Department of Agricultural and Biological Engineering

TPAC/ABE/M Gitau/Subsurface Phosphorous Transport/2018
Purpose: Utilizing lysimeters and sensors to assess the fate and movement of phosphorous through subsurface pathways.
Contact: Margaret Gitau

Department of Agronomy

TPAC/ARGY/Y Jiang/Evaluation Switchgrass Population/2018
Purpose: Assessment of flowering time and biomass yield of switchgrass and identify mechanisms controlling flowering time.
Contacts: Yiwei Jiang

TPAC/AGRY/S Brouder/Biomass Study/2018
Purpose: To evaluate perennial biomass crops such as switch grass, native prairie and miscanthus on marginal land.
Contact: Sylvie Brouder, Jeff Volenec, Niki De Armond

TPAC/AGRY/J Camberato/Biological Effects on Corn/2018
Purpose:
Contact: James Camberato

TPAC/AGRY/J Camberato/Starter Fertilizer Effects on no-till Continuous Corn/2018
Purpose:
Contact: James Camberato

TPAC/AGRY/J Camberato/Soybean Rotation for Corn Experiments/2018
Purpose:
Contact: James Camberato
Purpose: Camberato and Casteel will continue to monitor yield levels of corn and soybean in the K plots. Soil samples will be taken and potash will be applied to reestablish a soil K gradient.
Contact: Shaun Casteel, James Camberato

TPAC/AGRY/S Casteel/UnderCover - Manganese/2018
Purpose: UnderCover (4 nozzles) technology was released in 2015 and we had initial evaluations in 2016 (the only university to have it) to deliver plant nutrient and leaf production. Can UnderCover applications correct deficiencies of non-mobile to nearly non-mobile plant nutrients like S and Mn?
Contact: Shaun Casteel

TPAC/AGRY/S Casteel/UnderCover - Sulfur/2018
Purpose: UnderCover (4 nozzles) technology was released in 2015 and we had initial evaluations in 2016 (the only university to have it) to deliver plant nutrient and leaf production. Can UnderCover applications correct deficiencies of non-mobile to nearly non-mobile plant nutrients like S and Mn?
Contact: Shaun Casteel

TPAC/AGRY/S Casteel/Sulfur PAC/2018
Purpose: In 2015, our rescue study’s 6 bushel gain with ammonium sulfate (23 lb. S/ac dry or 11.5 lb S/ac foliar) has sparked many interests. In 2016 and 2017, we observed 12-bushel response with 20 lb. S/ac from AMS prior to emergence. We would like to investigate ATS similar to burndown timing, as well as AMS pre-plant, and foliar sprays. SWPAC 2016 study was 6 bu. response from 20 lb S/ac when applied at V4
Contact: Shaun Casteel, Curtis Brackett

TPAC/AGRY/S Casteel/UAV Stand Assessments of Soybean Seeding Rate x Plant Type/2018
Purpose: Use UAV imagery to assess stand establishment as well as standard protocol for scouting of soybean early to late season. We will use soybean variety/plant type x seed rate as the agronomic component. Then, we will use various altitudes, overlaps, etc. in determining the optimal arrangement for the UAV.
Contact: Shaun Casteel, Curtis Brackett
Department of Botany & Plant Pathology

TPAC/BTNY/J Beckerman/Fungicide Trails on Ornamentals: Peonies, Roses, Crabapples/2018
Purpose: This is both industry and IR4 trials
Contact: Janna Beckerman, Megan Haas

TPAC/BTNY/J Beckerman/Better Bitter Rot Management/2018
Purpose:
Contact: Janna Beckerman, Megan Haas

TPAC/BTNY/J Beckerman/Industrial Hemp Research and Demonstration Plot – Organic + Conventional/2018
Purpose: This research will examine the performance of oil and feed hemp when grown conventionally. This research will inform extension efforts to educate Hoosiers about hemp production in Indiana.
Contact: Janna Beckerman, Ron Turco, Kevin Gibson

