

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***				#39 Parlier				#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _c		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _c		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _c
Almonds (3/16) *	1.97	20.45	1.90		2.07	20.64	1.89		2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04		2.18	10.85	2.03		2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20		1.30	18.78	1.19		1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55		1.69	13.94	1.54		1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76		1.88	14.60	1.75		1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83		1.92	15.91	1.82		1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69		1.82	14.86	1.68		1.78	14.40	1.68
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33				4.96				3.32		

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.

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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY¹

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	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 (3/16)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1
Pistachio (4/21)	3.2	2.8	2.4	2.2	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9

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	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	732	638	567	496
Pistachio 106 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	106	96	82
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300

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WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc
Almonds (3/16) *							2.03	19.88	1.89
Pistachio (4/21) * **							2.14	10.62	2.03
Citrus (2/1)							1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row)							1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing)							1.85	14.17	1.75
Walnuts (4/4)							1.88	15.37	1.82
Stone Fruit (3/16)							1.78	14.40	1.68
Past 7 days precipitation (inches)		0.00			0.00			0.00	
Accumulated precipitation (inches) (1/1/2018)		6.33			4.96			3.32	

Crop Water Use
AKA Crop Evapotranspiration
Expressed as ET_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 peach
*** CIMIS station #188 Madera II has been used for the weekly report.

Crops	#86 Lindcove			
	65%	75%	85%	95%
Almonds (3/16)	3.1	2.7	2.4	2.1
Pistachio (4/21)	3.3	2.9	2.5	2.3
Citrus (2/1)	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row)	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing)	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.7	2.4	2.1	1.9

Reference Evapotranspiration
Expressed as ET_o
Evapotranspiration from reference surface.
Grass that is well-watered, actively growing,
closely clipped that is completely shading the
soil.

1 The amount of water required by a sprinkler, 70%-85%; and Border-furrow, 50%-75%.

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	732	638	567	496
Pistachio 106 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	106	96	82
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300

Three Tables on this Weekly ET_c Report

UCCE/DWR Weekly Crop Water Use Report

Making a Difference for California



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/29/18 through 07/05/18

TABLE ONE: Weekly ET_c Table

Crops (Leafout Date)	#188 Madera II ***				#39 Parlier				#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc
Almonds (3/16)	1.97	20.45	1.90		2.07	20.64	1.89		2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04		2.18	10.85	2.03		2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20		1.30	18.78	1.19		1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55		1.69	13.94	1.54		1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76		1.88	14.60	1.75		1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83		1.92	15.91	1.82		1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69		1.82	14.86	1.68		1.78	14.40	1.68
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33				4.96				3.32		

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System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/16)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1
Pistachio (4/21)	3.2	2.8	2.4	2.2	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3
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Walnuts (4/4)	1.82	15.75	1.83		1.92	15.91	1.82		1.88	15.37	1.82
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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY¹

TABLE TWO: Weekly Applied Water, Adjusted for Irrigation System Efficiency

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (2/16)	2.9	2.6	2.3	2.1	2.2	2.8	2.4	2.2	2.1	2.7	2.4	2.1
Pistachio (4/21)										2.5	2.3	
Citrus (2/1)										1.5	1.3	
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
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Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76	1.88	14.60	1.75	1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83	1.92	15.91	1.82	1.88	15.37	1.82
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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY¹

TABLE TWO: Weekly Applied Water, Adjusted for Irrigation System Efficiency

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (2/16)	2.9	2.6	2.3	2.1	2.2	2.8	2.4	2.2	2.1	2.7	2.4	2.1
Pistachio (4/21)	2.5	2.2	2.0	1.9	2.5	2.2	2.0	1.9	2.5	2.2	2.0	1.9
Citrus (2/1)	1.8	1.6	1.5	1.4	1.9	1.7	1.6	1.5	1.8	1.6	1.5	1.4
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

TABLE THREE: Gallons per tree or vine

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	732	638	567	496
Pistachio 100 Trees/A	252	216	190	176	252	216	190	176	252	216	190	176
Citrus 100 Trees/A	180	160	150	140	180	160	150	140	180	160	150	140
Raisin 100 Vines/A	250	220	190	170	260	230	200	180	260	220	200	180
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
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TABLE ONE: Weekly ET_C Table

