

Northeast Purdue Ag Center List of Research and Demonstration Projects for 2022

Stephen Boyer, Superintendent
4821 East 400 South
Columbia City, IN 46725
(260) 244-7290 office
(765) 744-4337 cell
sboyer@purdue.edu
<https://ag.purdue.edu/department/arge/PACs/nepac/nepac.html>

Department of Agronomy

Corn Yield Response to Starter Fertilizer

Evaluate corn response to starter and population rates.

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

Corn Yield Response to 2021 Residual and Sidedress Applications of Sulfur Fertilizer

Evaluate corn response to sulfur fertilization.

Contact: Bob Nielsen and Jim Camberato, Agronomy

Corn Yield Response to Various Management Practices

Evaluate corn response to intensified management practices such as the use of fungicides, increased seeding rates, early season micronutrient applications and late season nitrogen applications.

Contact: Dan Quin, Agronomy

Corn Yield Response of Short Maturity Corn Hybrids

Evaluate the yield potential of early maturity corn hybrids (< 100 day) followed by seeding of cover crops to maximize weed control and promote soil health.

Contact: Stephen Boyer, NEPAC

Soybean Yield 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

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.

Contact: 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

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

SARE - Ecology of Organic Cropping Systems

Evaluate various organic cropping systems and their effect on weed, insect, and pathogen pressure on corn, soybeans, and other small grains

Contacts: Christian Krupke and Ashley Adair, Extension

Corn Yield Response to Fungicide Applications

Evaluate corn response to fungicide applications at different growth stages

Contacts: Darcy Telenko and Kaitlin Waibel, Agronomy

Corn Yield Response to Starter Fungicide Applications (Xyway)

Evaluate corn response to fungicide applications applied during planting in the starter fertilizer

Contacts: Darcy Telenko and Kaitlin Waibel, Agronomy

Soybean Yield Response to Fungicide Applications

Evaluate soybean response to fungicide applications at different growth stages

Contacts: Darcy Telenko and Kaitlin Waibel, Agronomy

Soybean Yield Response to Plant Date and Seeding Rate

Evaluate soybean seeding rate recommendations for Indiana growers in May and June.

Contact: Shaun Casteel, Agronomy

Soybean Yield Response to Plant Date and Fertilizer Applications

Evaluate soybean response to various fertilizer applications while planting in May and June.

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

Contacts: John Obermeyer & Laura Ingwell, Entomology

Corn Ear Worm Trapping

Monitor the presence of corn ear worm across Indiana

Contacts: John Obermeyer & Laura Ingwell, Entomology

Indiana Cooperative Ag 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

A network of traps across the country to monitor soybean aphids levels throughout the year.

Contact: Dave Voegtlin, National Soybean Research Center

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>

Contact: Beth Hall and Stephen Boyer, Agronomy and NEPAC

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 and Carl Emley, NEPAC