TPAC/BTNY/K Gibson/Hemp – Planting Date + Cultivar Trial /2018
Purpose:
Contact: Kevin Gibson, Leah Sandler

TPAC/BTNY/K Gibson/Hemp – Weed Competition Trial /2018
Purpose:
Contact: Kevin Gibson, Leah Sandler

TPAC/BTNY/B Johnson/Anthem Maxx Efficacy vs. Competitive Treatments/2018
Purpose: Evaluate anthem maxx weed control
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Authority Supreme in Xtend System/2018
Purpose: Evaluate Authority Supreme with Xtendimax
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Fierce plus Dicamba in Burndown Situation/2018
Purpose: Evaluate different burndown treatments
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Flumi HPPD Combinations/2018
Purpose: Evaluate pre only herbicides on waterhemp control
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Valuse of Flexstar and Dual in Post Tank Mix on RR2Xtend Soybeans/2018
Purpose: Evaluate benefit of residual herbicides with xtend system
Contact: Bill Johnson, Taylor Campbell
TPAC/BTNY/B Johnson/MTZ + Sulf Formulations Tank Mix Comparisons Residual Weed Control/2018
Purpose: Evaluate tank mix residual of different Winfield herbicides
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/FMC Base Residual Treatments in Xtend Programs/2018
Purpose: Evaluate FMC residual treatments with xtendimax
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Balance GT Soybeans/2018
Purpose: Evaluate new HPPD tolerant soybeans
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Enlist Soybeans Program/2018
Purpose: Evaluate different enlist soybean programs
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Dicamba Residual in Burndown Trail/2018
Purpose: Evaluate different dicamba products and determine value of residual
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Zone, Zone Assist, and Zone Elite Tank Mixes/2018
Purpose: Evaluating tank mixes
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Flumioxazin Premix Components/2018
Purpose: Evaluate pre only herbicides on waterhemp control
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Pre Plant Burndown Corn and Soybean/2018
Purpose: Helm herbicide evaluation.
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Westrih/MGI Soybeans-Residual/2018
Purpose: Comparing Companies Products in Corn System.
Contact: Bill Johnson, Taylor Campbell, Dustin Johnson

TPAC/BTNY/B Johnson/Tough 5EC in Common Tank Mixuters for Waterhemp Control/2018
Purpose: Evaluate Tough with other herbicide combinations.
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Assessment of Pryidate+Mesotrione in Roundup System/2018
Purpose: Evaluate Tough with other herbicide combinations.
Contact: Bill Johnson, Taylor Campbell
TPAC/BTNY/B Johnson/Agros and Agros Ultra Tankmixed with Dicamba in Corn/2018
Purpose: Evaluating tank mixes with dicamba.
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Marestail and Waterhemp Control in Enlist System/2018
Purpose: Evaluate different herbicides with Enlist to control marestail and waterhemp.
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Microencapsulated Fierce/2018
Purpose: Determine crop safety and weed control on new formulations of Fierce.
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/Panther Pro No-Till/Liberty Link System/2018
Purpose: Evaluate Panther Pro in No till Liberty Link System.
Contact: Bill Johnson, Taylor Campbell

TPAC/BTNY/B Johnson/18-Regrowth-Flexstar-GR/2018
Purpose: Assess weed regrowth after herbicide application.
Contact: Bill Johnson, Dustin Johnson, Jesse Haarmann

TPAC/BTNY/B Johnson/18-Regrowth-Flexstar2-GR/2018
Purpose: Assess weed regrowth after herbicide application.
Contact: Bill Johnson, Dustin Johnson, Jesse Haarmann

TPAC/BTNY/B Johnson/18-Regrowth-Liberty-GR/2018
Purpose: Assess weed regrowth after herbicide application.
Contact: Bill Johnson, Dustin Johnson, Jesse Haarmann

