Indigenous Soil 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 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 Spacings
Purpose: Identify agronomically optimum and economically optimum row spacings 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 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 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: Brenda Hofmann, Biological Science Technician 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, USDA-ARS

**Cover Crop Trial for East-Central Indiana**  
Purpose: Measure cover crop establishment and growth of cover crops grown singly or in two-way mixes after wheat.  
Contact: Eileen Kladivko, Agronomy
**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: Davis-PAC 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

**USDA People’s Garden Project**  
Purpose: Grow fresh sweet corn for those in need.  
Contact: Toby Hollinger, County Executive Director, Randolph County 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 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 & 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**  
Contact: Mike Jenkins and Robert Morrissey, Hardwood Tree Improvement and Regeneration Center - Department of Forestry & Natural Resources