

# 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**

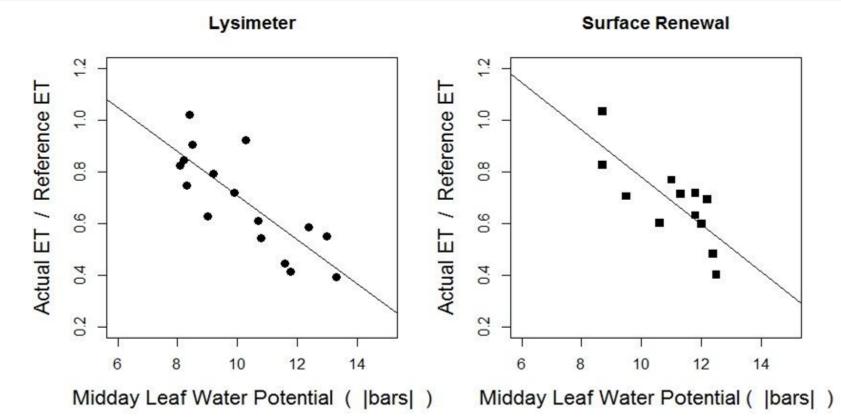
#### What do I do about it?

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

9

#### **3. Irrigation Application Amounts**





#### **Surface Renewal**



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

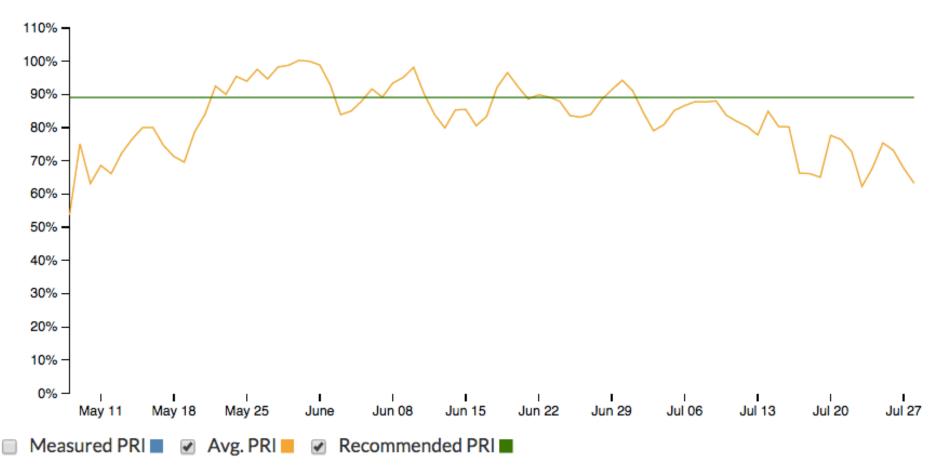


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#### Plant Response Index (Actual ET / Reference ET)



#### 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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