TPAC/BTNY/B Johnson/Regrowth Flexstar MEIGS/2018
Purpose: Evaluate the effects of timing and herbicide on weed regrowth
Contact: Bill Johnson, Jesse Haarmann

TPAC/BTNY/B Johnson/Regrowth Liberty MEIGS/2018
Purpose: Evaluate the effects of timing and herbicide on weed regrowth
Contact: Bill Johnson, Jesse Haarmann

TPAC/BTNY/B Johnson/Liberty Link Adjuvant Effects2018
Purpose: Evaluate Rosen adjuvants in liberty link system
Contact: Bill Johnson, Taylor Campbell
Department of Botany & Plant Pathology (cont’d)

**TPAC/BTNY/B Johnson/Roundup Power Max and Fomesafen Adjuvant Effects/2018**
Purpose: Evaluate Rosen adjuvants on roundup and fomesafen
Contact: Bill Johnson, Taylor Campbell

**TPAC/BTNY/B Johnson/Xtendimax Adjuvants Effects/2018**
Purpose: Evaluate Rosen adjuvants on xtendimax
Contact: Bill Johnson, Taylor Campbell

**TPAC/BTNY/B Johnson/Enginia Adjuvants Effects/2018**
Purpose: Evaluate Rosen adjuvants on engenia
Contact: Bill Johnson, Taylor Campbell

**TPAC/BTNY/B Johnson/Dicamba Choline Salt Weed Efficacy and Soybean Tolerance/2018**
Purpose: Evaluate new dicamba choline salt formulation on waterhemp control and soybean tolerance
Contact: Bill Johnson, Taylor Campbell

**TPAC/BTNY/B Johnson/Soybean Showcase/2018**
Purpose: Evaluate Syngenta Products in Xtend and Liberty Link System
Contact: Bill Johnson, Taylor Campbell

**TPAC/BTNY/B Johnson/Cover Crop Termination Timing/2018**
Purpose: Evaluation of weed control looking various termination timings.
Contact: Bill Johnson, Dustin Johnson, Stephanie DeSimini

**TPAC/BTNY/B Johnson/RR Canola Termination/2018**
Purpose: Herbicide programs for termination of RoundUp Ready Canola.
Contact: Bill Johnson, Dustin Johnson, Stephanie DeSimini

**TPAC/BTNY/B Johnson/TPAC Corn SA/2018**
Purpose: Evaluate effect of cover crops on weed control of summer annuals in corn production.
Contact: Bill Johnson, Wyatt Petersen

**TPAC/BTNY/B Johnson/TPAC Corn TER/2018**
Purpose: Evaluate effect of cover crops termination and herbicide programs on corn production.
Contact: Bill Johnson, Wyatt Petersen

**TPAC/BTNY/B Johnson/18S-TPAC-Corn-01/2018**
Purpose: Harness Mas PRE Application timing.
Contact: Bill Johnson, Dustin Johnson
Department of Botany & Plant Pathology (cont’d)

