Double Soy – Seed Rate x MG
Purpose: Soybean yield gains have been less than desired across Indiana & the US. This is a multi-state project aimed at increasing soybean yields by identifying management scenarios that consistently increase soybean yields in double crop systems, especially as it relates to seed rates.
Contacts: Shaun Casteel & Curtis Bracket

Double Soy – Seed Rate x Row or MG Study
Purpose: to identify the stand & yield differences of double crop soybean based on the seeding rate of two varieties in 7 & 14-inch wheat stubble.
Contacts: Shaun Casteel & Curtis Bracket

Double Soy – Max Management Study
Purpose: This is a multi-state project aimed at increasing soybean yields by identifying management scenarios that consistently increase soybean yields in double crop systems
Contacts: Shaun Casteel & Curtis Bracket

Double Soy – Crop Protection
Purpose: Multi-state project aimed at increasing soybean yields by identifying management scenarios that consistently increase soybean yields in double crop systems.
Contacts: Shaun Casteel & Curtis Bracket

Purdue Crop Performance Trial
Purpose: RR soybean trials.
Contacts: Phil DeVillez & Bill Foster

Purdue Crop Performance Trial
Purpose: Conventional/LL soybean trial
Contacts: Phil DeVillez & Bill Foster

Purdue Crop Performance Trials
Purpose: RR corn trial
Contacts: Phil DeVillez & Bill Foster
Department of Agronomy (Continued)

**Purdue Crop Performance Trials**
Purpose: Bayer LL trial  
Contacts: Phil DeVillez & Bill Foster

**CASTNet Dry Deposition Measurements**
Purpose: The measurement of gaseous and collection of gaseous and particulate pollutants in combination with meteorological conditions are made at this site in order to 1) characterize geographic patterns and temporal trends in chemical atmospheric dry deposition 2) support assessments of atmospherically – deposited nutrients  
Contact: Rich Grant

**Purdue Automated Agricultural Weather Station (PAAWS)**
Purpose: Automated collection of weather data from this site is sent to the Indiana State Climate Office at Purdue University - data can be observed at: [http://climate.agry.purdue.edu](http://climate.agry.purdue.edu)  
Contacts: Rich Grant & Ken Scheeringa

**National Atmospheric Deposition Program/Mercury Deposition Network**
Purpose: The collection of rain water from this site in order to: 1) characterize geographic patterns and temporal trends in wet chemical mercury deposition and 2) Support assessments of atmospherically-deposited mercury on the productivity of biological accumulators such as fish  
Contact: Rich Grant

**National Atmospheric Deposition Program/National Trends Network**
Purpose: The collection of rain water from this site is made in order to: 1) Characterize geographic patterns and temporal trends in chemicals as well as quantity and conductivity of atmospheric wet deposition and 2) support assessments of atmospherically – deposited nutrients influencing crop productivity  
Contact: Rich Grant

**U.S. Geological Survey**
Purpose: Monitoring of atmospheric mercury dry deposition in litter fall  
Contact: Martin Risch

**Ammonia Monitoring Network**
Purpose: The measurement of gaseous ammonia from the site is made in order to 1) asses the long-term trends in ambient NH3 concentrations and deposition, 2) better estimate total nitrogen inputs to ecosystems and 3) evaluate possible long-term climate effects due to the spatial and temporal trends of ammonia gas in the atmosphere  
Contact: Rich Grant

**National Winter Canola Variety Trial**
Purpose: Evaluate canola varieties to identify best adapted varieties for southwest Indiana.  
Contacts: Charles Mansfield & Mike Stamm
Department of Agronomy (Continued)

**Canola Early Germplasm Screen**  
Purpose: Evaluate early maturing canola entries for winter hardiness, stand ability, disease tolerance, and yield potential  
   Contacts: Charles Mansfield & Brian Caldbeck

**Clearfield Canola Herbicide Screen**  
Purpose: Compare no herbicide with the 2X rate of Beyond herbicide on the growth and early development of Clearfield canola lines as compared to non-tolerant control lines of canola for purposes of verifying herbicide tolerance in the Clearfield lines.  
   Contacts: Charles Mansfield & Brian Caldbeck

**Canola Miscellaneous Product Evaluation**  
Purpose: Evaluate the effect of seed treatments & growth regulators on winter hardiness, growth & development, reproductive growth, & grain yield in Canola.  
   Contacts: Chuck Mansfield & Brian Caldbeck

**Canola Desiccant Timing Study**  
Purpose: Evaluate the effect of 6 different desiccant application timings on canola dry-down, grain shattering, and grain quality and yield.  
   Contacts: Chuck Mansfield & Brian Caldbeck

