

WEEKLY SOIL MOISTURE LOSS IN INCHES														
(Estimated Crop Evapotranspiration or ET_c)														
10/23/20 through 10/29/20														
Crops (Leafout Date)	#148 Merced					#39 Parlier					#258 Lemon Cove			
	10/23 - 10/29	Accum'd	10/30 - 11/5		10/23 - 10/29	Accum'd	10/30 - 11/5		10/23 - 10/29	Accum'd	10/30 - 11/5			
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated			
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc			
Almonds (3/5) *	0.59	45.77	0.47		0.61	46.74	0.45		0.64	43.96	0.45			
Pistachio (4/13) * **	0.57	38.70	0.48		0.58	39.75	0.45		0.62	37.70	0.45			
Citrus (2/1)	0.46	35.22	0.41		0.49	35.48	0.39		0.51	33.52	0.39			
Raisin Grapes (3/16) (11 ft. row spacing)	0.57	32.16	0.49		0.58	32.91	0.46		0.60	31.30	0.46			
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	0.67	35.57	0.56		0.69	36.46	0.53		0.72	34.56	0.53			
Walnuts (4/8)	0.36	38.56	0.29		0.36	39.59	0.28		0.37	37.46	0.28			
Stone Fruit (3/10)	0.53	39.52	0.43		0.55	40.53	0.42		0.58	38.22	0.42			
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 ¹														
Crops	#148 Merced					#39 Parlier					#258 Lemon Cove			
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6		1.0	0.9	0.8	0.7
Pistachio (4/13)	0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6		1.0	0.8	0.7	0.7
Citrus (2/1)	0.7	0.6	0.5	0.5		0.8	0.7	0.6	0.5		0.8	0.7	0.6	0.5
Raisin Grapes (3/16) (11 ft. row spacing)***	0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis) ***	1.0	0.9	0.8	0.7		1.1	0.9	0.8	0.7		1.1	1.0	0.8	0.8
Walnuts (4/8)	0.6	0.5	0.4	0.4		0.6	0.5	0.4	0.4		0.6	0.5	0.4	0.4
Stone Fruit (3/10)	0.8	0.7	0.6	0.6		0.8	0.7	0.6	0.6		0.9	0.8	0.7	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 WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE														
Crops	#148 Merced					#39 Parlier					#258 Lemon Cove			
Almonds 115 Trees/A	213	189	165	142		213	189	165	142		236	213	189	165
Pistachio 106 Trees/A	224	199	174	149		224	199	174	149		249	199	174	174
Citrus 110 Trees/A	173	148	123	123		197	173	148	123		197	173	148	123
Raisin Grapes 566 Vines/A	43	38	34	29		43	38	34	29		43	38	34	29
Winegrapes 622 Vines/A	44	39	35	31		48	39	35	31		48	44	35	35
Walnuts 76 Trees/A	214	179	143	143		214	179	143	143		214	179	143	143
Stonefruit 172 Trees/A	126	111	95	95		126	111	95	95		142	126	111	95

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.

WEEKLY SOIL MOISTURE LOSS IN INCHES
 (Estimated Crop Evapotranspiration or ET_C)
 10/23/20 through 10/29/20

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	10/23- 10/29 Water Use	Accum'd Seasonal Water Use	10/30- 11/5 Estimated ETc		10/23- 10/29 Water Use	Accum'd Seasonal Water Use	10/30- 11/5 Estimated ETc		10/23- 10/29 Water Use	Accum'd Seasonal Water Use	10/30- 11/5 Estimated ETc
Almonds (3/5) *	0.70	49.98	0.48		0.76	51.61	0.52		0.72	52.13	0.52
Pistachio (4/13) * **	0.68	42.70	0.51		0.73	43.75	0.58		0.70	44.15	0.58
Citrus (2/1)	0.57	38.03	0.42		0.61	39.58	0.45		0.58	39.75	0.45
Raisin Grapes (3/16) (11 ft. row spacing)	0.66	34.84	0.52		0.71	35.77	0.56		0.70	36.16	0.56
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	0.78	38.66	0.59		0.84	39.69	0.66		0.80	39.96	0.66
Walnuts (4/8)	0.41	42.39	0.31		0.45	43.65	0.35		0.44	44.03	0.35
Stone Fruit (3/10)	0.65	43.57	0.45		0.70	44.82	0.52		0.67	45.23	0.52
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.

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%		65%	75%	85%	95%		65%	75%	85%	95%
Almonds (3/5)	1.1	0.9	0.8	0.7		1.2	1.0	0.9	0.8		1.1	1.0	0.8	0.8
Pistachio (4/13)	1.0	0.9	0.8	0.7		1.1	1.0	0.9	0.8		1.1	0.9	0.8	0.7
Citrus (2/1)	0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6
Raisin Grapes (3/16) (11 ft. row spacing)	1.0	0.9	0.8	0.7		1.1	0.9	0.8	0.7		1.1	0.9	0.8	0.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.2	1.0	0.9	0.8		1.3	1.1	1.0	0.9		1.2	1.1	0.9	0.8
Walnuts (4/8)	0.6	0.5	0.5	0.4		0.7	0.6	0.5	0.5		0.7	0.6	0.5	0.5
Stone Fruit (3/10)	1.0	0.9	0.8	0.7		1.1	0.9	0.8	0.7		1.0	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 WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
	260	213	189	165		283	236	213	189		260	236	189	189
Almonds 115 Trees/A	260	213	189	165		283	236	213	189		260	236	189	189
Pistachio 106 Trees/A	249	224	199	174		274	249	224	199		274	224	199	174
Citrus 110 Trees/A	222	197	173	148		222	197	173	148		222	197	173	148
Raisin Grapes 566 Vines/A	48	43	38	34		53	43	38	34		53	43	38	34
Winegrapes 622 Vines/A	52	44	39	35		57	48	44	39		52	48	39	35
Walnuts 76 Trees/A	214	179	179	143		250	214	179	179		250	214	179	179
Stonefruit 172 Trees/A	158	142	126	111		174	142	126	111		158	142	126	111

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.