TPAC/BTNY/B Johnson/18S-TPAC-Corn-02/2018
Purpose: Harness Max Post only Application timing.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-03/2018
Purpose: Harness Mas PRE fb Post Application timing.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-04/2018
Purpose: Syngenta & UPI Corn Showcase.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-05/2018
Purpose: Effectiveness of PRE + Post and One Pass Early Post Programs.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-06/2018
Purpose: Addition of Micronutrient & PGR Products to Herbicides Impact Weed Control in Corn.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-07/2018
Purpose: 2-Pass Corn Herbicide Programs.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-08/2018
Purpose: Diflexx Duo Program Comparison.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-09/2018
Purpose: Acuron Flexi PRE Broadleaf Performance.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-10/2018
Purpose: Postemergence Weed Control in Corn ShieldEx.
Contact Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-11/2018
Purpose: Influence of EXP-1422 on Glyphosate & Glufosinate in Corn.
Contact: Bill Johnson, Dustin Johnson
TPAC/BTNY/B Johnson/18S-TPAC-Corn-12/2018
Purpose: Corn Tolerance to Post Applications of Topyralate Premix.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-13/2018
Purpose: Enlist Corn Weed Control Programs.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-14/2018
Purpose: Cover Crop Tolerance to Copyralid & Rimsulfuron.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Corn-15/2018
Purpose: Argos & Argos Ultra Performance Comparison.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-16/2018
Purpose: EXP-1422 on Glyphosate & Glufosinate in Soybeans.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-17/2018
Purpose: UPI Soybean Herbicide Showcase.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-18/2018
Purpose: Liberty Link Soybean Programs in Conv. Tillage.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-19/2018
Purpose: Addition of Micronutrient & PGR Products to Herbicide Impact Weed Control in LL Soybeans.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-20/2018
Purpose: Flumioxazin in LL Soybeans System.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-21/2018
Purpose: High Rates of Fierce XLT.
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-22/2018
Purpose: Fierce & Dicamba Soybean Programs.
Contact: Bill Johnson, Dustin Johnson
TPAC/BTNY/B Johnson/18S-TPAC-Soy-23/2018  
Purpose: Tavium Plus in RR2 Xtend Soybeans.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-24/2018  
Purpose: Tavium Comparison in Xtend Soybean Herbicide Programs.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-25/2018  
Purpose: BAS 859 Program Comparison.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-26/2018  
Purpose: Engenia/BAS 859 Efficacy.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-27/2018  
Purpose: ISA Soybean Systems Demonstration.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-28/2018  
Purpose: MGI Tolerant Soybeans on Medium Soil Type.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-29/2018  
Purpose: Balance GT Soybean Showcase.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-30/2018  
Purpose: HT3 Soybean System Comparison.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-31/2018  
Purpose: Zone Maxx Efficacy & Crop Injury.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-32/2018  
Purpose: Quizalofop Performance on Volunteer Crop.  
Contact: Bill Johnson, Dustin Johnson

TPAC/BTNY/B Johnson/18S-TPAC-Soy-33/2018  
Purpose: Conventional vs. Non-conventional Soybean Herbicide Programs.  
Contact: Bill Johnson, Dustin Johnson
TPAC/BTNY/B Johnson/TPAC Cover Crop Project/2018
Purpose: Weed control in cover crops terminated at 3 different timings with 3 different herbicide strategies in Enlist and Xtend Soybeans.
Contact: Bill Johnson, Dustin, Johnson, Connor Hodgskiss

TPAC/BTNY/B Johnson/TPAC Long Term Trial/2018
Purpose: Long Term Weed Shift Study-Xtend & Enlist Soybean.
Contact: Bill Johnson, Dustin Johnson, Connor Hodgskiss

TPAC/BTNY/B Young/18-TPAC-Corteva Tunnel 1/2018
Purpose: Evaluate the volatility of different dicamba formulations.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/18-TPAC-Corteva Tunnel 2/2018
Purpose: Evaluate the volatility of different dicamba formulations.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/2018 BAS850 Group 15 Tank-Mix/2018
Purpose: Evaluate Soybean Response to PRE Applications of BAS 850 Alone and in Combination with Group 15 Herbicides.
Contact: Bryan Young, Dustin Johnson, Nick Steppig

TPAC/BTNY/B Young/2018 BAS850 Ragweed/2018
Purpose: Evaluate Control of Giant Ragweed Using BAS850 Alone and in combination with Other Herbicides.
Contact: Bryan Young, Dustin Johnson, Nick Steppig

TPAC/BTNY/B Young/2018 BAS850 Timing/2018
Purpose: Evaluate Soybean Response to PRE Timings of BAS850.
Contact: Bryan Young, Dustin Johnson, Nick Steppig

