HEALTHY FOOD SYSTEMS . HEALTHY ENVIRON	NMENTS - HEALTHY	COMMUNITIES . HI
University of California	UC	UCCE/DW.

Agriculture and Natural Resources

Making a Difference for California

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET_C)

	04/05/2	4 through 0	4/11/24									
#	#148 Merce	d		#39 Parlier				#258 Lemon Cove				
4/5 - 4/11	Accum'd	4/12 - 4/18		4/7 - 4/13	Accum'd	4/12 - 4/18		4/7 - 4/13	Accum'd	4/12 - 4/18		
Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated		
Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	_	
0.74	3.40	0.90		0.83	3.57	0.96		0.79	3.35	0.96		
0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00		
0.73	5.12	0.81		0.79	5.37	0.87		0.75	5.15	0.87		
0.10	0.31	0.14		0.13	0.31	0.14		0.11	0.29	0.14		
0.16	0.55	0.00		0.18	0.58	0.00		0.18	0.53	0.00		
0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00		
0.29	1.02	0.46		0.35	1.09	0.49		0.34	1.04	0.49		
	0.34				0.18				0.11			
	14.98				7.83				8.51			
	4/5 - 4/11 Water Use 0.74 0.00 0.73 0.10 0.16 0.00	#148 Merce 4/5 - 4/11 Accum'd Water Seasonal Use Water Use 0.74 3.40 0.00 0.00 0.73 5.12 0.10 0.31 0.16 0.55 0.00 0.00 0.29 1.02	B #I48 Merced 4/5 - 4/11 Accum'd 4/12 - 4/18 Water Seasonal Estimated Use Water Use ETc 0.74 3.40 0.90 0.00 0.00 0.00 0.73 5.12 0.81 0.10 0.31 0.14 0.16 0.55 0.00 0.00 0.00 0.00 0.29 1.02 0.46	H148 Merced 4/5 - 4/11 Accum'd 4/12 - 4/18 Water Seasonal Estimated Use Water Use ETc 0.74 3.40 0.90 0.00 0.00 0.00 0.73 5.12 0.81 0.10 0.31 0.14 0.16 0.55 0.00 0.00 0.00 0.00 0.29 1.02 0.46	H148 Merced 4/5 - 4/11 Accum'd 4/12 - 4/18 4/7 - 4/13 Water Seasonal Estimated Water Use Water Use ETc Use 0.74 3.40 0.90 0.83 0.00 0.00 0.00 0.00 0.73 5.12 0.81 0.79 0.10 0.31 0.14 0.13 0.16 0.55 0.00 0.00 0.29 1.02 0.46 0.35	Harman and a stress of the seasonal seasonal seasonal seasonal seasonal testimated water #39 Parlier 4/5 - 4/11 Accum'd 4/12 - 4/18 4/7 - 4/13 Accum'd Water Seasonal Estimated Water Seasonal Use Water Use ETc Use Water Use 0.74 3.40 0.90 0.83 3.57 0.00 0.00 0.00 0.00 0.00 0.73 5.12 0.81 0.79 5.37 0.10 0.31 0.14 0.13 0.31 0.16 0.55 0.00 0.00 0.00 0.29 1.02 0.46 0.35 1.09 0.34 0.34 0.18 0.18	#148 Merced #39 Parlier 4/5 - 4/11 Accum'd 4/12 - 4/18 Water Seasonal Estimated Use Water Use ETc 0.74 3.40 0.90 0.00 0.00 0.00 0.73 5.12 0.81 0.10 0.31 0.14 0.16 0.55 0.00 0.00 0.00 0.00 0.16 0.55 0.00 0.29 1.02 0.46	#148 Merced #39 Parlier 4/5 - 4/11 Accum'd 4/12 - 4/18 Water Seasonal Estimated Use Water Use ETc 0.74 3.40 0.90 0.00 0.00 0.00 0.73 5.12 0.81 0.10 0.31 0.14 0.16 0.55 0.00 0.00 0.00 0.00 0.18 0.58 0.00 0.10 0.31 0.14 0.10 0.31 0.14 0.129 1.02 0.46 0.34 0.18 0.18	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	#148 Merced #39 Parlier #258 Lemon C 4/5 - 4/11 Accum'd 4/12 - 4/18 4/7 - 4/13 Accum'd 4/12 - 4/18 4/7 - 4/13 Accum'd Water Seasonal Estimated Water Seasonal Use Water Seasonal Estimated Water Seasonal 0.00 <td< td=""><td>#148 Merced #258 Lemon Covernment 4/5 - 4/11 Accum'd 4/12 - 4/18 4/7 - 4/13 Accum'd 4/12 - 4/18 Water Seasonal Estimated Water Seasonal Estimated Water Seasonal Estimated Use Use Water Seasonal Estimated Use Use Water Seasonal Estimated Use Use Seasonal Estimated Use Use Seasonal Estimated Use<!--</td--></td></td<>	#148 Merced #258 Lemon Covernment 4/5 - 4/11 Accum'd 4/12 - 4/18 4/7 - 4/13 Accum'd 4/12 - 4/18 Water Seasonal Estimated Water Seasonal Estimated Water Seasonal Estimated Use Use Water Seasonal Estimated Use Use Water Seasonal Estimated Use Use Seasonal Estimated Use Use Seasonal Estimated Use </td	

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.

