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



Making a Difference for California



UCCE/DWR Weekly Crop Wate Report

## WEEKLY SOIL MOISTURE LOSS IN INCHES

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

09/16/22 through 09/22/22

								_
Crops (Leafout Date)	#	#148 Merce	d		#39 Parlier	•	#25	58
	9/16 - 9/22	Accum'd	9/23 - 9/29	9/16 - 9/22	Accum'd	9/23 - 9/29	9/16 - 9/22	
	Water	Seasonal	Estimated	Water	Seasonal	Estimated	Water	
	Use	Water Use	ETc	Use	Water Use	ETc	Use	V
Almonds $(3/1)$ *	0.97	43.70	1.26	1.14	45.15	1.21	1.08	
Pistachio (4/8) * **	0.88	38.52	1.18	1.03	40.01	1.13	0.95	
Citrus (2/1)	0.63	33.05	0.84	0.73	34.16	0.80	0.68	
Raisin Grapes (3/15) (11 ft. row spacing)	0.66	25.59	0.90	0.77	26.61	0.86	0.74	
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	0.75	28.19	1.02	0.88	29.26	0.98	0.81	
Walnuts (4/8)	0.81	39.06	1.13	0.96	40.56	1.08	0.88	
Stone Fruit (3/10)	1.04	37.14	1.41	1.21	38.53	1.36	1.13	
Past 7 days precipitation (inches)	•	0.46			0.11			
Accumulated precipitation (inches) (1/1/2022)		2.90			2.05			
	.1 .0							·

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 stre 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.

ST WEEK	LY APPLII	ED WATER	R IN INCHE	ES, ADJUST	<b>FED FOR E</b>	FFICIENC	CY 1		
	#148 Merc	ed			#39 Parlier	•		#2	2
65%	75%	85%	95%	65%	75%	85%	95%	65%	_
1.5	1.3	1.1	1.0	1.8	1.5	1.3	1.2	1.7	
1.4	1.2	1.0	0.9	1.6	1.4	1.2	1.1	1.5	
1.0	0.8	0.7	0.7	1.1	1.0	0.9	0.8	1.0	
As	sume all gr	ape	0.7	As	sume all gr	ape	0.8	Assu	r
irriga	ation type is	s drip	0.8	irriga	ation type is	s drip	0.9	irrigati	0
1.2	1.1	1.0	0.9	1.5	1.3	1.1	1.0	1.4	
1.6	1.4	1.2	1.1	1.9	1.6	1.4	1.3	1.7	
	65% 1.5 1.4 1.0 As irriga 1.2	#148 Merc           65%         75%           1.5         1.3           1.4         1.2           1.0         0.8           Assume all gr           irrigation type is           1.2         1.1	#148 Merced           65%         75%         85%           1.5         1.3         1.1           1.4         1.2         1.0           1.0         0.8         0.7           Assume all grape         irrigation type is drip           1.2         1.1         1.0	#148 Merced           65%         75%         85%         95%           1.5         1.3         1.1         1.0           1.4         1.2         1.0         0.9           1.0         0.8         0.7         0.7           Assume all grape         0.7         0.7           irrigation type is drip         0.8         0.9           1.2         1.1         1.0         0.9	#148 Merced         65%         75%         85%         95%         65%           1.5         1.3         1.1         1.0         1.8         1.4         1.2         1.0         0.9         1.6           1.0         0.8         0.7         0.7         1.1           Assume all grape         0.7         Ass         irrigation type is drip         0.8         irrigation           1.2         1.1         1.0         0.9         1.5         intrigation         intrigation	#148 Merced#39 Parlier $65\%$ $75\%$ $85\%$ $95\%$ $65\%$ $75\%$ $1.5$ $1.3$ $1.1$ $1.0$ $1.8$ $1.5$ $1.4$ $1.2$ $1.0$ $0.9$ $1.6$ $1.4$ $1.0$ $0.8$ $0.7$ $0.7$ $1.1$ $1.0$ Assume all grape $0.7$ Assume all grape $0.7$ Assume all grape $1.2$ $1.1$ $1.0$ $0.9$ $1.5$ $1.3$	#148 Merced#39 Parlier $65\%$ $75\%$ $85\%$ $95\%$ $65\%$ $75\%$ $85\%$ $1.5$ $1.3$ $1.1$ $1.0$ $1.8$ $1.5$ $1.3$ $1.4$ $1.2$ $1.0$ $0.9$ $1.6$ $1.4$ $1.2$ $1.0$ $0.8$ $0.7$ $0.7$ $1.1$ $1.0$ $0.9$ Assume all grape $0.7$ Assume all grapeirrigation type is drip $1.2$ $1.1$ $1.0$ $0.9$ $1.5$ $1.3$ $1.1$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	#148 Merced#39 Parlier#2 $65\%$ $75\%$ $85\%$ $95\%$ $65\%$ $75\%$ $85\%$ $95\%$ $65\%$ $1.5$ $1.3$ $1.1$ $1.0$ $1.8$ $1.5$ $1.3$ $1.2$ $1.7$ $1.4$ $1.2$ $1.0$ $0.9$ $1.6$ $1.4$ $1.2$ $1.1$ $1.5$ $1.0$ $0.8$ $0.7$ $0.7$ $1.1$ $1.0$ $0.9$ $0.8$ $1.0$ Assume all grape $0.7$ Assume all grape $0.8$ Assuirrigation type is drip $0.8$ irrigation type is drip $0.9$ irrigation $1.2$ $1.1$ $1.0$ $0.9$ $1.5$ $1.3$ $1.1$ $1.0$