TPAC/BTNY/B Young/2018 BAS850 POST/2018
Purpose: Evaluate POST Control of Waterhemp using BAS850
Contact: Bill Johnson, Taylor Campbell, Nick Steppig

TPAC/BTNY/B Young/2018 BAS850 PRE/2018
Purpose: Evaluate PRE Control of Waterhemp using BAS850
Contact: Bill Johnson, Taylor Campbell, Nick Steppig

TPAC/BTNY/B Young/18-TPAC-Monsanto B7-13/2018
Purpose: Evaluate the volatility of different dicamba formulations.
Contact: Bryan Young, Dustin Johnson, Cade Hayden
Department of Botany & Plant Pathology (cont’d)

TPAC/BTNY/B Young/18-TPAC-Monsanto CP-13/2018
Purpose: Evaluate the volatility of different dicamba formulations.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/18-TPAC-Monsanto Volatility 1/2018
Purpose: Evaluate the volatility of different dicamba formulations.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/18-TPAC-Monsanto Volatility 2/2018
Purpose: Evaluate the volatility of different dicamba formulations.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/18-TPAC-Multiple Herbicide Injury/2018
Purpose: Evaluate soybean response to post-emergence herbicides and dicamba.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/18-TPAC-USB-Enlist/2018
Purpose: Evaluate Enlist soybean response to dicamba exposure.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Young/18-TPAC-USB-Multiple Dicamba Exposure/2018
Purpose: Evaluate soybean response to multiple dicamba exposures.
Contact: Bryan Young, Dustin Johnson, Cade Hayden

TPAC/BTNY/B Westrich/MGI Soybeans-Residual/2018
Purpose: Soil-applied herbicide combinations for use in MGI soybeans.
Contact: Ben Westrich

TPAC/BTNY/B Westrich/MGI Soybeans-Sequential/2018
Purpose: Soil-applied herbicide combinations followed by post-emergence herbicide combinations for use in MGI soybeans.
Contact: Ben Westrich

TPAC/BTNY/Aiyer-Pascuzzi/Bulking Tomato Seed for use in Identification of Bacterial wilt Resistance Genes/2018
Purpose:
Contact: Anjali Iyer-Pascuzzi, Denise Caldwell
TPAC/ENTM/C Krupke/Corn Rootworm Trap Crop/2018
Purpose: A late-planted trap crop in 2018 to provide an enhanced test area in 2019.
Contact: Christian Krupke, Larry Bledsoe

TPAC/ENTM/C Krupke/Efficacy of Commercial and Experimental Insecticides Used to Control/2018
Purpose: Evaluate new products and generate data for extension recommendations.
Contact: Christian Krupke, Larry Bledsoe

TPAC/ENTM/C Krupke/Evaluate Efficacy of Pest Management Products on Soybean Pest/2018
Purpose: Evaluate efficacy of pest management products on soybean pest.
Contact: Christian Krupke, Larry Bledsoe

TPAC/ENTM/L Enders/Investigating the Role of Symbiotic Microbes in the Transmission of Insect-vectored Plant Pathogens/2018
Purpose: This project investigates whether bacterial communities associated with aphids can influence transmission of Barley yellow dwarf virus, a globally destructive pathogen of cereal crops. We plan to collect aphids from existing cereal crops (e.g. wheat, rye, corn, other cover crops) and surrounding natural areas using several methods (pan traps, sweep netting, planting trap crop/strips) in Spring 2018 (May-June) and Fall 2018 (Aug-Sept).
Contact: Laramy Enders, Laura Ingwell, Brandon (Brandi) Schemerhorn

TPAC/ENTM/R Foster/Cabbage Insect Demonstration/2018
Purpose: This small plot will be used for my class to learn about pesticide application, data collection, and identification of cabbage insects.
Contact: Rick Foster, Larry Bledsoe

TPAC/ENTM/R Foster/Squash Collection Site/2018
Purpose: These plants are for collecting cucumber beetles for the row cover study.
Contact: Rick Foster, Larry Bledsoe