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_C)
06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***				#39 Parlier				#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _C		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _C		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _C
Almonds (3/16) *	1.97	20.45	1.90		2.07	20.64	1.89		2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04		2.18	10.85	2.03		2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20		1.30	18.78	1.19		1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55		1.69	13.94	1.54		1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76		1.88	14.60	1.75		1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83		1.92	15.91	1.82		1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69		1.82	14.86	1.68		1.78	14.40	1.68
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33				4.96				3.32		

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 loss can be as much as 25 percent higher in orchards with heavy ground cover
** Very vigorous, non-salt affected peak season pistachio
*** CIMIS station #188 Madera II has been taken out of service

$Weekly\ ET_C = ET_O * K_C$
 Each of the seven day's $ET_O * K_C = Daily\ ET_C$.
 Those seven days ET_C is added together for
Weekly ET_C

ing and water stress. Weekly estimates of soil moisture
will be used for the weekly report.

Crops	System Efficiency >>								#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/16)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.7	2.4	2.1	1.9
Pistachio (4/21)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	3.3	2.9	2.5	2.3
Citrus (2/1)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9

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	#188 Madera II				#39 Parlier				#86 Lindcove			
	708	614	543	496	756	661	567	519	732	638	567	496
Almonds 115 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Pistachio 106 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Citrus 110 Trees/A	120	106	91	82	125	110	96	86	125	106	96	82
Raisin Grapes 566 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Winegrapes 622 Vines/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Walnuts 76 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300
Stonefruit 172 Trees/A												

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



TABLE ONE: Weekly ET_C Table

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_C)
06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***				#39 Parlier				#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc
Almonds (3/16) *	1.97	20.45	1.90		2.07	20.64	1.89		2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04		2.18	10.85	2.03		2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20		1.30	18.78	1.19		1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55		1.69	13.94	1.54		1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76		1.88	14.60	1.75		1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83		1.92	15.91	1.82		1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69		1.82	14.86	1.68		1.78	14.40	1.68
Past 7 days precipitation (inches)	0.00				0.00				0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33				4.96				3.32		

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 and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are present.

** Very vigorous, non-salt affected peak season pistachio K_c can be as high as 1.2.

*** CIMIS station #188 Madera II has been taken out of service due to a conversion of the pasture to permanent crops. For the remainder of 2018 irrigation season Historical Average ET₀ will be used for the weekly report.

$$\text{Weekly ET}_C = \text{ET}_O * K_C$$

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>												
Almonds (3/16)												
Pistachio (4/21)												
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9

$$\text{Next Seven Days Estimated ET}_C = \text{Daily Historical ET}_O * K_C$$

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	#188 Madera II				#39 Parlier				#86 Lindcove			
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	732	638	567	496
Pistachio 106 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	106	96	82
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300

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TABLE ONE: Weekly ET_C Table

WEEKLY SOIL MOISTURE LOSS IN INCHES
(Estimated Crop Evapotranspiration or ET_C)
06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _C	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _C	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ET _C
Almonds (3/16) *	1.97	20.45	1.90	2.07	20.64	1.89	2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04	2.18	10.85	2.03	2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20	1.30	18.78	1.19	1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55	1.69	13.94	1.54	1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76	1.88	14.60	1.75	1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83	1.92	15.91	1.82	1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69	1.82	14.86	1.68	1.78	14.40	1.68
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33			4.96			3.32		

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 and water stress. Weekly estimates of soil moisture

loss can be as much as 25 percent higher in orchards where cover crops

** Very vigorous, non-salt affected peak season pistachio K_c can be a

*** CIMIS station #188 Madera II has been taken out of service due to a conversion of the pasture to permanent crops. For the remainder of 2018 irrigation season Historical Average E₁₀ will be used for the weekly report.

$$\text{Weekly ET}_C = \text{ET}_O * K_C$$

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY¹

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	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 (3/16)									2.7	2.4	2.1	
Pistachio (4/21)									2.9	2.5	2.3	
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.7	2.4	2.1	1.9	2.7	2.4	2.1	1.9	2.7	2.4	2.1	1.9

$$\text{Next Seven Days Estimated ET}_C = \text{Historical ET}_O * K_C$$

$$\text{This week's ET}_C + \text{the total from last week} = \text{Accumulated Seasonal Water Use}$$

¹ The amount of water required by a specific irrigation system to satisfy

center-pivot, 70%-85%; and Border-furrow, 50%-75%.

