HEALTHY FOOD SYSTEMS . HEALTHY ENVIRONMENTS . HEALTHY COMMUNITIES . HEALTHY CALIFORNIANS

University of California

Agriculture and Natural Resources

Making a Difference for California

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_C)

05/17/24 through 05/23/24

	00/1//	- · • • • • • • • • • • •								
#	[‡] 148 Merce	d		#39 Parlier				#258 Lemon Cove		
05/17 - 05/23	Accum'd	05/24 - 05/30		05/17 - 05/23	Accum'd	05/24 - 05/30		05/17 - 05/23	Accum'd	05/24 - 05/30
Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated
Use	Water Use	ETc		Use		ETc		Use	Water Use	ETc
1.54	10.86	1.63		1.70	11.31	1.65		1.69	11.00	1.61
1.02	2.71	1.39		1.13	2.89	1.41		1.11	2.83	1.37
1.12	11.06	1.13		1.23	11.60	1.15		1.22	11.27	1.12
0.96	3.49	1.07		1.06	3.71	1.09		1.05	3.66	1.05
0.89	3.73	1.01		1.00	3.92	1.03		0.99	3.86	0.99
1.12	3.03	1.15		1.21	3.21	1.17		1.19	3.22	1.15
1.05	5.59	1.27		1.20	5.92	1.29		1.19	5.82	1.25
	0.00				0.00				0.00	
	14.98				8.98				9.71	
	05/17 - 05/23 Water Use 1.54 1.02 1.12 0.96 0.89 1.12	#148 Merce 05/17 - 05/23 Accum'd Water Seasonal Use Water Use 1.54 10.86 1.02 2.71 1.12 11.06 0.96 3.49 0.89 3.73 1.12 3.03 1.05 5.59 0.00 0.00	#148 Merced 05/17 - 05/23 Accum'd 05/24 - 05/30 Water Seasonal Estimated Use Water Use ETc 1.54 10.86 1.63 1.02 2.71 1.39 1.12 11.06 1.13 0.96 3.49 1.07 0.89 3.73 1.01 1.12 3.03 1.15 1.05 5.59 1.27	With the seasonal interval inter	#148 Merced 05/17 - 05/23 Accum'd 05/24 - 05/30 05/17 - 05/23 Water Seasonal Estimated Water Water Use Water Use ETc Use Use 1.54 10.86 1.63 1.70 1.02 2.71 1.39 1.13 1.12 11.06 1.13 1.23 0.96 3.49 1.07 1.06 0.89 3.73 1.01 1.00 1.12 3.03 1.15 1.21 1.05 5.59 1.27 1.20	V #148 Merced #39 Parlier 05/17 - 05/23 Accum'd 05/24 - 05/30 05/17 - 05/23 Accum'd Water Seasonal Estimated Water Seasonal Use Water Use ETc Use Water Use 1.54 10.86 1.63 1.70 11.31 1.02 2.71 1.39 1.13 2.89 1.12 11.06 1.13 1.23 11.60 0.96 3.49 1.07 1.06 3.71 0.89 3.73 1.01 1.00 3.92 1.12 3.03 1.15 1.21 3.21 1.05 5.59 1.27 1.20 5.92	#148 Merced #39 Parlier 05/17 - 05/23 Accum'd 05/24 - 05/30 Water Seasonal Estimated Use Water Use ETc 1.54 10.86 1.63 1.02 2.71 1.39 1.12 11.06 1.13 0.96 3.49 1.07 1.12 3.03 1.15 1.12 3.03 1.15 1.12 3.03 1.15 1.20 5.59 1.27 1.20 5.92 1.29	#148 Merced #39 Parlier 05/17 - 05/23 Accum'd 05/24 - 05/30 Water Seasonal Estimated Use Water Use ETc 1.54 10.86 1.63 1.02 2.71 1.39 1.12 11.06 1.13 0.96 3.49 1.07 1.12 3.03 1.15 1.12 3.03 1.15 1.12 3.03 1.15 1.21 3.02 1.13	#148 Merced #39 Parlier #25 05/17 - 05/23 Accum'd 05/24 - 05/30 05/17 - 05/23 Accum'd 05/24 - 05/30 05/17 - 05/23 05/17 - 05/23 05/17 - 05/23 Water 05/24 - 05/30 05/17 - 05/23 Water Use Use 105/17 - 05/23 Water Use 105/17 - 05/23 Water Use 105/17 - 05/23 Water Use 105/17 - 05/23 105/17 - 05/23 105/17 - 05/23 116/9 11.05 1.69 11.11 1.11 1.11 1.11 1.11 1.11 1.05 0.99 1.05 0.99 1.05 0.99 1.05 0.99 1.12 3.21 1.17 <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

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 WEE	KLY APPL	IED WATE	R IN INCHE	CS, ADJUSTI	ED FOR EF	FICIENCY ¹					
Crops		#148 Merce	ed		#39 Parlier							
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.4	2.1	1.8	1.6	2.6	2.3	2.0	1.8	2.6	2.3	2.0	1.8
Pistachio (4/20)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.7	1.5	1.3	1.2
Citrus (2/1)	1.7	1.5	1.3	1.2	1.9	1.6	1.4	1.3	1.9	1.6	1.4	1.3
Raisin Grapes (3/11) (11 ft. row spacing)***	As	ssume all gra	ipe	1.0	Assume all grape 1.1			1.1	A	1.1		
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	irrig	ation type is	drip	0.9	irrigation type is drip		drip	1.1	irrig	ation type is	drip	1.0
Walnuts (4/20)	1.7	1.5	1.3	1.2	1.9	1.6	1.4	1.3	1.8	1.6	1.4	1.3
Stone Fruit (3/11)	1.6	1.4	1.2	1.1	1.8	1.6	1.4	1.3	1.8	1.6	1.4	1.3