*** Raisin Grapes and Winegrapes Irrigation should hold off until midday leaf water potential drops to -1.0 MPa, before that soil moisture reservoir is sufficient to supply the vine water demand. Update will be sent shortly once the

county wide leaf water potential reaches approximate -1.0 MPa	. Growers should adjust the irrigation start	t date based on the individual vineya	rd location and soil type.
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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹													
Crops		#148 Merc	ed			#39 Parlier	•		#258 Lemon Cove				
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%	
Almonds (3/1)	1.1	1.0	0.9	0.8	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8	
Pistachio (TBD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Citrus (2/1)	1.1	1.0	0.9	0.8	1.2	1.1	0.9	0.8	1.2	1.0	0.9	0.8	
Raisin Grapes (3/11) (11 ft. row spacing)***	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis) ***	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	
Walnuts (TBD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Stone Fruit (3/11)	0.4	0.4	0.3	0.3	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	

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 Mer		#39 Parlier	•		#258 Lemon Cove						
Almonds 115 Trees/A	260	236	213	189	307	260	236	213	283	260	213	189	
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus 110 Trees/A	272	247	222	197	296	272	222	197	296	247	222	197	
Raisin Grapes 566 Vines/A	0	0	0	0	0	0	0	5	0	0	0	5	
Winegrapes 622 Vines/A	0	0	0	0	0	0	0	9	0	0	0	9	
Walnuts 76 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0	
Stonefruit 172 Trees/A	63	63	47	47	79	79	63	63	79	79	63	63	
For further information concerning all counties receiving this repo	rt_contact the Frest	o Co Farm	Advisor's of	fice at (559)	241-7526								

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CE/DWR Weekly Crop Water Use Report

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University of California

Agriculture and Natural Resources

Making a Difference for California

	WEEKI	LY SOIL M	IOISTURE	LOSS IN	INCHES							
	(Esti	mated Crop	Evapotrans	piration or	ET _C)							
04/05/24 through 04/11/24												
Crops (Leafout Date)	#	#124 Panocl	ne		#	2 Five Poin	ts			#15 Stratfor	·d	
	4/5 - 4/11	Accum'd	4/12 - 4/18		4/5 - 4/11	Accum'd	4/12 - 4/18		4/5 - 4/11	Accum'd	4/12 - 4/18	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/1) *	0.88	3.20	1.00		0.87	3.24	1.07		0.84	3.11	1.06	
Pistachio (TBD) * **	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	
Citrus (2/1)	0.84	5.36	0.93		0.82	5.53	1.00		0.80	5.37	0.99	
Raisin Grapes (3/11) (11 ft. row spacing)	0.12	0.32	0.14		0.11	0.32	0.18		0.12	0.32	0.17	
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.19	0.59	0.00		0.17	0.57	0.00		0.17	0.57	0.00	
Walnuts (TBD)	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	
Stone Fruit (3/11)	0.37	1.13	0.51		0.38	1.03	0.56		0.34	0.97	0.55	
Past 7 days precipitation (inches)		0.22				0.12				0.13		
Accumulated precipitation (inches) (1/1/2024)		5.81				6.29				4.30		

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.

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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹												
Crops		#124 Pano	che		#2 Five Poi	ints						
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	1.4	1.2	1.0	0.9	1.3	1.2	1.0	0.9	1.3	1.1	1.0	0.9
Pistachio (TBD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citrus (2/1)	1.3	1.1	1.0	0.9	1.3	1.1	1.0	0.9	1.2	1.1	0.9	0.8
Raisin Grapes (3/11) (11 ft. row spacing)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Winegrapes (3/11) (10 ft. spacing on California Sprawl Trellis)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Walnuts (TBD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stone Fruit (3/11)	0.6	0.5	0.4	0.4	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.4

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE													
Crops	#124 Panoche				#2 Five Poi	nts							
Almonds 115 Trees/A	331	283	236	213	307	283	236	213	307	260	236	213	
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus 110 Trees/A	321	272	247	222	321	272	247	222	296	272	222	197	
Raisin Grapes 566 Vines/A	0	0	0	0	0	0	0	0	0	0	0	0	
Winegrapes 622 Vines/A	0	0	0	0	0	0	0	0	0	0	0	0	
Walnuts 76 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0	
Stonefruit 172 Trees/A	95	79	63	63	95	79	63	63	79	79	63	63	
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