TPAC/ENTM/R Foster/Watermelon Best Practices/2018
Purpose: This study is to determine which practices will allow control of cucumber beetles with the least impact on pollinators.
Contact: Rick Foster, Larry Bledsoe

TPAC/ENTM/R Foster/Muskmelon Row Cover Study/2018
Purpose: This is a follow-up study to some of Mohammadi’s previous research that we need to be able to publish.
Contact: Rick Foster, Larry Bledsoe
Department of Entomology (cont’d)

TPAC/ENTM/R Foster/Sweet Corn Sprayers/2018
Purpose: This study is to compare various sweet corn sprays for control of corn earworm
Contact: Rick Foster, Larry Bledsoe

TPAC/ENTM/R Foster/Sweet Corn Insecticide Trial/2018
Purpose: This study is to compare various insecticide combinations for control of corn earworm.
Contact: Rick Foster, Larry Bledsoe

TPAC/ENTM/C Shee/Mass Trapping of Striped Cucumber Beetles/2018
Purpose: Using yellow gallon traps to kill SCP
Contact: Christie Shee, Ian Kaplan

TPAC/ENTM/C Shee/Cucumber Beetle-host Plant-pathogen Interactions/2018
Purpose: We request a trap crop of squash planted to collect cucumber beetles for lab exps. We are anticipating approximately 100 zucchini plants at about 12-inch spacing?
Contact: Christie Shee, Ian Kaplan

TPAC/ENTM/L Ingwell/Cucumber Variety Evaluation for High Tunnel Production/2018
Purpose: Evaluate the susceptibility of cucumber varieties used in high tunnel production to cucumber beetles and bacterial wilt in field production (not tunnels) 16 varieties, 4 plants of each variety. 6 feet between rows. 4 feet spacing within row. Need 5, 300’ rows.
Contact: Laura Ingwell, Wenjing Guan

TPAC/ENTM/L Ingwell/Specialty Crop Research Initiative (SCRI) Impact of Neonicotinoid Insecticides on Honey Bee Pollinators of Melons/2018
Purpose: The within and surround field impacts of neonicotinoid insecticides on honey bees. 15-acre corn fields with 0.5 acre watermelon and honey bee hives located within. Project will continue through 2020.
Contact: Laura Ingwell, Ian Kaplan, Christian Krupke

TPAC/ENTM/L Ingwell/Specialty Crop Research Initiative (SCRI) Impact of Neonicotinoid Insecticides on Bumble Bee Pollinators of Melons /2018
Purpose: Exploring the impact of neonicotinoids on bumble bee pollinators in melon production. Screens will be installed on all 6 tinnels, bumblebees will be in all tunnels, cover crop (clover mix) will remain in half of the tunnels.
Contact: Laura Ingwell, Ian Kaplan, John Ternest
Department of Entomology (cont’d)

TPAC/ENTM/L Ingwell/Specialty Crop Research Initiative (SCRI) Impact of Neonicotinoid Insecticides on Honey Bee Pollinators of Melons/2018
Purpose: Exploring the impact of herbicides on honey bee colony health using an attractive food source, Phacelia tanacetifolia.
Contact: Laura Ingwell, Christian Krupke

TPAC/ENTM/K Ingerslew/Phylogenetic Farming/2018
Purpose:
Contact: Kathryn Ingerslew, Ian Kaplan

TPAC/ENTM/W Ghanem/Optimizing Plant-Soil Feedbacks in High Intensity Crop Production Systems/2018
Purpose: Utilizing different growing techniques (cover crops, crop rotation, grafting) to test the effect of varying soil communities on plant and pest performance.
Contact: Wadih Ghanem

Department of Horticulture and Landscape Architecture

TPAC/HORT/B Bordelon/Wine Grape Vineyard/2018
Purpose: Replicated variety and advanced selection trial, advanced selection observations, a few bulk rows for miscellaneous studies (harvest date, etc effects on wine quality, SWD management, leaf phylloxera control, frost damage mitigation, etc.)
Contact: Bruce Bordelon, Paul Howard