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 W	ATER IN G	ALLON PE	R TREE OR	VINE						
Crops		#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	567	496	425	378	614	543	472	425	614	543	472	425	
Pistachio 106 Trees/A	399	349	299	274	424	374	324	299	424	374	324	299	
Citrus 110 Trees/A	420	370	321	296	469	395	346	321	469	395	346	321	
Raisin Grapes 566 Vines/A	А	Assume all grape			Assume all grape 53			53	As	ape	53		
Winegrapes 622 Vines/A	irri	gation type is	s drip	39	irrigation type is drip		48	irrigation type is drip		s drip	44		
Walnuts 76 Trees/A	607	536	464	429	679	572	500	464	643	572	500	464	
Stonefruit 172 Trees/A	253	221	189	174	284	253	221	205	284	253	221	205	
For further information concerning all counties receiving this rep	port, contact the Fresno	Co. Farm Adv	visor's office a	t (559) 241-	7526								

UCCE/DWR Weekly Crop Water Use Report

University of California

Agriculture and Natural Resources

Making a Difference for California

WEEKLY SOIL MOISTURE LOSS IN INCHES

	(Es	timated Cro	p Evapotransp	piration or I	ET _C)						
		05/17/	/24 through 05	/23/24							
Crops (Leafout Date)	#	#124 Panoch	ie		#	2 Five Point	ts	#			
	05/17-05/23	Accum'd	05/24- 05/30		05/17-05/23	Accum'd	05/24- 05/30	05/17-05/23	Accum'd	05/24- 05/30	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated	Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc	Use	Water Use	ETc	
Almonds $(3/1)$ *	1.77	11.33	1.78		1.82	11.65	1.88	1.55	10.67	1.88	
Pistachio (4/20) * **	1.19	3.10	1.49		1.23	3.22	1.59	1.02	2.76	1.59	
Citrus (2/1)	1.29	11.97	1.26		1.33	12.43	1.30	1.12	11.54	1.30	
Raisin Grapes (3/11) (11 ft. row spacing)	1.11	3.84	1.16		1.15	3.98	1.22	0.95	3.52	1.22	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	1.00	4.04	1.09		1.04	4.16	1.14	0.88	3.72	1.14	
Walnuts (4/20)	1.28	3.39	1.29		1.33	3.54	1.35	1.10	3.11	1.35	
Stone Fruit (3/11)	1.24	6.25	1.37		1.27	6.35	1.46	1.07	5.71	1.46	
Past 7 days precipitation (inches)		0.00				0.00			0.00		
Accumulated precipitation (inches) (1/1/2024)		6.60				6.86			5.43		1
Accumulated precipitation (inclus) $(1/1/2024)$	<u>ا</u>					0.00			5.75		L

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 Poi	nts						
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/1)	2.7	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.4	2.1	1.8	1.6	
Pistachio (4/20)	1.8	1.6	1.4	1.3	1.9	1.6	1.4	1.3	1.6	1.4	1.2	1.1	
Citrus (2/1)	2.0	1.7	1.5	1.4	2.0	1.8	1.6	1.4	1.7	1.5	1.3	1.2	
Raisin Grapes (3/11) (11 ft. row spacing)	As	ssume all gra	pe	1.2	Assume all grape 1.2			1.2	A	1.0			
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	irrig	ation type is	drip	1.1	irrigation type is drip		drip	1.1	irrigation type is du		drip	0.9	
Walnuts (4/20)	2.0	1.7	1.5	1.3	2.0	1.8	1.6	1.4	1.7	1.5	1.3	1.2	
Stone Fruit (3/11)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.3	1.6	1.4	1.3	1.1	

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%.

	PAS	F WEEKLY	APPLIED W	VATER IN G	GALLON PE	R TREE OR	VINE					
Crops		#124 Panoc	he			#2 Five Poi	nts					
Almonds 115 Trees/A	638	567	496	449	661	567	496	449	567	496	425	378
Pistachio 106 Trees/A	448	399	349	324	473	399	349	324	399	349	299	274
Citrus 110 Trees/A	494	420	370	346	494	444	395	346	420	370	321	296
Raisin Grapes 566 Vines/A	A	ssume all gra	ipe	58	Assume all grape 58			58	А	48		
Winegrapes 622 Vines/A	irrig	ation type is	drip	48	irrigation type is drip			48	irrigation type is drip			39
Walnuts 76 Trees/A	715	607	536	464	715	643	572	500	607	536	464	429
Stonefruit 172 Trees/A	300	268	237	205	316	268	237	205	253	221	205	174
For further information concerning all counties receiving this report	t contact the Fresno C	o Farm Advi	sor's office at	$(559) 241_{-7}$	526				•			-

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

UCCE/DWR Weekly Crop Water Use Report