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Introduction

- Educational Background
 - B.S. Fort Hays State University (Emphasis: Agronomy)
 - M.S. The University of Arizona (Emphasis: Plant Science, Controlled Environment Agriculture)
 - Ph.D. University of Arkansas (Emphasis: Plant Science, Greenhouse ornamental crop production)









Introduction

- Professional Background
 - Agricultural measurement technology e.g. weather stations, soil moisture, soil and plant fertility
 - Greenhouse production supplies e.g. greenhouse lighting (LEDs), soilless growing media, plant nutrition
 - Huma Gro!!!

Current On-Farm Field Trials

• Field Trials:

HUMA Calor GRC

- Basic product trials with or without replication
- Mid-South
 - Arkansas (AR)
 - Missouri (MO)
- Midwest
 - Ohio (OH)
 - Iowa (IA)
 - South Dakota (SD)



On-Farm Field Trials

- Purpose
 - Provide fact-based answers
 - Seek to answer important questions that serve to validate previous information or convince growers that an alternative crop management practice is <u>profitable</u>
- Design Considerations
 - Size/Scope, Replications, Treatments (control) and
 K.I.S.S. (Keep It Simple, S...)
- Win³



On-Farm Field Trials: Design Example

		Border rows
Rep 1	Plot 1	Treatment 2
	Plot 2	Treatment 1
	Plot 3	Treatment 3
Rep 2	Plot 4	Treatment 2
	Plot 5	Treatment 3
	Plot 6	Treatment 1
Rep 3	Plot 7	Treatment 3
	Plot 8	Treatment 2
	Plot 9	Treatment 1
		Border rows

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Field Trials: Mid-South

- Arkansas
 - Crops: corn, soybeans, rice, cotton, sorghum
- Missouri
 - Crops: soybeans



Mid-South: Soybeans











Field Trials: Midwest

- Ohio
 - Crop: soybeans
- Iowa and South Dakota
 - Corn residue



Field Trials: Midwest (OH)

- Location: Hilliard, OH
- Crop: Soybean
- Treatments
 - Control: No foliar fertilizer
 - Conventional: Prudent
 Presto (1 gal./a, applied
 twice)
 - Huma Gro: Vitol + Lucky 7
 (1 qt./a ea., applied twice)
- Results pending





Field Trials: Midwest (OH)



Figure 1. Control, no foliar treatment



Figure 2. Conventional (Presto) at 1 gal. per acre, repeated twice (Total = 2 gal./a)



Figure 3. Huma Gro (Vitol + Lucky 7), 1 qt. ea. per acre, repeated twice (Total = 2 qt./a each product)

HUMA CAGRO

Field Trials: Midwest (IA)

- Crop: Corn residue (no-till)
- Product: Fertil Humus
- Rates: two rates (1 or 2 qt./a)
- Experimental plots:
 - 3 x 20 acre plots; no-till; 1 qt./a
 - 3 x 20 acre plots; no-till; 2 qt./a
- Results: pending 2015

HUMA C-KGRO

Field Trials: Midwest (SD)

- Crop: Corn residue (no-till and conventional tillage)
- Product: Fertil Humus
- Rates: two rates (1 or 2 qt./a)
- Experimental plots:
 - 4 x 5 acre plots; no-till; 1 qt./a
 - 4 x 5 acre plots; conventional tillage; 1 qt./a
 - 4 x 5 acre plots; no-till; 2 qt./a
 - 4 x 5 acre plots; conventional tillage; 2 qt./a
- Results: pending 2015



Future Field Trials

• Soybean (AR, MO, OH)

Breakout/Vitol rotation + Lucky 7, Super K

- Rice (AR)
 - Fertil Humus on rice stubble
- Sugarcane (LA)
 - Super Nitro, Super Phos, Super K, Vitol, Max Pak,
 Soil-Max+



Thank you!

