



WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_c)
11/01/24 through 11/07/24

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	11/01 - 11/07 Water Use	Accum'd Seasonal Water Use	11/08 - 11/14 Estimated ET _c	11/01 - 11/07 Water Use	Accum'd Seasonal Water Use	11/08 - 11/14 Estimated ET _c	11/01 - 11/07 Water Use	Accum'd Seasonal Water Use	11/08 - 11/14 Estimated ET _c
Almonds (3/1) *	0.39	47.46	0.31	0.44	49.72	0.30	0.42	48.60	0.34
Pistachio (4/20) * **	0.44	39.79	0.31	0.41	41.70	0.30	0.44	40.90	0.34
Citrus (2/1)	0.39	34.97	0.31	0.41	36.76	0.30	0.43	35.99	0.34
Raisin Grapes (3/11) (11 ft. row spacing)	0.39	28.82	0.32	0.43	30.23	0.31	0.43	29.72	0.35
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.45	31.93	0.38	0.50	33.62	0.37	0.53	32.97	0.41
Walnuts (4/20)	0.18	37.38	0.14	0.22	39.26	0.14	0.31	38.58	0.14
Stone Fruit (3/11)	0.42	40.52	0.38	0.46	42.75	0.37	0.50	41.98	0.40
Past 7 days precipitation (inches)	0.00			0.02			0.06		
Accumulated precipitation (inches) (1/1/2024)	14.98			9.07			9.79		

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			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>												
Almonds (3/1)	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.4
Pistachio (4/20)	0.7	0.6	0.5	0.5	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.5
Citrus (2/1)	0.6	0.5	0.5	0.4	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.5
Raisin Grapes (3/11) (11 ft. row spacing)***	Assume all grape			0.4	Assume all grape			0.5	Assume all grape			0.5
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			0.5	irrigation type is drip			0.5	irrigation type is drip			0.6
Walnuts (4/20)	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.5	0.4	0.4	0.3
Stone Fruit (3/11)	0.6	0.6	0.5	0.4	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 Merced				#39 Parlier				#258 Lemon Cove			
	Almonds 115 Trees/A	142	118	118	94	165	142	118	118	142	142	118
Pistachio 106 Trees/A	174	149	125	125	149	125	125	100	174	149	125	125
Citrus 110 Trees/A	148	123	123	99	148	123	123	99	173	148	123	123
Raisin Grapes 566 Vines/A	Assume all grape			19	Assume all grape			24	Assume all grape			24
Winegrapes 622 Vines/A	irrigation type is drip			22	irrigation type is drip			22	irrigation type is drip			26
Walnuts 76 Trees/A	107	71	71	71	107	107	107	71	179	143	143	107
Stonefruit 172 Trees/A	95	95	79	63	111	95	79	79	126	111	95	79

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)
11/01/24 through 11/07/24

Crops (Leafout Date)	#124 Panoche				#2 Five Points				#15 Stratford		
	11/01- 11/07 Water Use	Accum'd Seasonal Water Use	11/08- 11/14 Estimated ETc		11/01- 11/07 Water Use	Accum'd Seasonal Water Use	11/08- 11/14 Estimated ETc		11/01- 11/07 Water Use	Accum'd Seasonal Water Use	11/08- 11/14 Estimated ETc
Almonds (3/1) *	0.62	52.31	0.33		0.63	52.92	0.40		0.57	50.98	0.39
Pistachio (4/20) * **	0.58	44.50	0.33		0.58	44.84	0.40		0.50	43.51	0.39
Citrus (2/1)	0.56	38.89	0.33		0.56	39.48	0.40		0.50	37.97	0.39
Raisin Grapes (3/11) (11 ft. row spacing)	0.56	32.22	0.34		0.56	32.51	0.40		0.49	31.46	0.39
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.67	35.78	0.40		0.67	35.97	0.46		0.60	34.87	0.45
Walnuts (4/20)	0.27	41.71	0.14		0.26	41.93	0.14		0.25	41.02	0.14
Stone Fruit (3/11)	0.65	45.72	0.40		0.65	45.97	0.42		0.57	44.73	0.42
Past 7 days precipitation (inches)	0.00				0.01				0.01		
Accumulated precipitation (inches) (1/1/2024)	6.60				6.95				5.46		

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 >>														
Almonds (3/1)	1.0	0.8	0.7	0.7		1.0	0.8	0.7	0.7		0.9	0.8	0.7	0.6
Pistachio (4/20)	0.9	0.8	0.7	0.6		0.9	0.8	0.7	0.6		0.8	0.7	0.6	0.5
Citrus (2/1)	0.9	0.7	0.7	0.6		0.9	0.7	0.7	0.6		0.8	0.7	0.6	0.5
Raisin Grapes (3/11) (11 ft. row spacing)	Assume all grape			0.6		Assume all grape			0.6		Assume all grape			0.5
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			0.7		irrigation type is drip			0.7		irrigation type is drip			0.6
Walnuts (4/20)	0.4	0.4	0.3	0.3		0.4	0.3	0.3	0.3		0.4	0.3	0.3	0.3
Stone Fruit (3/11)	1.0	0.9	0.8	0.7		1.0	0.9	0.8	0.7		0.9	0.8	0.7	0.6

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche					#2 Five Points					#15 Stratford			
Almonds 115 Trees/A	236	189	165	165		236	189	165	165		213	189	165	142
Pistachio 106 Trees/A	224	199	174	149		224	199	174	149		199	174	149	125
Citrus 110 Trees/A	222	173	173	148		222	173	173	148		197	173	148	123
Raisin Grapes 566 Vines/A	Assume all grape			29		Assume all grape			29		Assume all grape			24
Winegrapes 622 Vines/A	irrigation type is drip			31		irrigation type is drip			31		irrigation type is drip			26
Walnuts 76 Trees/A	143	143	107	107		143	107	107	107		143	107	107	107
Stonefruit 172 Trees/A	158	142	126	111		158	142	126	111		142	126	111	95

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