

NORTHEAST PURDUE AGRICULTURAL CENTER RESEARCH AND DEMONSTRATION PROJECTS 2021

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Department of Agronomy

Corn Yield Response to Starter Fertilizer and Population Rates

Evaluate corn response to starter and population rates.

Contact: Dan Quinn, Bob Nielsen and Jim Camberato; Agronomy

Corn Yield Response to Sidedress Applications of Sulfur Fertilizer

Evaluate corn response to sulfur fertilization.

Contacts: Bob Nielsen and Jim Camberato, Agronomy

Effects of Early Season Corn Hybrids and Cover Crops

Evaluate short season corn hybrids with use of cover crops.

Contacts: Stephen Boyer & Kyle Barnett, NEPAC

Long-term Effects of Cover Crop in Corn and Soybeans

Evaluate the pros and cons of repeated cover crop use.

Contacts: Stephen Boyer & Kyle Barnett, NEPAC

Soybean Response to Sulfur Applications and Nutrients Carryover into Corn

Evaluate soybean response to sulfur fertilization and next year corn response.

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

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 Richard Roth; Agronomy

Department of Agronomy (Continued)

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

Corn Yield Response to Fungicide Applications

Evaluate corn response to fungicide applications at different growth stages

Contact: Darcy Telenko; Agronomy

Soybean Yield Response to Fungicide Applications

Evaluate soybean response to fungicide applications at different growth stages

Contact: Darcy Telenko; Agronomy

Soybean Variety x Seeding Rate Trial

Evaluate soybean seeding rate recommendations for Indiana growers.

Contact: Shaun Casteel & Richard Smith; Agronomy

Soybean Yield Response to Sulfur and Nitrogen Fertilizer

Evaluate soybean response to various fertilizer applications.

Contact: Shaun Casteel; Agronomy

Department of Entomology

Armyworm Trapping

Monitor armyworm insect pest levels across Indiana.

Contact: John Obermeyer; Entomology

Black Cutworm Pheromone Trapping

Monitor black cutworm insect pest levels across Indiana.

Contact: John Obermeyer; Entomology

Western Bean Cutworm Trapping

Monitor the presence of western bean cutworm across Indiana

Contact: John Obermeyer & Laura Ingwell; Entomology

Corn Ear Worm Trapping

Monitor the presence of corn ear worm across Indiana

Contact: John Obermeyer & Laura Ingwell, Entomology

Indiana Cooperative Aq Pest Survey (CAPS) for Invasive Pests

Purpose: Monitor exotic insect pest levels of corn, soybeans and oak.

Contact: Larry Bledsoe; Entomology

Other Collaborations

Soybean Aphid Suction Trap Network

Monitor soybean aphid pest levels across the country.

Contact: Dave Voegtlin; National Soybean Research Center

Pioneer Enlist Herbicide Demonstration

Evaluate weed control in various herbicide applications

Contact: Lance Shepard, Dupont Pioneer

Pioneer Corn Hybrid Demonstration

Evaluate wide range of corn hybrids.

Contact: Lance Shepard, Dupont Pioneer

Pioneer Soybean Variety Demonstration

Evaluate various soybean varieties.

Contact: Lance Shepard, Dupont Pioneer

Purdue Automated Agricultural Weather Station (PAAWS)

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; Agronomy

Diagnostic Training Center (DTC)

Small plot demonstrations conducted by NEPAC staff to be used as talking points during workshops and field day events

Contacts: Stephen Boyer, Kyle Barnett & Tom Richards, NEPAC Staff