

NORTHEAST-PURDUE AGRICULTURAL CENTER RESEARCH AND DEMONSTRATION PROJECTS 2020

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Department of Agronomy

Corn Yield Response to In-furrow Biological Products

Purpose: Field-scale trial to compare yield response to biological products.
Contact: Bob Nielsen and Jim Camberato; Agronomy

Corn Yield Response to Previous Soybean Seeding Rates

Purpose: Field-scale trial to compare yield response to prior years soybean 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

Soybean Response to Variable Sulfur Applications in Previous Corn Crop

Evaluate soybean response to sulfur fertilization the year before in corn.
Contacts: Bob Nielsen and Jim Camberato, Agronomy

Comparison of 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 and Jim Camberato; 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: Jim Camberato; Agronomy

Department of Agronomy (Continued)

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; Agronomy

Corn Response to Cereal Rye Cover Crop and Starter Fertilizer Interactions

Purpose: To evaluate corn response to cover crop and starter fertilizer treatments

Contact: Shalamar Armstrong; Agronomy

Corn Response to Fungicide Applications

Purpose: To evaluate corn response to fungicide applications at different growth stages

Contact: Darcy Telenko; Agronomy

Soybean Response to Fungicide Applications

Purpose: To evaluate soybean response to fungicide applications at different growth stages

Contact: Darcy Telenko; Agronomy

Soybean Variety x Seeding Rate Trial

Purpose: To fine-tune soybean seeding rate recommendations for Indiana growers.

Contact: Shaun Casteel; Agronomy

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: Beth Hall and Rich Grant; Agronomy

Department of Entomology

Transitional Organic Crop Production Research

Purpose: To transition conventional production farmland into Certified Organic farmland suitable for research with the use of cover crops and minimal tillage practices

Contacts: Michael O'Donnell; Extension, Christian Krupke; 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 honey bee 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