7 days precipitation (inches)		0.00			0.00			0.00			
Accumulated precipitation (inches) (1/1/2020)		2.68			4.05			3.13			

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.

I	PAST WEEK	LY APPLI	ED WATEF	R IN INCHI	ES, ADJUST	<b>FED FOR H</b>	EFFICIENC	$CY^{1}$					
Crops		#124 Panoche					ints						
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/5)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.6	1.3	1.2	1.1	
Pistachio (4/13)	1.4	1.2	1.1	1.0	1.6	1.3	1.2	1.1	1.5	1.3	1.1	1.0	
Citrus (2/1)	1.1	1.0	0.8	0.8	1.2	1.1	0.9	0.8	1.2	1.0	0.9	0.8	
Raisin Grapes (3/16) (11 ft. row spacing)	1.3	1.1	1.0	0.9	1.4	1.3	1.1	1.0	1.4	1.2	1.1	0.9	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.5	1.3	1.1	1.0	1.6	1.4	1.2	1.1	1.6	1.4	1.2	1.1	
Walnuts (4/8)	1.4	1.2	1.0	0.9	1.5	1.3	1.2	1.0	1.5	1.3	1.1	1.0	
Stone Fruit (3/10)	1.3	1.1	1.0	0.9	1.5	1.3	1.1	1.0	1.4	1.2	1.1	1.0	
1 The amount of water required by a specific irrigation system to satisfy evapotrar	spiration. Typi	cal ranges in i	rrigation syste	em efficiency	are: Drip, 80%	%-95%; Micro	o-sprinkler, 80	0%-90%; Spri	nkler, 70%-8	5%; and Bord	er-furrow, 50	%-75%.	
	PAST V	VEEKLY A	PPLIED W	ATER IN (	GALLON P	ER TREE (	OR VINE						
Crops		#124 Panoche				#2 Five Points				#15 Stratford			
Almonds 115 Trees/A	354	307	260	236	378	331	283	260	378	307	283	260	
Pistachio 106 Trees/A	349	299	274	249	399	324	299	274	374	324	274	249	
Citrus 110 Trees/A	272	247	197	197	296	272	2.2.2	197	296	247	222	197	

PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE													
Crops		#124 Panoo	che			#2 Five Poi	ints						
Almonds 115 Trees/A	354	307	260	236	378	331	283	260	378	307	283	260	
Pistachio 106 Trees/A	349	299	274	249	399	324	299	274	374	324	274	249	
Citrus 110 Trees/A	272	247	197	197	296	272	222	197	296	247	222	197	
Raisin Grapes 566 Vines/A	62	53	48	43	67	62	53	48	67	58	53	43	
Winegrapes 622 Vines/A	65	57	48	44	70	61	52	48	70	61	52	48	
Walnuts 76 Trees/A	500	429	357	322	536	464	429	357	536	464	393	357	
Stonefruit 172 Trees/A	205	174	158	142	237	205	174	158	221	189	174	158	
For further information concerning all counties receiving this report, contact	t the Fresno	Co. Farm Ad	lvisor's offic	e at (559) 24	41-7526.				-				