Department of Agronomy

**Soybean Varietal Glyphosate Tolerant Performance Trial**
Purpose: State variety performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Soybean Variety Conventional Trial**
Purpose: State variety performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Specialty Soybean Study**
Purpose: Evaluate Specialty variety performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Bayer LL Soybean Study**
Purpose: Evaluate Bayer variety performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Corn Population Study**
Purpose: Evaluate industry-provided seed hybrids with different planting populations.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Corn Hybrid Glyphosate Tolerant Performance Trial**
Purpose: State hybrid performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Corn Hybrid Conventional Performance Trial**
Purpose: State hybrid performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Specialty Corn N Study**
Purpose: Evaluate Specialty hybrid performance trials.
Contact: Phil DeVillez and Bill Foster, Agronomy

**Indigenous Soil Potassium Supply**
Fertilizer Potassium Use Efficiency
Potassium Budgets in Indiana Corn Production
Purpose: Evaluate the agronomic efficiency of currently recommended Potassium (K) fertilizer rates and evaluate theoretically improved soil potassium tests for ability to predict soil K supply.
Contact: Sylvie Brouder, Shaun Casteel, and James Camberato, Agronomy

Potassium Budgets in Indiana Soybean Production
Purpose: Evaluate the agronomic efficiency of currently recommended Potassium (K) fertilizer rates and evaluate theoretically improved soil potassium tests for ability to predict soil K supply.
Contact: Sylvie Brouder, Shaun Casteel, and James Camberato, Agronomy

Department of Agronomy (Continued)

Role of Starter Fertilizer and Yield of Continuous Corn
Contact: Bob Nielsen & Jim Camberato, Agronomy

Corn Responses to In-furrow applications of Biological & PGR “Growth Enhancers”
Purpose: Corn response to in furrow treatments in combination with normal starter fertilizer.
Contact: Bob Nielsen & Jim Camberato, Agronomy

Effects on Soybean Growth and Yield of Previous, Long-Term Variable N Rates to Corn
Purpose: Bulk seeding of soybeans in a soybean/corn rotation.
Contact: Bob Nielsen & Jim Camberato, Agronomy

Yield Component Response of Corn Hybrid to Sulfur Fertilizer – Mary Rice Farm
Purpose: Corn responses to in-furrow & Sidedress applications of Sulfur Fertilizer treatments. All plots eventually receiving same total amounts of nitrogen.
Contact: Bob Nielsen, Agronomy

Nitrogen Use Efficiency in Corn on Contrasting Soil Types (i.e. Muck)
Purpose: To evaluate nitrogen efficiency with corn production on different soils.
Contact: Jim Camberato, Agronomy

Phosphorous (P) Response of Soybeans on a Low P Soil
Purpose: To evaluate the response on low phosphorous soil on corn and soybean crops.
Contact: James Camberato, Agronomy

Industry Supported Irrigation Nitrogen Rate and Timing Study for Corn
Purpose: to evaluate corn performance as influenced by nitrogen rate, hybrid, and timing at the Rice Farm
Contact: Tony Vyn, Agronomy

Industry Soybean in Furrow Micronutrient
Purpose: to evaluate furrow-applied micronutrients for soybeans
Contact: Tony Vyn, Agronomy
Optimal Sidedress Nitrogen Rates and Methods for Corn
Purpose: Evaluate various sidedress N rates and methods for Corn
Contact: Tony Vyn, Agronomy

Department of Agronomy (Continued)

Soybean Seeding Rate Trial-PPAC
Purpose: Evaluate the performance of soybean seeding rates in large plots.
Contact: Shaun Casteel, Agronomy

John Deere ExactEmerge Planter Experiment-Rice Farm
Purpose: Evaluation soybean populations to various planter speeds.
Contact: Shaun Casteel, Agronomy

Sulfur Sources-Rice Farm
Purpose: Company interest in supplying Sulfur needs through dry fertilizer application early planting season. Products to be considered AMS, MESZ, tiger CR, and Gypsum.
Contact: Shaun Casteel, Agronomy

Undercover – Manganese-PPAC
Purpose: Can undercover applications correct deficiencies of non-mobile to nearly non-mobile plant nutrients like Sulfur and Manganese
Contact: Shaun Casteel, Agronomy

Undercover – Manganese-Rice Farm
Purpose: Can undercover applications correct deficiencies of non-mobile to nearly non-mobile plant nutrients like Sulfur and Manganese
Contact: Shaun Casteel, Agronomy

R5 Sulfur Rescue-Rice Farm
Purpose: Observations of increase yield with late season R5 rescue applications of KTS on soybeans.
Contact: Shaun Casteel, Agronomy

