NORTHEAST-PURDUE AGRICULTURAL CENTER
RESEARCH AND DEMONSTRATION PROJECTS
2018

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Department of Agronomy

Corn Hybrid Performance Trials
Purpose: State corn hybrid yield trial.
   Contacts: Phil DeVillez and Bill Foster; Agronomy

Industry Corn Hybrid x Nitrogen Rate Trial
Purpose: To evaluate Nitrogen rate effects in industry-supplied corn hybrids.
   Contacts: Phil DeVillez and Bill Foster; Agronomy

Soybean Varietal Performance Trial
Purpose: State soybean varietal yield trial.
   Contacts: Phil DeVillez and Bill Foster; Agronomy

Industry Soybean Performance Trial
Purpose: Industry soybean varietal yield trial.
   Contacts: Phil DeVillez and Bill Foster; Agronomy

Non-Glyphosate Tolerant Soybean Varietal Performance Trial
Purpose: To evaluate non-Roundup Ready soybean varieties.
   Contacts: Phil DeVillez and Bill Foster; Agronomy

Organic Research
Purpose: To transition conventional production farmland into Certified Organic farmland suitable for research with the use of cover crops.
   Contacts: Michael O'Donnell; Extension

Corn Yield Response to Seeding Rates
Purpose: Field-scale trial to compare yield response to seeding rates.
   Contact: Bob Nielsen and Jim Camberato; Agronomy

Corn Response to In-furrow & Sidedress Applications of Sulfur Fertilization
Evaluate corn response to sulfur fertilization.
   Contacts: Bob Nielsen and Jim Camberato, Agronomy
Department of Agronomy (Continued)

**Corn Yield Response to Biological Inoculants**
Purpose: Field-scale trial to compare the effect on corn of various commercially available biological inoculants.
   Contact: Bob Nielsen, Jim Camberato and Jason Lee; Agronomy

**Comparison of In-furrow and 2x2 Starter Fertilizers on the Growth, Development, and Yield of Continuous Corn**
Purpose: Better define fertilizer response of corn for making fertility recommendations in monoculture corn systems.
   Contacts: Bob Nielsen, Jim Camberato and Cody Hornaday; Agronomy

**Indigenous Soil Potassium (K) Supply, Fertilizer K Use-efficiency, and K Budgets in Indiana Corn Production**
Purpose: Evaluate the agronomic efficiency of currently recommended Potassium (K) fertilizer rates and evaluate theoretically improved soil K tests for the ability to predict soil K supply.
   Contacts: Sylvie Brouder and Nicole DeArmond; Agronomy

**Indigenous Soil Potassium (K) Supply, Fertilizer K Use-efficiency, and K Budgets in Indiana Soybean Production**
Purpose: Evaluate the agronomic efficiency of currently recommended Potassium (K) fertilizer rates and evaluate theoretically improved soil K tests for the ability to predict soil K supply.
   Contacts: Sylvie Brouder and Nicole DeArmond; Agronomy

**Long-term Impact of Cover Crops on Cash Crop Nutrient Uptake, Yield and N Application Rate and Products**
Purpose: To elucidate barriers in cover crop inclusion, deepen our understanding of cover crop to affect the availability of manure and inorganic N to cash crops in multiple cropping systems.
   Contact: Shalamar Armstrong and Corey Lacey; Agronomy

**Corn Response to Cereal Rye Cover Crop and Stater Fertilizer Interactions**
Purpose: To evaluate corn response to cover crop and starter fertilizer treatments
   Contact: Shalamar Armstrong and Houston Miller; Agronomy

**Soybean Variety x Seeding Rate Trial**
Purpose: To fine-tune soybean seeding rate recommendations for Indiana growers.
   Contact: Shaun Casteel; Agronomy

**Soybean Response to Sulfur Fertilization and Other Foliar Applications**
Purpose: To evaluate sulfur applications to soybeans with and without glyphosate
   Contact: Shaun Casteel; Agronomy

**Long-term Cover Crop Trial**
Purpose: An evaluation of corn and soybean response to various cover crops with emphasis on soil physical properties.
   Contact: Eileen Kladivko; Agronomy
Department of Agronomy (Continued)

Purdue Automated Agricultural Weather Station (PAAWS)
Purpose: Automated collection of weather data from this site is sent to the Indiana State Climate Office at Purdue University - data can be observed at: http://climate.agry.purdue.edu
Contacts: Rich Grant & Ken Scheeringa; Agronomy

Department of Entomology

Soybean Aphid Suction Trap Network
Purpose: Monitor flight of soybean aphids.
Contact: Christian Krupke; Entomology

Specialty Crops Research Initiative (SCRI) - Impact of Neonicotinoid Insecticides on honeybee pollinators of melons.
Purpose: Evaluate the effects of neonicotinoid insecticides on honey bee pollinators
Contact: Laura Ingwell, Christian Krupke, Rick Foster, Larry Bledsoe, Entomology

Insect Pest Monitoring Network
Purpose: Monitor insect pest levels of corn, soybeans and wheat.
Contact: John Obermeyer; Entomology

Halothane Research Survey
Purpose: Use DNA samples from Heliothine moths (Corn earworm) collected weekly throughout the United States to determine the phenology and distribution of a group of viruses known to infect those moths and determine how to use those viruses in IPM strategies.
Contact: Paul Baker, Bruce Webb UKY and John Obermeyer; Entomology

Cooperative Ag Pest Survey (CAPS) for Exotic Insect Pests
Purpose: Monitor exotic insect pest levels of corn, soybeans and oak.
Contact: Larry Bledsoe; Entomology

Department of Forestry and Natural Resources

Understanding habitat needs of Northern Long-eared bats
Purpose: Monitor activity of Northern Long-eared bats through various collection methods.
Contact: Cheyenne Gerdes, Dr. Patrick Zollner, Forest and Natural Resources