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 K fertilizer rates; evaluate theoretically improved soil K tests for the ability to predict soil K supply.
   Contact: Sylvie Brouder; Agronomy

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

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

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

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

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

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

Effect of Gypsum on Crop Yield and Soil Properties
Purpose: Evaluate the effect of gypsum on crop yields and soil properties.
   Contact: Jim Camberato; Agronomy

Cover Crop Management with Roller Crimper in Soybean Production System
Purpose: Compare weed management, soybean yield and soil temperature and moisture in cereal rye plots.
   Contact: Michael O'Donnell; Purdue Extension-Delaware County

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 (SVNaV) Associated Virus and Evaluating New Management Practices
Purpose: Learn more about SVNaV epidemiology and quantify the threat and evaluate management practices.
   Contact: Punya Nachappa, Biology at Indiana-Purdue Fort Wayne and Christian Krupke, Purdue 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-PAC and Bill Johnson; Botany and Plant Pathology

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

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 and 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 and 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 and 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 and 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 and Natural Resources

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