TPAC/HORT/B Bordelon/Small Fruit Observation and Demonstration Trails/2018
Purpose: Planting primarily used as teaching block for HORT 318. Observations of winter injury, plant phenology, disease and insect incidence. Master Gardeners and others use the block as demonstration and in field days.
Contact: Bruce Bordelon, Paul Howard

TPAC/HORT/B Bordelon/Paw Paw Regional Variety Trial/2018
Purpose: This planting is one of 13 regional variety trials established in 1999. Many of those since have been removed, but ours is still in good condition. We plan to continue to collect data from this trial for the next few years. at Kentucky State University. The trial is also a popular stop for visitors to the farm. Paw paws are a novelty fruit.
Contact: Bruce Bordelon, Paul Howard

TPAC/HORT/K Daniel/NC-7 Ornamental Trials/2018
Purpose: Evaluation of Woody Plants
Contact: Kyle Daniels
Department of Horticulture and Landscape Architecture (cont’d)

TPAC/HORT/P Hirst/Evercrisp/2018
Purpose: To evaluate and define management systems for Evercrisp apples.
Contact: Peter Hirst

TPAC/HORT/P Hirst/Magnum Gala/2018
Purpose: Genotype evaluation.
Contact: Peter Hirst

TPAC/HORT/P Hirst/New Apple Cultivars/2018
Purpose: Multi-purpose collection and evaluation of new apple cultivars.
Contact: Peter Hirst

TPAC/HORT/P Hirst/ Honey Crisp Selections/2018
Purpose: Evaluation of new Honey Crisp apple trees.
Contact: Peter Hirst, Mokhles Ahmed Mokh Elsly

TPAC/HORT/J JANICK/AppleTrees/2018
Purpose: Identify advanced selections and maintain scion collection.
Contact: Jules Janick, Anna Whipkey

TPAC/HORT/J JANICK/Coop and Elite Selections Planting/2018
Purpose: Establish new block for coops and elite selections.
Contact: Jules Janick, Anna Whipkey

TPAC/HORT/J JANICK/Arugula Planting/2018
Purpose: Plant and harvest seed of Adagio arugula
Contact: Jules Janick, Anna Whipkey

TPAC/HORT/P Langenhoven/Specialty Crop Production: Diversification of the Indiana Fresh Market Cantaloupe Industry/2018
Purpose: The long term goal of this initiative is to increase the planted acreage, farm productivity and profit margins for Indiana melon growers. In the short term this project will address the demand for smaller high quality fruit by evaluating a market driven selection of melon types currently not grown in Indiana. Additionally new production technologies that would increase yield and enhance product quality will be tested.
Contact: Petrus Langenhoven

TPAC/HORT/P Langenhoven/Specialty Crop Production: Evaluation of Summer Squash for Local market Consumption/2018
Purpose: The objectives of this study are to explore the yield potential of summer squash varieties and varietal preferences amongst chefs.
Contact: Petrus Langenhoven
USDA - ARS

TPAC/USDA-ARS/J Gonzalez/Long Term Erosion Study/2018
Purpose: The purpose of the project is to quantify effects of tillage and crop rotation on yield and soil quality.
Contact: Javier Gonzalez, Brenda Hofmann

TPAC/USDA-ARS/J Gonzalez/Legacy phosphorus study/2018
Purpose: The purpose of the project is to evaluate soil phosphorus levels under different applications rate.
Contact: Javier Gonzalez, Brenda Hofmann

TPAC/USDA-ARS/C Penn/Long Term Phosphorus Stratification Study/2018
Purpose: The purpose of the project is to quantify effects of phosphorus products and crop rotation on yield and soil quality.
Contact: Chad Penn, Brenda Hofmann