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	732	638	567	496
Pistachio 106 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	106	96	82
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

06/29/18 through 07/05/18

Crops (Leafout Date)	#188 Madera II ***			#39 Parlier			#86 Lindcove		
	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	6/29- 7/5 Water Use	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc
Almonds (3/16) *	1.97	20.45	1.90	2.07	20.64	1.89	2.03	19.88	1.89
Pistachio (4/21) * **	2.08	10.68	2.04	2.18	10.85	2.03	2.14	10.62	2.03
Citrus (2/1)	1.26	18.71	1.20	1.30	18.78	1.19	1.27	18.12	1.19
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55	1.69	13.94	1.54	1.66	13.46	1.54
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76	1.88	14.60	1.75	1.85	14.17	1.75
Walnuts (4/4)	1.82	15.75	1.83	1.92	15.91	1.82	1.88	15.37	1.82
Stone Fruit (3/16)	1.72	14.74	1.69	1.82	14.86	1.68	1.78	14.40	1.68
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2018)	6.33			4.96			3.32		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

* ** by estimates of soil moisture

TABLE TWO: Weekly Applied Water, Adjusted for Irrigation System Efficiency

*** CIMIS station #188 Madera II has been taken out of service due to a conversion of the pasture to permanent crops. For the remainder of 2018 irrigation season, Historical Average ET_c will be used for the weekly report.

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY¹

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	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 (3/16)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1
Pistachio (4/21)	3.2	2.8	2.4	2.2	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7

Weekly Applied Water = ET_c from Table One / Irrigation System Efficiency

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%.

Crops
Almonds 115 Trees/A
Pistachio 106 Trees/A
Citrus 110 Trees/A
Raisin Grapes 566 Vines/A
Winegrapes 622 Vines/A
Walnuts 76 Trees/A
Stonefruit 172 Trees/A

Drip ~ 80% - 95%
Micro-sprinkler ~ 80% - 90%
Sprinkler ~ 70% - 85%
Border/Furrow ~ 50% - 70%

	#86 Lindcove			
519	732	638	567	496
573	822	722	623	573
346	494	420	370	321
86	125	106	96	82
87	122	109	96	83
715	1036	893	786	715
300	426	379	332	300

For further information concerning all counties receiving this report, contact



WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ETc)

06/29/18 through 07/05/18

TABLE THREE: Gallons per tree or vine

Crops (Leafout Date)	#188 Madera II ***				#39 Parlier				#86 Lindcove			
	6/29- 7/5 Water	Accum'd Seasonal Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc		6/29- 7/5 Water	Accum'd Seasonal Water Use	7/6- 7/12 Estimated ETc	
	1.26	18.71	1.20		2.07	20.64	1.89		2.03	19.88	1.89	
Citrus (2/1)	1.26	18.71	1.20		2.07	20.64	1.89		2.03	19.88	1.89	
Raisin Grapes (3/16) (11 ft. row spacing)	1.62	13.86	1.55		2.18	10.85	2.03		2.14	10.62	2.03	
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	1.80	14.50	1.76		1.30	18.78	1.19		1.27	18.12	1.19	
Walnuts (4/4)	1.62	13.86	1.55		1.69	13.94	1.54		1.66	13.46	1.54	
Stone Fruit (3/16)	1.80	14.50	1.76		1.88	14.60	1.75		1.85	14.17	1.75	

**Gallons per tree or vine (seven day period) = Weekly Applied Water * 27,154
gallons per A" / number of trees or vines per A**

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop
* Estimated
** Variable
*** Constant