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%

	PAST W	EEKLY A	PPLIED W	ATER IN C	GALLON PI	ER TREE (	OR VINE					
Crops		#148 Merc	ed			#39 Parlier	•			#258 Lemo	on Cove	
Almonds 115 Trees/A	354	307	260	236	425	354	307	283	401	331	307	260
Pistachio 106 Trees/A	349	299	249	224	399	349	299	274	374	324	274	249
Citrus 110 Trees/A	247	197	173	173	272	247	222	197	247	222	197	173
Raisin Grapes 566 Vines/A	As	sume all gr	ape	34	As	sume all gr	ape	38	As	sume all gr	ape	38
Winegrapes 622 Vines/A	irrig	ation type is	s drip	35	irriga	ation type is	s drip	39	irriga	ation type is	s drip	39
Walnuts 76 Trees/A	429	393	357	322	536	464	393	357	500	429	357	322
Stonefruit 172 Trees/A	253	221	189	174	300	253	221	205	268	237	205	189
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.							

er	Use

B Lemon C	0.710	
Accum'd	9/23 - 9/29	
Seasonal	Estimated	
Water Use	ETc	
41.87	1.12	
36.80	1.03	
31.87	0.76	
24.45	0.77	
26.87	0.89	
37.46	0.98	
35.37	1.26	
0.00		
2.82		
ess. Weekly	v estimates of	soil moisture
#258 Lemo	n Cove	
75%	85%	95%
1.4	1.3	1.1
1.3	1.1	1.0
0.9	0.8	0.7
ume all gra	ape	0.8
tion type is		0.9
1.2	1.0	0.9
1.5	1.3	1.2
%; and Bord	er-furrow, 50 <sup>o</sup>	
%; and Bord <b>*258 Lemo</b> 331		

## University of California

**Agriculture and Natural Resources** 

Making a Difference for California



UCCE/DWR Weekly Crop Wate Report

## WEEKLY SOIL MOISTURE LOSS IN INCHES

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

09/16/22 through 09/22/22

Crops (Leafout Date)	#	124 Panoch	e	#2	2 Five Poin	ts	#	ŧ15
	9/16 - 9/22	Accum'd	9/23-9/29	9/16 - 9/22	Accum'd	9/23-9/29	9/16 - 9/22	1
	Water	Seasonal	Estimated	Water	Seasonal	Estimated	Water	1
	Use	Water Use	ETc	Use	Water Use	ETc	Use	V
Almonds $(3/1)$ *	1.05	48.51	1.32	1.11	50.37	1.43	1.23	
Pistachio (4/8) * **	0.98	42.42	1.26	1.02	43.89	1.37	1.14	
Citrus (2/1)	0.68	36.59	0.91	0.71	38.08	0.99	0.79	
Raisin Grapes (3/15) (11 ft. row spacing)	0.73	28.16	0.97	0.78	29.22	1.05	0.86	
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	0.83	30.91	1.09	0.87	32.04	1.18	0.97	
Walnuts (4/8)	0.91	43.01	1.21	0.95	44.64	1.27	1.06	
Stone Fruit (3/10)	1.14	40.91	1.49	1.21	42.40	1.60	1.33	
Past 7 days precipitation (inches)		0.01			0.61			
Accumulated precipitation (inches) (1/1/2022)	│         ▲	1.25			1.76			

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 stre 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.

РА	ST WEEKI	LY APPLII	ED WATEF	R IN INCHE	ES, ADJUST	TED FOR E	FFICIENC	Y 1	
Crops		#124 Pano	che			#2 Five Poi	ints		#1
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%
Almonds (3/1)	1.6	1.4	1.2	1.1	1.7	1.5	1.3	1.2	1.9
Pistachio (4/8)	1.5	1.3	1.2	1.0	1.6	1.4	1.2	1.1	1.8
Citrus (2/1)	1.0	0.9	0.8	0.7	1.1	0.9	0.8	0.7	1.2
Raisin Grapes (3/15) (11 ft. row spacing)	As	sume all gr	ape	0.8	As	sume all gr	ape	0.8	Assun
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irriga	ation type is	s drip	0.9	irriga	ation type is	s drip	0.9	irrigatio
Walnuts (4/8)	1.4	1.2	1.1	1.0	1.5	1.3	1.1	1.0	1.6
Stone Fruit (3/10)	1.8	1.5	1.3	1.2	1.9	1.6	1.4	1.3	2.0

