

Soil Moisture Probe OVERVIEW

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Louisiana Agricultural
Technology & Management
Conference

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REAL-TIME IRRIGATION DECISIONS

Profitable Decisions

- Irr. timing(furrow)/Pivot Speed
- Better use of fertilizer
- Improve irrig. efficiency
- Increase sustainability

Measuring....

- Soil Moisture
- EC
- Temperature

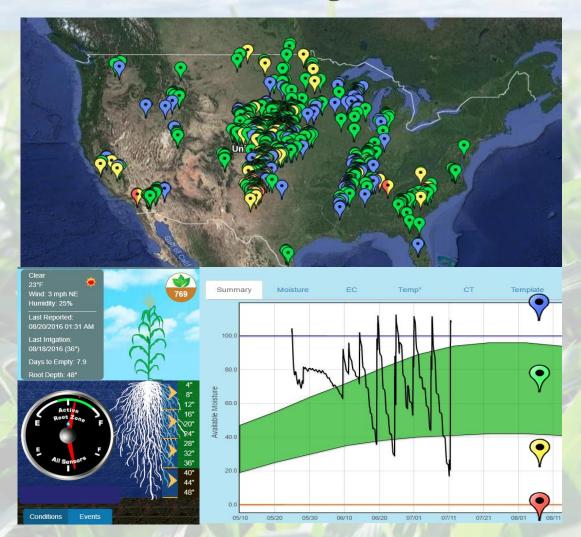
Every 4" down the profile





Our System

Algorithm Driven, Intuitive User Interface

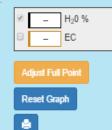


- Map of Fields in Use
- Pin colors indicate current status of field
- Fuel Gauge Provides Simple, Visual Indicator
- Template Monitors Performance Over Time

MONITORING MADE SIMPLE

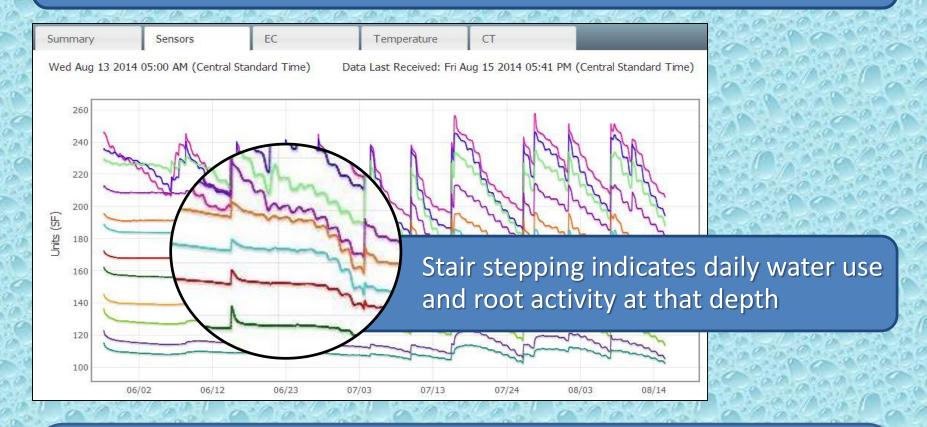






Tech

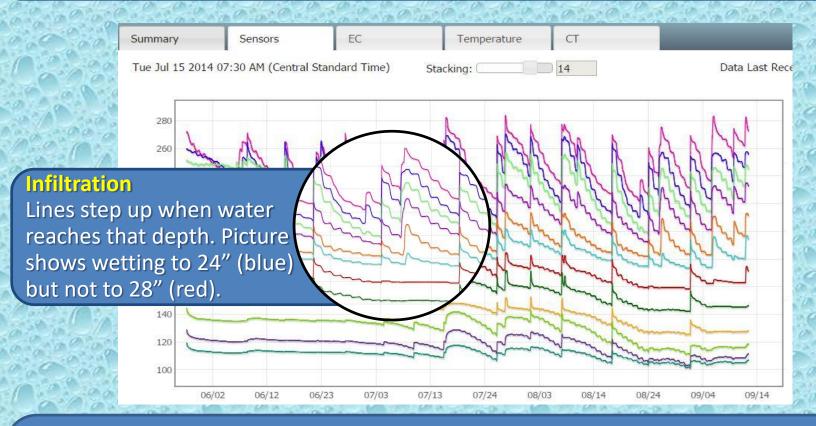
DEPTH OF ROOTZONE



Why is root growth so important?

- Deeper roots mean access to great moisture at key times.
- Accurate final irrigation decision based on ACTUAL root depth and soil H₂O
- Better access to fertilizer and nutrients
- Reduce lodging and better harvestability
- Better roots = Improved yield

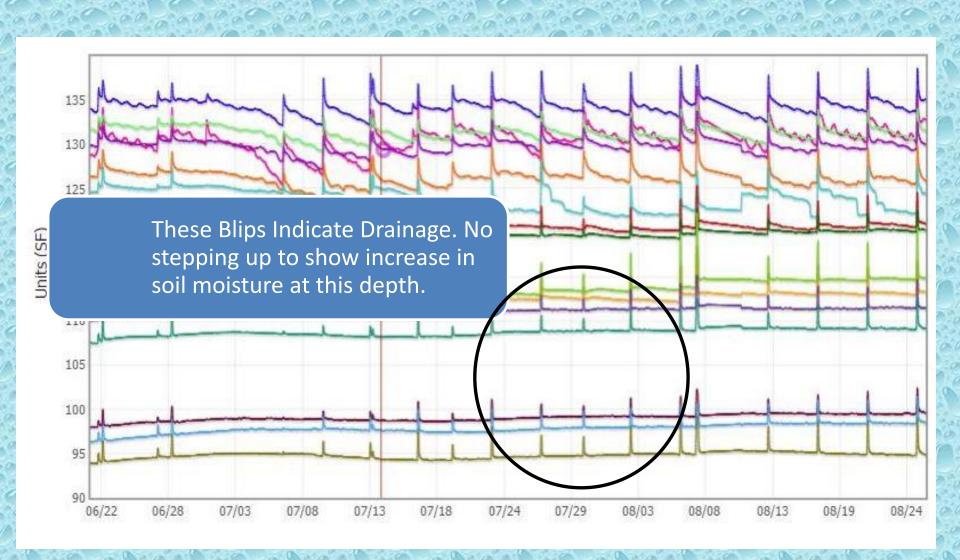
WATER INFILTRATION



Why is infiltration so important?

- Not wetting deep enough = slow down pivot
- Wetting too deep = speed up pivot
- Place the water only in the active root zone
- Avoid over irrigation
- Probe data provides a report card on the effectiveness of EVERY irrigation

DRAINAGE



4. FINAL IRRIGATION

How do I know when to stop?

- Calculate end date for usage
- Look at consumption
- Observe slow down in usage
- Estimate if you need more water
- Irrigate based on THIS crop in THIS year rather than "rules of thumb"

