



**Research Site Leaders:**  
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**SITE CHARACTERISTICS**

- Soil: Montgomery silty clay loam, Blount silt loam
- Rotation: Corn-Soybean, occasionally Wheat

**WATER MANAGEMENT PRACTICES**

- Conventional Drainage (depth 3', spacing 40')
- Controlled Drainage (depth 3', spacing 40')

**SITE MEASUREMENTS (2008-2015; n= # of years)**

- Tile Flow (n = 8)
- Tile Water Quality: Nitrate-N, Reactive P (n = 5)
- Water Table Depth (n = 5)
- Soil Texture (n = 1)
- Soil Bulk Density (n = 3)
- Soil Water Retention: 0, 0.003, 0.05, 0.1, 0.33, 15 bar (n = 3)
- Soil Moisture and Temperature (n = 5)
- Soil Fertility: pH, CEC, SOC, Total N (n = 3)
- Soil Nitrate (n = 5)
- Crop Yield (n = 8)
- Final Plant Population (n = 4)
- Biomass: Vegetative, Grain, Cob (n = 2)
- Total N: Vegetative, Grain, Cob (n = 3)
- Total C: Vegetative, Grain, Cob (n = 3)
- On-Site Weather Station: Precipitation, Air Temp, RH, Solar Radiation, Wind Speed and Direction (n = 5)