

Actual Evapotranspiration: A New Tool to Help Growers Manage Water to Meet Their Production Goals



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Brief Technology Background

How Growers Use the Technology



What is the water status of my field?

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What do I do about it?



Tule's Three Building Blocks

1. Water Stress

2. Actual Evapotranspiration

3. Irrigation Application Amounts



What is the water status of my field?

1. Water Stress Level

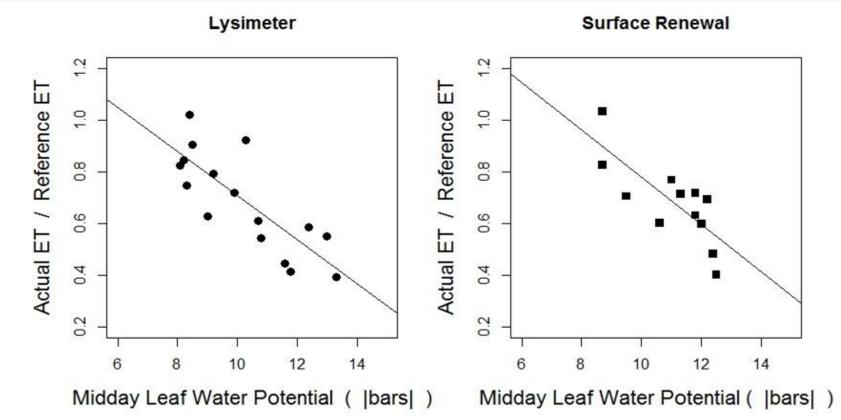
What do I do about it?

2. Actual Evapotranspiration 3. Irrigation Application Amounts





1. Water Stress Level



2. Actual Evapotranspiration



- Irrigate to replace what was lost to ET
- Not CIMIS
- 1 10 acres
- Wind eddies transport water vapor

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3. Irrigation Application Amounts





Surface Renewal



- UC Davis, USDA-ARS
- Paw U, Snyder, McElrone, and Shapland

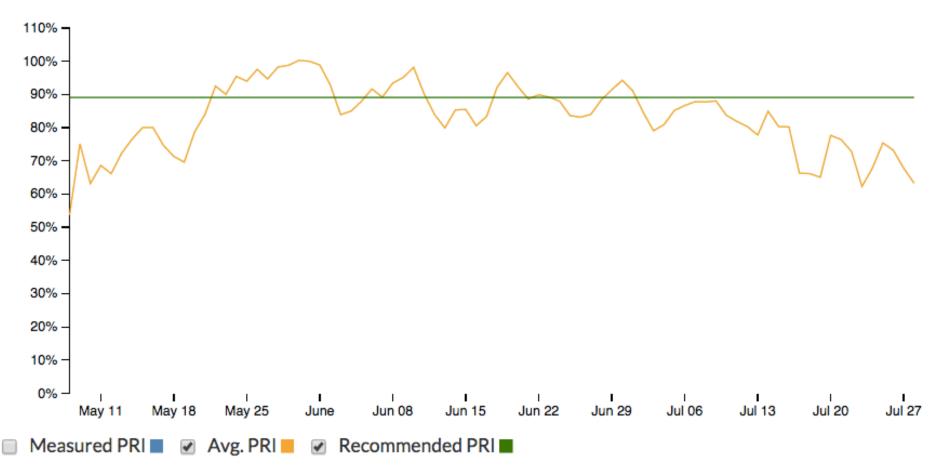


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Plant Response Index (Actual ET / Reference ET)



Quantity of Water (inches) to Apply As Percentage Last Week's Actual ET

*The highlighted column below is Tule's irrigation recommendation

Percentage of Actual ET (inches)				
90%	100%	110%	120%	130%
0.90*	1.00*	1.10*	1.20*	1.30*





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