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%

	PAST W	<b>EEKLY</b> A	PPLIED W	ATER IN G	GALLON PI	ER TREE (	DR VINE			
Crops		#124 Pano	che			#2 Five Poi	ints		#1	4
Almonds 115 Trees/A	378	331	283	260	401	354	307	283	449	
Pistachio 106 Trees/A	374	324	299	249	399	349	299	274	448	
Citrus 110 Trees/A	247	222	197	173	272	222	197	173	296	
Raisin Grapes 566 Vines/A	As	sume all gr	ape	38	As	sume all gr	ape	38	Assur	a
Winegrapes 622 Vines/A	irriga	ation type is	s drip	39	irriga	ation type is	s drip	39	irrigatio	)
Walnuts 76 Trees/A	500	429	393	357	536	464	393	357	572	
Stonefruit 172 Trees/A	284	237	205	189	300	253	221	205	316	
For further information concerning all counties receiving this report, contact	the Fresno (	Co. Farm Ad	lvisor's offic	e at (559) 24	41-7526.				-	

er	Use	

		-
E CAnadfan	4	
5 Stratfor Accum'd	u 9/23- 9/29	
Seasonal	Estimated	
Water Use	ETc	
51.85	1.38	
45.34	1.32	
38.86	0.94	
30.15	1.02	
33.13	1.14	
46.03	1.25	
43.81	1.55	
0.03		
1.33		
ess. Weekly	v estimates of s	oil moisture
415 Stratfo	rd	
# <mark>15 Stratfo</mark> 75%	rd 85%	95%
		<u>95%</u> 1.3
75%	85%	
75% 1.6	85% 1.4	1.3
75% 1.6 1.5	85% 1.4 1.3 0.9	1.3 1.2
75% 1.6 1.5 1.1 ume all gra	85% 1.4 1.3 0.9 ape	1.3 1.2 0.8
75% 1.6 1.5 1.1	85% 1.4 1.3 0.9 ape	1.3 1.2 0.8 0.9
75% 1.6 1.5 1.1 ume all gra ion type is	85% 1.4 1.3 0.9 ape s drip	1.3 1.2 0.8 0.9 1.0
75% 1.6 1.5 1.1 ume all gra- tion type is 1.4 1.8	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6	1.3 1.2 0.8 0.9 1.0 1.1 1.4
75% 1.6 1.5 1.1 ume all gra- tion type is 1.4 1.8	85% 1.4 1.3 0.9 ape 5 drip 1.2	1.3 1.2 0.8 0.9 1.0 1.1 1.4
75% 1.6 1.5 1.1 ume all gra- tion type is 1.4 1.8 %; and Bordo	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6 er-furrow, 50%	1.3 1.2 0.8 0.9 1.0 1.1 1.4
75% 1.6 1.5 1.1 ume all gra ion type is 1.4 1.8 %; and Border #15 Stratfo	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6 er-furrow, 50% rd	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%.
75% 1.6 1.5 1.1 ume all gra- ion type is 1.4 1.8 %; and Bordo 415 Stratfo 378	85% 1.4 1.3 0.9 ape 3 drip 1.2 1.6 er-furrow, 50% rd 331	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%.
75% 1.6 1.5 1.1 ume all gra ion type is 1.4 1.8 %; and Border 415 Stratfo 378 374	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6 er-furrow, 50% rd 331 324	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%. 307 299
75% 1.6 1.5 1.1 ume all gra ion type is 1.4 1.8 %; and Bordo 415 Stratfo 378 374 272	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6 er-furrow, 50% rd 331 324 222	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%. 307 299 197
75% 1.6 1.5 1.1 ume all gra ion type is 1.4 1.8 %; and Border 415 Stratfo 378 374 272 ume all gra	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6 er-furrow, 50% rd 331 324 222 ape	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%. 307 299 197 43
75% 1.6 1.5 1.1 ume all gra- ion type is 1.4 1.8 %; and Border 415 Stratfo 378 374 272 ume all gra- ion type is	85% 1.4 1.3 0.9 ape 3 drip 1.2 1.6 er-furrow, 50% rd 331 324 222 ape 3 drip	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%. 307 299 197 43 44
75% 1.6 1.5 1.1 ume all gra- ion type is 1.4 1.8 %; and Border 415 Stratfo 378 374 272 ume all gra- ion type is 500	85% 1.4 1.3 0.9 ape 5 drip 1.2 1.6 er-furrow, 50% rd 331 324 222 ape 5 drip 429	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%. 307 299 197 43 44 393
75% 1.6 1.5 1.1 ume all gra- ion type is 1.4 1.8 %; and Border 415 Stratfo 378 374 272 ume all gra- ion type is	85% 1.4 1.3 0.9 ape 3 drip 1.2 1.6 er-furrow, 50% rd 331 324 222 ape 3 drip	1.3 1.2 0.8 0.9 1.0 1.1 1.4 5-75%. 307 299 197 43 44