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

**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 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 and 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 and Ronald Navarre, Agronomy
Department of Agronomy (Continued)

**Corn Yield Response to Fertilizer Nitrogen (N) Rates**
Purpose: Evaluation of corn yield response to N rates and side dress application times.
Contact: Bob Nielsen & Jim Camberato, Agronomy

**Comparison of In-furrow and 2”x2” Starter Fertilizers on the Growth, Development, and Yield of Continuous Corn**
Purpose: Trial in 2014, dependent on successfully retrofitting the Pinney-PAC planter with in-furrow starter fertilizer capability.
Contact: Bob Nielsen & Jim Camberato, Agronomy

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

**Yield Component Response of Two Hybrids to Plant Population – Mary Rice Farm**
Purpose: Comparing yield component responses to seeding rates for two hybrids identified by a supporting seed company as responding differently to seeding rates.
Contact: Bob Nielsen, Agronomy

**Winter Wheat Improvement Trial**
Purpose: To test winter wheat cultivars for yield.
Contact: Andrew Linville, Agronomy

**Nitrogen Response in Corn on Muck Soils**
Purpose: To determine nitrogen response on muck soils compared to earlier recommendations.
Contact: Jim Camberato, Agronomy

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

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

**Evaluation of Instinct® and Dicyandiamide (DCD) Inhibitors**
Purpose: To evaluate corn performance in response to the use of nitrogen stabilizers.
Contact: James Camberato, Agronomy

**Soybean Micronutrient Study**
Purpose: To evaluate soybean performance as influenced by foliar applied micronutrients.
Contact: Tony Vyn, Agronomy

**Corn Micronutrient Trial**
Purpose: To evaluate corn performance as influenced by foliar applied micronutrients.
Contact: Tony Vyn, Agronomy
Industry-supported Corn Nitrogen Drought Tolerance
Purpose: To evaluate corn performance as influenced by hybrid, nitrogen rate, and population on a droughty soil.
Contact: Tony Vyn, Agronomy

Industry-supported Calibration Study for Corn
Purpose: To evaluate corn performance as influenced by nitrogen rate, hybrid, and population
Contact: Tony Vyn, Agronomy

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

Soybean Date of Planting Trial
Purpose: Planting dates are important for both soybean and corn crops – this study is to determine which crop should be planted to maximize yield of the respective crop as relates to the calendar.
Contact: Shaun Casteel, Agronomy

Corn Date of Planting Trial
Purpose: Planting dates are important for both soybean and corn crops – this study is to determine which crop should be planted to maximize yield of the respective crop as relates to the calendar.
Contact: Shaun Casteel, Agronomy

Soybean Seed Rate and Inoculant Small Plot
Purpose: Evaluation of soybeans with a commercial inoculant in a corn-soybean rotation.
Contact: Shaun Casteel, Agronomy

SOYA – Max Yields
Purpose: This is a multi-state project aimed at increasing soybean yields by identifying management scenarios that consistently increase soybean yields.
Contact: Shaun Casteel, Agronomy

Nitrogen x Source-Rate with Soybeans
Purpose: To investigate the opportunity of applying much lower amounts of N and still improving soybean yield
Contact: Shaun Casteel, Agronomy

Soybean Seed Treatment Evaluations
Purpose: To evaluate new commercial seed treatments with soybeans planted in late April and early May to increase yield potential.
Contact: Shaun Casteel, Agronomy

SOYA – Population and Management
Purpose: This is a multi-state project aimed at increasing soybean yields by identifying management scenarios that consistently increase soybean yields.
Contact: Shaun Casteel, Agronomy
Department of Agronomy (Continued)

**SOYA – Trait Management**
Purpose: This is a multi-state project aimed at increasing soybean yields by identifying management scenarios that consistently increase soybean yields.
Contact: Shaun Casteel, Agronomy

**Stoller Stress Relief in Soybeans**
Purpose: Evaluation of new stress reliever products for yield enhancement or protection in soybeans.
Contact: Shaun Casteel, Agronomy

**Novel Nitrogen Approach Study**
Purpose: Investigate the correlation of leaf color with yield response to nitrogen and leaf senescence.
Contact: Shaun Casteel, Agronomy

**Climatology – Automated Weather Station**
Purpose: To collect information from automated weather station equipment at Pinney-PAC.
Contact: Ken Scheeringa, Agronomy

**Evaluation of Growth, Flowering Time and Winter Hardiness in Perennial Ryegrass Populations**
Purpose: Assess growth, flowering time and winter recovery of perennial ryegrass populations and identify mechanisms controlling these traits.
Contact: Yiwei Jang, Agronomy

Department of Entomology

**Isolated Corn Refuge Trial**
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 ear worm.
Contact: John Obermeyer, Entomology

**Surveying Indiana Soybean for Soybean Vein Necrosis Associated Virus (SVNaV) and Evaluating New Management Practices**
Purpose: Propose to learn more about SVNaV epidemiology in Indiana to quantify the level of the threat and also evaluate new management practices for Indiana soybean growers.
Contact: Christian Krupke and Punya Nachappa, Entomology
Department of Entomology (Continued)

**Corn Trap Crop**
Purpose: A trap crop for corn rootworm eggs in 2013 to provide experimental area in 2014.
Contact: Christian Krupke, Entomology

**Evaluation of Various rates of Poncho Insecticide on Corn Rootworm**
Purpose: Evaluate new products and generate data for Extension recommendations.
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