Sulfur Season-Rice Farm
Purpose: Observations of increase yield with AMS prior to emergence as well as the sequential foliar application at V4 and R2 on soybeans.
Contact: Shaun Casteel, Agronomy

Product Evaluations-PPAC
Purpose: Evaluate various products across multiple varieties
Contact: Shaun Casteel, Agronomy

Sulfur BIG (Field Scale S Season)
Purpose: Evaluation of Sulfur applications to soybeans at field scale levels based on fertilizer and combine widths
Contact: Shaun Casteel, Agronomy

**Soybean Pop-up Fertilizer-PPAC**
Purpose: Investigate response to starter and popup fertilizer in soybeans
Contact: Shaun Casteel, Agronomy

**Oleic Irrigated and non-irrigated Soybean – Seeding Rate x Plant Type- PPAC**
Soybean seeding rate recommendation refinement based on region or soil and to determine the underlying factors for the various soybean responses to plant populations.
Contact: Shaun Casteel, Agronomy

**Relay Soybeans-Edible and Soy- Sandy Soil-PPAC**
Purpose: Edible bean and soybean compared in a relay and double crop scenario in Northern Indiana.
Contact: Shaun Casteel, Agronomy

**Relay Soybeans-Edible and Soy- Loam Soil-PPAC**
Purpose: Edible bean and soybean compared in a relay and double crop scenario in Northern Indiana.
Contact: Shaun Casteel, Agronomy

**Purdue Automatic Weather Station (PAAWS)**
Purpose: Automated collection of weather data from this site sent to a computer at the Indiana State Climate Office, which can be observed at [http://climate.agry.purdue.edu](http://climate.agry.purdue.edu).
Contact: Rich Grant and Ken Scheeringa

**Soft Red Winter Wheat Yield Trial**
Purpose: This experiment is to generate yield, yield component, and disease resistance data for soft red winter wheat in cultivar recommendations.
Contact: Mohsen Mohammadi/Sintayehu Daba

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**Department of Entomology**

**Armyworm Trapping**
Purpose: To monitor the presence of armyworm
Contact: Larry Bledsoe, Entomology

**Black Cutworm Pheromone Trapping**
Purpose: To monitor the presence of black cutworm.
Contact: John Obermeyer, Entomology

**Western Bean Cutworm Trapping**
Purpose: To monitor the presence of western bean cutworm.
Contact: John Obermeyer, Entomology

**Corn Ear Worm Trapping**
Purpose: To monitor the presence of corn earworm.
Contact: John Obermeyer, Entomology
**Corn Trap Crop**
Purpose: A trap crop for corn rootworm eggs in 2014 to provide experimental area in 2015.
Contact: Christian Krupke, Entomology

**Efficacy of Commercial and Experimental Insecticides Used to Control Corn Insects**
Purpose: Evaluate new products and generate data for extension recommendations.
Contact: Christian Krupke, Entomology

**Indiana Cooperative Agricultural Pest Survey (CAPS) for Invasive Pests**
Purpose: Site for trap grid to monitor for invasive insect species.
Contact: Larry Bledsoe, Entomology

**Specialty Crops Research Initiative (SCRI)**
Purpose: Impact of neonicotinoid insecticides on honeybee pollinators of melons.
Contact: Laura Ingwell, Christian Krupke, and Larry Bledsoe

**Department of Botany & Plant Pathology**

**Uniform Soybean Test – Northern Region**
Purpose: Evaluating USDA Uniform Soybean Test Strains grouped by maturity for comparison and seed increases
Contact: Gary Knowling

**(3) Company Soybean Seed Treatment Trial - Rhizoctonia**
Purpose: Evaluate efficacy of seed treatments on Rhizoctonia
Contact: Kiersten Wise, Botany & Plant Pathology

**(2) Company Soybean Seed Treatment Trial - Phytophora**
Purpose: Evaluate efficacy of seed treatments on Pythium
Contact: Kiersten Wise, Botany & Plant Pathology

**Company Soybean Trials – Sudden Death Syndrome**
Purpose: Evaluate efficacy of seed treatments of seed treatments and/applications on Sudden Death Syndrome
Contact: Kiersten Wise, Botany & Plant Pathology

**(4) Sudden Death Syndrome (SDS) Residue Trial**
Purpose: Determine how seed treatments will affect SDS development with different levels of corn residue
Contact: Kiersten Wise, Botany & Plant Pathology

**W(15) Weed Science Confidential Company Products for Evaluation**
Purpose: Determine the effectiveness of company products
Contact: Julie Young, Botany & Plant Pathology