**Almonds - 2.2" * 27,154 gallons per A" / 115 trees per A = 519 Gallons per tree
(seven day period)**

Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	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 (3/16)	3.0	2.6	2.3	2.1	3.2	2.8	2.4	2.2	3.1	2.7	2.4	2.1
Pistachio (4/21)	3.2	2.8	2.4	2.2	3.4	2.9	2.6	2.3	3.3	2.9	2.5	2.3
Citrus (2/1)	1.9	1.7	1.5	1.3	2.0	1.7	1.5	1.4	2.0	1.7	1.5	1.3
Raisin Grapes (3/16) (11 ft. row spacing)	2.5	2.2	1.9	1.7	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7
Winegrapes (3/16) (10 ft. spacing on California Sprawl Trellis)	2.8	2.4	2.1	1.9	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9
Walnuts (4/4)	2.8	2.4	2.1	1.9	3.0	2.6	2.3	2.0	2.9	2.5	2.2	2.0
Stone Fruit (3/16)	2.6	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.7	2.4	2.1	1.9

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PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE												
Crops	#188 Madera II				#39 Parlier				#86 Lindcove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds 115 Trees/A	708	614	543	496	756	661	567	519	732	638	567	496
Pistachio 106 Trees/A	797	698	598	548	847	722	648	573	822	722	623	573
Citrus 110 Trees/A	469	420	370	321	494	420	370	346	494	420	370	321
Raisin Grapes 566 Vines/A	120	106	91	82	125	110	96	86	125	106	96	82
Winegrapes 622 Vines/A	122	105	92	83	127	109	96	87	122	109	96	83
Walnuts 76 Trees/A	1000	857	750	679	1072	929	822	715	1036	893	786	715
Stonefruit 172 Trees/A	410	363	316	284	442	379	332	300	426	379	332	300

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NOTICES

Possible rainfall errors, many CIMIS Station sites are being irrigated

and sprinkler spray is being recorded as rain.



Overview

Getting Started

CIMIS Staff

System News

FAQs

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CIMIS Overview

The following sections give a brief overview of CIMIS. Sections include the following: Introduction; Data Collection, Transmission, and Processing; Data Retrieval by Users; ETo Maps (Spatial CIMIS); and Trends in CIMIS Data Use. Please click on the arrow to the right of each title below to access the section.

Introduction

The California Irrigation Management Information System (CIMIS) is a program unit in the Water Use and Efficiency Branch, Division of Statewide Integrated Water Management, California Department of Water Resources (DWR) that manages a network of over 145 automated weather stations in California. CIMIS was developed in 1982 by DWR and the University of California, Davis (UC Davis). It was designed to assist irrigators in managing their water resources more efficiently. Efficient use of water resources benefits Californians by saving water, energy, and money.

Data Collection, Transmission, and Processing

Data Retrieval by Users

ETo Maps (Spatial CIMIS)