Department of Botany & Plant Pathology

**The Effect of Carbon Amendments on Prairie Restoration**
Purpose: How carbon amendments impact prairie community development, prairie site invasive plants, and soil community diversity and structure.
Contact: Dr. Gibson & Dustin Houghton, Botany & Plant Pathology

**Soybean Sudden Death Syndrome (SDS) Pre-Emerge Fungicide Trial**
Purpose: To determine the efficacy of labeled fungicides when applied prior to emergence for control of SDS in soybeans.
Contact: Kiersten Wise, Botany & Plant Pathology

**Soybean Sudden Death Syndrome (SDS) Product Evaluation Trial**
Purpose: To determine the efficacy of products on disease control and yield in soybeans.
Contact: Kiersten Wise, Botany & Plant Pathology

**Soybean Sudden Death Syndrome (SDS) Pre-Emerge Herbicide Trial**
Purpose: To determine the efficacy of products on disease control and yield in soybeans.
Contact: Kiersten Wise, Botany & Plant Pathology

**Soybean Sudden Death Syndrome (SDS) Planting Date Trial – 4/15/2014**
Purpose: To determine the impact of planting date, varietal selection, and seed treatment on SDS severity.
Contact: Kiersten Wise, Botany & Plant Pathology

**Soybean Sudden Death Syndrome (SDS) Planting Date Trial – 4/30/2014**
Purpose: To determine the impact of planting date, varietal selection, and seed treatment on SDS severity.
Contact: Kiersten Wise, Botany & Plant Pathology
Soybean Sudden Death Syndrome (SDS) Planting Date Trial – 5/15/2014
Purpose: To determine the impact of planting date, varietal selection, and seed treatment on SDS severity.
Contact: Kiersten Wise, Botany & Plant Pathology

Soybean Sudden Death Syndrome (SDS) Planting Date Trial – 5/30/2014
Purpose: To determine the impact of planting date, varietal selection, and seed treatment on SDS severity.
Contact: Kiersten Wise, Botany & Plant Pathology

Soybean Sudden Death Syndrome (SDS) Planting Date Trial – 6/15/2014
Purpose: To determine the impact of planting date, varietal selection, and seed treatment on SDS severity.
Contact: Kiersten Wise, Botany & Plant Pathology

Understanding Soybean Cyst Nematode/Sudden Death Syndrome Interaction in Indiana
Purpose: Compare effects of SDS-resistant varieties under low SCN pressure.
Contact: Kiersten Wise, Botany & Plant Pathology

Efficacy of Fungicides on Gibberella Ear Rot in Corn
Purpose: Demonstration plot for annual Pinney-PAC field day event.
Contact: Kiersten Wise, Botany & Plant Pathology

United Soybean Board Charcoal Rot Study
Purpose: Assess the impact of Charcoal Rot on yield and determine epidemiology with soybeans in northern U.S.
Contact: Kiersten Wise, Botany & Plant Pathology

United Soybean Board Charcoal Rot Study
Purpose: Evaluate resistance to charcoal on high yielding commercial varieties.
Contact: Kiersten Wise, Botany & Plant Pathology

Surveying Indiana Soybean for Soybean Vein Necrosis Associated Virus (SVNaV) and Evaluating New Management Practices
Purpose: Propose to learn more about SVNaV epidemiology in Indiana to quantify the level of the threat and also evaluate new management practices for Indiana soybean growers
Contact: Punya Nachappa, Biology Department Indiana-Purdue University, Fort Wayne, IN

Weed Science Confidential Evaluation Trials
Purpose: Seven weed science evaluation trials undertaken on sandy loam soil.
Contact: Bryan & Julie Young, Botany & Plant Pathology
Supersweet (sh2) Sweet Corn Variety Evaluation  
Purpose: Sweet corn varieties will be evaluated for yield, plant characteristics, and ear quality to determine suitability for fresh market production.  
Contact: Elizabeth Maynard, Horticulture

Sugar-enhanced and Synergistic sweet corn variety evaluation  
Purpose: Sweet corn varieties will be evaluated for yield, plant characteristics, and ear quality to determine suitability for fresh market production.  
Contact: Elizabeth Maynard, Horticulture

Lettuce Variety Evaluation - Organic  
Purpose: Lettuce varieties will be screened for yield and quality to determine suitability for fresh market production.  
Contact: Elizabeth Maynard, Horticulture

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 support systems with a High Tunnel growing fresh tomatoes.  
Contact: Elizabeth Maynard, Horticulture

High Tunnel Vegetable Production – Conventional  
Purpose: Evaluate support systems with a High Tunnel growing fresh tomatoes.  
Contact: Elizabeth Maynard, Horticulture

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
Department of Forestry & Natural Resources (Continued)

2009 Containerized Stock Test
Purpose: Compare Red Oak and Walnut grown in two different sized containers vs. bare root stock.
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

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: David Schlueter, 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

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.
Contact: Rich Grant and Ken Scheeringa
Other Cooperating Units or Areas (Continued)

**Morgan Township FFA**
Purpose: Work with our local FFA High School kids on greenhouse operation, transplanting, and field crop maintenance.
Contact: Angie Sutherland, Morgan Township FFA teacher

**Industry-led Soybean Variety Trial**
Purpose: To determine yield possibilities for marketing strategies.