**Southwestern Indiana Regional Wheat Variety Test**  
Purpose: Evaluate soft, red winter wheat varieties to provide growers & breeders performance information on the entries.  
   Contacts: Chuck Mansfield, Jon Neufelder & Nick Held

**Soft Red Winter Wheat Yield Trial**  
Purpose: To generate yield, yield component, & disease resistance data for soft red winter wheat that can be used in cultivar recommendation.  
   Contact: Mohsen Mohammadi

**Effect of Starter Zinc and Sulphur Fertilizer on yield of corn grown on a sandy soil**  
Purpose: Zinc and/or Sulphur deficiencies are possible on sandy low organic matter soils especially when pH is high. What is the potential yield increase of corn and how frequently will a yield increase occur.  
   Contact: Jim Camberato, Bob Nielsen & Cody Hornaday

**Corn Response to Zinc & Boron**  
Purpose: Determine if at planting applications of zinc & boron have beneficial effects on grain yield.  
   Contact: Jim Camberato & Bob Nielsen

**Downy Mildew Sentinel Plot**  
Purpose: To monitor the possible on-set of Downy Mildew in Indiana.  
   Contact: Dan Egel.
**Department of Botany & Plant Pathology (Continued)**

**IWA Anthracnose Plot**  
Purpose: comparison of the timings of systemic fungicide applications effective against anthracnose.  
Contact: Dan Egel

**Holganix Watermelon Plot**  
Purpose: Effects of treatment at different times/rates on hybrid diploid watermelon.  
Contact: Dan Egel

**Fusarium Microplots**  
Purpose: Fungicide comparison.  
Contact: Dan Egel

**Fusarium Wilt Drench**  
Purpose: Fungicide comparison.  
Contact: Dan Egel

**OREI Organic Tomato Plot**  
Purpose: Practical approach to foliar pathogen control in organic tomato production through participatory breeding and integrated pest management  
Contact: Dan Egel

**Sipcam Plots**  
Purpose: Fungicide comparison.  
Contact: Dan Egel

**Solarization in High Tunnel**  
Purpose: Experiment that examines solarization of the fusarium crown rot pathogen in high tunnel 2.  
Contact: Dan Egel

**AgriPhage Tomato Plot**  
Purpose: Field experiments to compare the alternative bacterial spot management treatments with standard copper treatments  
Contact: Dan Egel

**Risk-based Management Trial in Wheat**  
Purpose: Evaluation of foliar fungicides in wheat.  
Contacts: Kiersten Wise & Jeffrey Ravellette

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**Department of Entomology**

**Effect of FarMore Treatments on Insects, Disease, & Yield in Muskmelons**  
Purpose: Study will look at the effect of FarMore 300 and FarMore 400 treated seeds on insects, diseases, & yield in muskmelons.  
Contact: Rick Foster
**Insect Best Management Practices on Watermelon**
Purpose: Study will investigate how to best manage insects on watermelon with minimal impacts on pollinators.
   Contact: Rick Foster

**Corn Earworm Pheromone Trapping**
Purpose: To monitor the presence of corn earworms moths.
   Contact: Rick Foster, Entomology

**Indiana Cooperative Agricultural Pest Survey (CAPS) for Exotic Insect Pests of Soybean & Corn**
Purpose: Establish traps sites and sample areas needed to monitor for exotic insect species.
   Contact: Larry Bledsoe

**Armyworm Pheromone Trapping**
Purpose: To monitor the presence of armyworm moths.
   Contact: John Obermeyer, Entomology

**Impact of Neonicotinoid Insecticide on Honey Bee Pollinators of Melons**
Purpose: Effect within & surrounding field impacts of neonicotinoid insecticides on honeybees.
   Contact: Laura Ingwell, Christian Krupke, Ian Kaplan or Larry Bledsoe Entomology

**Purdue Extension**

**Southwest Indiana Crop Diagnostic Training Clinic**
Purpose: To demonstrate and teach timely agronomic information to crop consultants and growers.
   Contact: Valerie Clingerman, Bob Nielsen & Chuck Mansfield

**Southwest Indiana Crop Diagnostic Training Clinic**
Purpose: To demonstrate and teach crop consultants and growers about corn issues including: incorrect planting depth, down pressure, row cleaner settings, cold weather effects, and incorrect Nitrogen fertilizer application.
   Contact: Valerie Clingerman & Bob Nielsen

