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

Corn Hybrid Performance
Purpose: Test yield performance of corn hybrids sold in Indiana.
Contact: Phil DeVillez, Agronomy

Soybean Variety Performance
Purpose: Test yield performance of soybean varieties sold in Indiana.
Contact: Phil DeVillez, Agronomy

Soybean Seeding Rate Trial
Purpose: Identify agronomically optimum and economically optimum seeding rates for soybean production in Indiana.
Contact: Shaun Casteel, Agronomy

Soybean Date of Planting Study
Purpose: Identify agronomically optimum and economically optimum planting dates for soybean production in Indiana.
Contact: Shaun Casteel, Agronomy

Corn Date of Planting Study
Purpose: Identify agronomically optimum and economically optimum planting dates for corn production in Indiana.
Contact: Bob Nielsen, Agronomy

No-Till vs. Strip-Till Management of Soybean Row Spacing
Purpose: Identify agronomically optimum and economically optimum row spacing for soybean production under no-till and strip-till management in east-central Indiana.
Contact: Shaun Casteel, Agronomy

Utilization of Swine Manure for Corn and Soybean Production in Indiana
Purpose: Determine corn and soybean response to different rates of swine manure.
Contact: Shaun Casteel, Jim Camberato and Brad Joern, Agronomy

Evaluation of Swine Manure for Double Crop Soybean Production in Indiana
Purpose: Determine double crop soybean response to different rates of swine manure
Contact: Shaun Casteel and Jim Camberato, Agronomy
Evaluation of Nitrogen Utilization from Swine Manure in Corn Production
Purpose: Evaluate Nitrogen utilization in swine manure at different times of application.
Contact: Brad Joern, Agronomy

Nitrogen Response of Winter Wheat
Purpose: Determine optimum Nitrogen rates for wheat production in Indiana.
Contact: Shaun Casteel and Jim Camberato, Agronomy

Soybean Foliar Fungicide Application Trial
Purpose: Determine the effect of foliar fungicide and insecticide applications on disease control and yield of soybean across Indiana.
Contact: Kiersten Wise, Botany & Plant Pathology

Foliar Fungicide Winter Wheat Trial
Purpose: Determine the efficacy of fungicide application timing on disease control and yield of wheat.
Contact: Kiersten Wise, Botany & Plant Pathology

Foliar Corn Fungicide Application Trial
Purpose: Determine the effect of a foliar fungicide application timing on disease control and yield of corn.
Contact: Kiersten Wise, Botany & Plant Pathology

Field Drainage Water Management
Purpose: Determine effects of drainage water management on crop yields, nitrate loads in tile drains, water table, soil quality, and crop yields.
Contacts: Jane Frankenberger, Agricultural & Biological Engineering, Eileen Kladivko and Laura Bowling, Agronomy

Corn Seeding Rate Trial
Purpose: Determine agronomical and economical optimum seeding rates for corn production in Indiana.
Contact: Bob Nielsen, Agronomy

Nitrogen Response of Corn and Soybeans
Purpose: Determine optimum Nitrogen rate for corn.
Contacts: Bob Nielsen & Jim Camberato, Agronomy

Controlled Drainage for Improvement of Water Quality
Purpose: Quantify environmental benefits of managed drainage and use of soil amendments under standard crop production.
Contact: Janae Bos, Biological Science Technician and Javier Gonzalez, Soil Scientist with USDA-ARS National Soil Erosion Research Lab

Soybean Productivity, Soil Quality and Climate Change
Purpose: Develop management techniques using cover crops and gypsum to increase soybean yield while maintaining soil health.
Contact: Janae Bos, Biological Science Technician and Javier Gonzalez, Soil Scientist with USDA-ARS National Soil Erosion Research Lab

Long Term Gypsum Effects on Yield and Soil and Water Quality
Purpose: Determine the effects of gypsum on grain yield and soil and water quality
Contact: Janae Bos, Biological Science Technician and Javier Gonzalez, Soil Scientist with USDA-ARS National Soil Erosion Research Lab

Surveying Indiana Soybean for Soybean Vein Necrosis Associated Virus and Evaluating New Management Practices
Purpose: Examine SVNaV epidemiology and quantify the threat evaluate management practices.
Contact: Punya Nachappa, Biology Indiana Purdue Ft Wayne and Christian Krupke, Entomology Purdue
Efficacy Evaluation of Various Rates of Poncho on Corn Rootworm
Purpose: Determine efficacy of Poncho insecticide on corn rootworm.
Contact: Christian Krupke, Entomology

Soybean Aphid Suction Trap Network
Purpose: Monitor flight of soybean aphids.
Contact: Christian Krupke, Entomology

Insect Pest Monitoring Network
Purpose: Monitor insect pest levels of corn, soybeans and wheat.
Contact: John Obermeyer, Entomology

Cooperative Ag Pest Survey
Purpose: DPAC is used as a monitoring site for a state-wide trap grid for the early detection of exotic, invasive insect pests of soybean and vegetables.
Contact: Larry Bledsoe, Entomology

Corn and Soybean Herbicide Demonstration Plots
Purpose: Evaluate different herbicide treatments in corn and soybeans
Contact: Jeff Boyer; Davis Purdue Agricultural Center and Bill Johnson, Botany & Plant Pathology

USDA People's Garden Project
Purpose: Grow fresh sweet corn for those in need.
Contact: Toby Hollinger, County Executive Director, Randolph County USDA-Farm Service Agency

Native Grass, Wildflower and Constructed Wetland Demonstration Project
Purpose: Demonstrate the growth and value of native grasses, wildflowers and constructed wetlands.
Contact: Rob Chapman, Forestry & Natural Resources

Mixed Hardwood Demonstration Tree Planting
Purpose: Demonstrate mixed hardwoods trees planted in Indiana and the effects deer have on growth and survival of the planted and voluntary trees.
Contact: Don Carlson, Forestry & Natural Resources

Wildlife Shrub Demonstration Plantings
Purpose: Demonstrate several commonly planted wildlife species and the effects deer have on growth and survival.
Contact: Don Carlson, Forestry & Natural Resources

Forest Regeneration Demonstration Area
Purpose: Demonstrate how a forest regenerates following the removal of the woody material. Supplemental tree planting of both standard and select nursery stock occurred on the sites along with fencing of half of the site to exclude impacts of deer on regeneration.
Contact: Don Carlson, Forestry & Natural Resources

Long Term Continuous Forest Inventory
Purpose: Permanent forest inventory plots have been established and maintained on most of the woodlands at Davis-PAC to monitor changes in species abundance, growth, survival, and timber quality over time.
Contact: Mike Jenkins and Don Carlson, Forestry & Natural Resources

80+ years of Central Hardwood Forest Dynamics
Mike Jenkins and Robert Morrissey, Hardwood Tree Improvement and Regeneration Center, Department of Forestry & Natural Resources