

# FELDUN-PURDUE AGRICULTURAL CENTER RESEARCH AND DEMONSTRATION PROJECTS 2022

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Brad Shelton, Superintendent  
1117 State Road 458  
Bedford, IN 47421  
812-279-8554  
[sheltonb@purdue.edu](mailto:sheltonb@purdue.edu)  
<https://ag.purdue.edu/department/arge/PACs/fpac/fpac.html>

## **Indiana Beef Evaluation Program (IBEP)**

Purpose: Provide a common environment for growing young bulls from cooperators in Indiana as well as surrounding states. To provide a source of superior, performance tested bulls to commercial cattlemen intent on improving their herds.

Contact: Nick Minton, Department of Animal Sciences

## **Cross-Breed EPD Development Collaboration with Simmental Assoc**

Purpose: Early 2000's American Simmental Assoc wanted to develop cross-breeding EPDs and was looking for large commercial herds with phenotypic data. Feldun maintains a Simmental x Angus cow herd. Feldun has provided pedigree and phenotypic back to the early 1980s and continues to provide data from birth until death, or until the animal is culled. Approximately 8000 animal points and 1000 DNA samples have been submitted to the Simmental Assoc to help with this effort.

Contact: Brad Shelton, Feldun Purdue Ag Center

## **Select Sires – Young Sires Program Collaboration**

Purpose: Provide unbiased data on newer herd sires that Select Sires has added to their stud line up. Feldun utilizes sires through the AI program that suit the needs of the cow herd. Data from birth through slaughter, for steers, is provided to Select Sires.

Contact: Brad Shelton, Feldun Purdue Ag Center

## **Forest Inventory Studies**

Purpose: Provides location for woodland research activity across the 234 acres of forest at the Feldun-Purdue Agricultural Center. Current effort includes forest inventory. Feldun-PAC possesses mature woods with a long data base history dating back to the early 1950's.

Contact: Don Carlson, Department of Forestry & Natural Resources

## **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>

Contact: Beth Hall, Department of Agronomy

## **National Weather Service Station (NWS)**

Purpose: Manual collection of daily weather observations from this site are sent to the NWS via a web-based application known as WxCoder. Data has been recorded at Feldun since 1893.

Contact: Brad Herold, National Weather Service

### **U.S. Surface Climate Reference Network (USCRN)**

Purpose: Provide a continuous series of climate observations for monitoring trends in the nation's climate and for supporting climate-impact research

Contact: National Centers for Environmental Information.

### **Corn and Soybean Disease Sentinel Plots**

Purpose: To monitor for the on-set of various diseases in corn and soybeans throughout the growing season.

Contact: Darcy Telenko, Department of Botany and Pathology

### **Insect Pest Monitoring Network**

Purpose: Monitor insect pests of corn, soybean, wheat, and pastures.

Contact: John Obermeyer and Laura Ingwell, Department of Entomology

### **Black Vulture Monitoring**

Purpose: Gain a better understanding of black vulture behavior in order to reduce or prevent livestock depredation and conflict with humans.

Contact: Pat Zollman and Marian Wahl – Department of Forestry and Natural Resources

### **Effectiveness of Annual Ryegrass to mitigate negative effects of fragipan soils.**

Purpose: Establishment of annual ryegrass on fragipan soils and measure differences in soybean production as compared to no ryegrass treatment. Measure fragipan depths overtime.

Contact: Brad Shelton, Feldun Purdue Ag Center; Claire Phillips – USDA/ARS – Ames, IA

### **Efficacy of a once-used CIDR pre-synchronization protocol on yearling beef heifers.**

Purpose: Determine the effectiveness of a short term, once-used CIDR estrous pre-synchronization protocol followed by a 7-day co-synch + CIDR protocol on yearling beef heifer reproductive efficiency

Contact: Kara Stewart, Department of Animal Science