**Southwest Indiana Crop Diagnostic Training Clinic**
Purpose: To demonstrate and teach crop consultants and growers about soybean planting date and maturity groups
   Contact: Valerie Clingerman & Shaun Casteel

**Day on the Farm for 3rd Graders**
Purpose: To allow Knox County 3rd graders an opportunity to plant a watermelon and visit a farm.
   Contact: Valerie Clingerman
Purdue Extension (Continued)

**Pumpkin Days for 1st Graders**  
Purpose: To allow Knox County 1st graders an opportunity to see a pumpkin field and pick their own pumpkins  
Contact: Valerie Clingerman

**Identification of Food Safety Best Practice for Indiana Cantaloupe Production**  
Purpose: Best practice for use of biological amendments of animal origin in cantaloupe production.  
Contact: Scott Monroe

**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

**Testing Organic Herbicides**  
Purpose: Testing various enzymes, including some present in the gut of termites, for their ability to kill woody plants after injection.  
Contact: Rick Meilan

**Department of Horticulture & Landscape Architecture**

**Seedless Watermelon Variety Trial**  
Purpose: Evaluate yield and fruit quality of seedless watermelon varieties.  
Contact: Wenjing Guan

**Valent Herbicide Evaluation on Watermelon**  
Purpose: Evaluate the effects of Chateau & Fierce on weed control & potential crop injury in seedless watermelons.  
Contact: Wenjing Guan

**Personal Size Watermelon Variety Trial**  
Purpose: Evaluate yield and fruit quality of personal size watermelon varieties.  
Contact: Wenjing Guan

**Test Holganix & LandSpring Products on Tomatoes**  
Purpose: Evaluate Holganix & LandSpring products on plant growth and yield of processing tomatoes.  
Contact: Wenjing Guan

**Grafting on Early-Season Production of High Tunnel Cucumbers**  
Purpose: Evaluate effects grafting with different rootstocks on yield, quality, plant growth of seedless cucumbers.  
Contact: Wenjing Guan
Grafted Watermelon Fertility Trial
Purpose: Evaluate performance of grafted vs. non-grafted watermelon grown under different management systems.
   Contact: Wenjing Guan

Seminis Watermelon Spacing Trial
Purpose: Evaluate Effects of Three Plant Spacings on Yield & Fruit Size of 3 Seminis Varieties.
   Contact: Wenjing Guan

Cantaloupe Variety Trial
Evaluate yield and fruit quality of cantaloupe varieties.
   Contact: Wenjing Guan

LandSpring Evaluation – Peppers
Purpose: Evaluate effects of LandSpring applied at transplant to plant growth and yield of peppers.
   Contact: Wenjing Guan

LandSpring Evaluation – Seedless Watermelon
Purpose: Evaluate effects of LandSpring applied at transplant to plant growth and yield of cantaloupe.
   Contact: Wenjing Guan

LandSpring Evaluation – Cantaloupes
Purpose: Evaluate effects of LandSpring applied at transplant to plant growth and yield of seedless watermelon.
   Contact: Wenjing Guan

Fertilizer Bio-Stimulate Product Evaluation
Purpose: Evaluate effects of MycoApply, Holganix, Sustane and LSS on yield and sugar content of seedless watermelon.
   Contact: Wenjing Guan

Low Tunnel Demonstration
Purpose: Evaluate tomato, pepper, cucumber, and squash with and without low tunnels.
   Contact: Wenjing Guan

Leaf Mold Effects on Yield & Fruit Quality of Grafted and Non-grafted Tomatoes
Purpose: Evaluates effects of foliar disease leaf mold on yield & quality of grafted and non-grafted tomatoes grown in high tunnels.
   Contact: Wenjing Guan & Dan Egel

Cool Weather Crop in High Tunnel
Purpose: Variety trial of a cool weather crop (broccoli or spinach) in high tunnel 2
   Contact: Wenjing Guan & Dan Egel
Low Tunnel Demonstration
Purpose: Evaluate strawberries with and without low tunnels.
   Contact: Wenjing Guan

Specialty Crop Production: Diversification of the Indiana Fresh Market Cantaloupe
Purpose: To increase the planted acreage, farm productivity & profit margins for Indiana melon growers.
   Contact: Petrus Langenhoven & Wenjing Guan

Table Grape Research
Purpose: Evaluation of table grape varieties.
   Contact: Bruce Bordelon & Paul Howard

Wine Grape Research
Purpose: Evaluation of wine grape varieties in southwest Indiana.
   Contact: Bruce Bordelon & Paul Howard

Chestnut Study
Purpose: Evaluate Chestnut tree growth and nut production.
   Contact: Bruce Bordelon