Trends in CIMIS Data Users



Login | Register

<https://cimis.water.ca.gov>

CIMIS

PS12 POWER SUPPLY
WITH 12V CHARGING REGULATOR

CAMPBELL SCIENTIFIC
INC. Logan, Utah

MADE IN USA

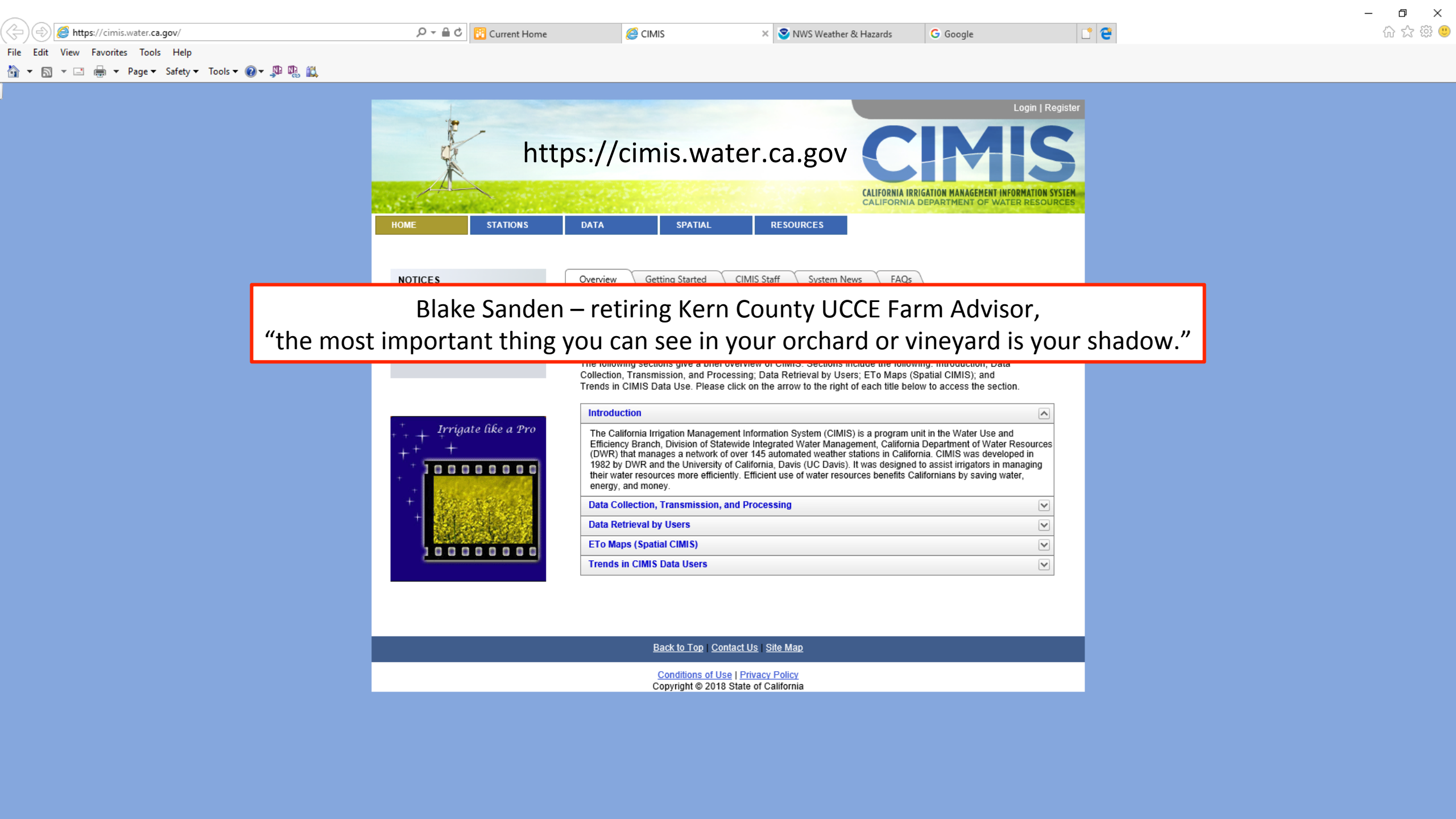
WARNING:
PERMANENT DAMAGE TO RECHARGEABLE
CELLS MAY RESULT IF DISCHARGED
BELOW 10.5 VOLTS

FUNCTION	
+	POSITIVE BATTERY
-	NEGATIVE BATTERY
+	SYSTEM POSITIVE (+5VDC)
-	SYSTEM GROUND (0VDC)
+	POWER TO I/O TERMINALS
-	POWER TO I/O TERMINALS
+	POWER TO I/O TERMINALS
-	POWER TO I/O TERMINALS

COM200 MODEM

MA-3172

MADE IN USA



Blake Sanden – retiring Kern County UCCE Farm Advisor,
“the most important thing you can see in your orchard or vineyard is your shadow.”



The following sections give a brief overview of CIMIS. Sections include the following: Introduction; Data Collection, Transmission, and Processing; Data Retrieval by Users; ETo Maps (Spatial CIMIS); and Trends in CIMIS Data Use. Please click on the arrow to the right of each title below to access the section.

- Introduction** [up arrow]
- Data Collection, Transmission, and Processing** [down arrow]
- Data Retrieval by Users** [down arrow]
- ETo Maps (Spatial CIMIS)** [down arrow]
- Trends in CIMIS Data Users** [down arrow]

NOTICES

Possible rainfall errors, many CIMIS Station sites are being irrigated

and sprinkler spray is being recorded as rain.

[Overview](#)[Getting Started](#)[CIMIS Staff](#)[System News](#)[FAQs](#)

You may [Email](mailto:DWRCIMISPublicContact@water.ca.gov) (DWRCIMISPublicContact@water.ca.gov) or call us at CIMIS headquarters in Sacramento or contact your Regional office below. CIMIS Staff is generally available during normal business hours from 8 am to 5 pm. Regional Office Representatives listed below.

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