**Department of Horticulture & Landscape Architecture**

**Cucurbit and Basil Downy Mildew Sentinel Plot**
Purpose: Monitor cucurbits and basil for downy mildew as part of a multi-state project.
Contact: Elizabeth Maynard, Horticulture and Dan Egel, Botany & Plant Pathology
High Tunnel Vegetable Production – Organic
Purpose: Evaluate cultural practices with a High Tunnel growing fresh tomatoes for yield and fruit quality.
Contact: Elizabeth Maynard, Horticulture

High Tunnel Vegetable Production – Conventional
Purpose: Evaluate cultural practices with a High Tunnel growing fresh tomatoes for yield and fruit quality.
Contact: Elizabeth Maynard, Horticulture

Pumpkin Cultural Practices Demonstration
Purpose: This demonstration will illustrate effects of various cultural practices on pumpkins yield, fruit characteristics, and susceptibility of powdery mildew.
Contact: Elizabeth Maynard, Horticulture

Pumpkin Cultivar Evaluation
Purpose: This trial will evaluate pumpkin cultivars and pre-commercial lines for yield, fruit characteristics, and susceptibility of powdery mildew performance.
Contact: Elizabeth Maynard, Horticulture

Supersweet (sh2) Sweet Corn Cultivar Evaluation
Purpose: This trial will evaluate cultivars and pre-commercial supersweet (sh2) sweet corn varieties for yield, quality and performance.
Contact: Elizabeth Maynard, Horticulture

Sugar-enhanced and Synergistic sweet corn cultural practices demonstration
Purpose: Sweet corn varieties evaluated for yield, plant growth, and ear quality to determine suitability for fresh market production.
Contact: Elizabeth Maynard, Horticulture

Sugar-enhanced and Synergistic sweet corn cultural practices demonstration
Purpose: This trial will evaluate cultivars, pre-commercial sugar enhanced, and synergistic sweet corn varieties for yield, quality and performance.
Contact: Elizabeth Maynard, Horticulture

Department of Forestry & Natural Resources

Assessing Poplar Species Suitability and Productivity in Indiana
Purpose: Testing of Poplar trees for biofuel production from cellulosic feedstock.
Contact: Rick Meilan, Associate Professor, Department of Forestry & Natural Resources

2005 Black Cherry Coppice Trial
Purpose: To test the effect of coppicing cherry trees after four years of growth on timber form and quality.
Contact: Jim McKenna, Brian Beheler, and Don Carlson, Forestry & Natural Resources
2009 Black Cherry progeny test
Purpose: One of a series of progeny tests of various cherry families from a grafted seed orchard.
Contact: Jim McKenna, Brian Beheler, and Don Carlson, USDA-ARS and Department of Forestry & Natural Resources

2009 Containerized Stock Test
Purpose: Compare Red Oak and Walnut grown in two different sized containers vs. bare rootstock.
Contact: Jim McKenna, Brian Beheler, and Don Carlson, USDA-ARS and Department of Forestry & Natural Resources

2011 MOG Butternut Study
Purpose: Compare hybrid and pure Butternut in relation to Black Walnut and Red Oak.
Contact: Jim McKenna, Brian Beheler, and Don Carlson, Forestry & Natural Resources

2011 Advanced Butternut Seed Orchard
Purpose: A grafted seed orchard with new selections that have proven resistant to Butternut Canker fungus in screening tests at Purdue University.
Contact: Jim McKenna, Brian Beheler, and Don Carlson, USDA-ARS and Forestry & Natural Resources

Understanding Habitat Needs of Northern Long Eared Bats in Northern Indiana Landscapes
Purpose: Predictive maps of landscape level habitat needs of Northern Long Eared Bats in Northern Indiana developed based upon historic records and observations collected during fieldwork completed during the summers of 2017 and 2018.
Contact: Dr. Patrick Zollner, Cheyenne Gerdes

Collaborative Forestry Research Study
Purpose: Study the Competition, coexistence and community structure: Identifying the mechanisms that structure Indiana forests.
Contact: Dr. Brady Hardiman

Natural Resources Demonstration Area Initiation
Purpose: To establish a natural resources demonstration area at Pinney-PAC.
Contact: Don Carlson, Forestry & Natural Resources

United States Department of Agriculture-ARS

USDA-ARS Northern Regional Soybean Trials
Contact: Gary Knowling, USDA-ARS
Other Cooperating Units or Areas

**Soybean Aphid Suction Trapping**
Purpose: To monitor the presence of soybean aphid.
Contact: Dave Voegtlin, National Soybean Research Center

**National Weather Service Manual Read Station**
Purpose: To provide daily weather information to the National Weather Service.
Contact: Pinney-PAC Staff

**Hops Demonstration**
Purpose: To high light 2 growing trellis systems with 4 popular varieties.
Contact: Jon Leuck