

# **SOUTHERN INDIANA PURDUE AGRICULTURAL CENTER RESEARCH AND DEMONSTRATION PROJECTS 2024**

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<https://ag.purdue.edu/arp/pac/Pages/sipac-home.aspx>

## **Department of Agronomy**

### **Establishment and Evaluation of water tolerant forage species for flood prone pastures**

To look at alternative forages to reeds canary grass for flood prone pastures  
Contact: Keith Johnson, Agronomy Department, Purdue

### **Purdue Automated Weather Station**

Purpose: to collect weather data that can be accessed real time via the internet.  
Contact: Beth Hall – Purdue

### **Monitoring Three Grazing Systems Utilizing Different Forage Base Under Similar Management and Stocking Rates**

Contacts: Keith Johnson, Jason Tower and Nick Minton, Purdue University  
Patrick Keyser, University of Tennessee

## **Department of Animal Disease Diagnostic Laboratory**

### **Establishment of a Weeds Toxic to Livestock Garden**

Contact Dr. Grant Burcham, Purdue University ADDL, Dr. Keith Johnson, Purdue University, Molley Hasenour, Purdue Extension

## **Department of Animal Science**

### **Evaluation of Hair Sheep Production in Southern Indiana**

Contact: Mike Neary, Department of Animal Sciences-Purdue

### **Evaluation of Meat Goat Production in Southern Indiana**

Contact: Mike Neary, Department of Animal Sciences-Purdue

### **Demonstration of Establishment of Annual Forages in to Fescue Pastures**

Contact Jason Tower - Purdue University

### **Demonstration of Grain Sorghum for Winter Grazing**

Seed provided by Mike Laird - Winfield  
Contact Jason Tower, Purdue University

### **Sheep GEMS' Project (Genetics, Environment, Management and Society)**

Contact: Luiz Brito, Purdue University, Ron Lewis, University of Nebraska-Lincoln

## Department of Entomology

### **Evaluating the efficacy of different fly tags in beef cattle for Face and Horn fly control**

Contact: Ralph Williams, Entomology-Purdue University

### **Surveying Armyworm Populations**

To monitor collection of specific pests for southern Indiana  
Contacts: John Obermeyer, Entomology-Purdue University

## Department of Horticulture & Landscape Architecture

### **Investigating the re-integration of organic food crops and animal production on above and below ground diversity, soil health, farm resilience and food safety**

Contact Moriah Bilenky, Purdue University

## Collaborations

### **Monitoring for the arrival of Asian Long Horn Ticks in Indiana**

Contact Doug Ginder, Indiana Department of Health

### **Monitoring the Effect of Annual Rye Grass and Festulium on Fragipan Soils**

Contact: Lloyd Murdock, University of Kentucky, Princeton Station

### **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.

Contact: Cliff Goff, NWS or SIPAC Staff

## SOUTHERN INDIANA PURDUE AGRICULTURAL CENTER FORESTRY RESEARCH AND DEMONSTRATION PROJECTS 2024

Ron Rathfon, Forestry & Natural Resources  
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**Title:** Monitoring Wildlife Diversity and Abundance through Camera Trapping

**Location:** SIPAC, All Forests

**Purpose:** Monitoring mammalian wildlife diversity and abundance using camera trapping in Purdue and FNR managed woodlands.

**Contact:** Jarred Brooke, Forestry and Natural Resources, Purdue

**Title:** Forestry for the Birds: Avian Response to Forest Management

**Location:** SIPAC, All Forests

**Purpose:** Monitoring avian species diversity in response to different management practices in Purdue and FNR managed woodlands.

**Contact:** Jarred Brooke, Lenny Farlee, and Rod Rathfon, Forestry and Natural Resources, Purdue

**Title:** FNR Student intern program

**Location:** SIPAC, All Forests

**Purpose:** To give 3 to 4 students hands on applies timber stand improvement and data collection experience

**Contact:** Ron Rathfon

**Title:** Prescribed grazing using goats for integrated management of non-native invasive vegetation

**Location:** SIPAC, PFP10, PFP14

**Title:** Pre-emergent herbicide application for Japanese stiltgrass control

**Location:** SIPAC, Fields 1b, 4, 7, 12b, 17, Woods F, G

**Title:** Oak shelterwood with underplanting demonstration

**Location:** SIPAC, Woods K

**Title:** Three-dimensional, baited electric fence for excluding deer from oak underplantings

**Location:** SIPAC, Woods K

**Title:** Bayer – Testing Aminocyclopyrachlor herbicide for injection and drill-and-fill treatment of hardwood stems.

**Location:** SIPAC, Woods Q, K

**Title:** Prescribed fire for invasive species management

**Location:** SIPAC, Woods E, G, M, Q, PFP8, PFP16

**Title:** Prescribed fire for oak woodland development and maintenance

**Location:** SIPAC, PFP1

**Title:** Blight resistant American chestnut progeny screening trial

**Location:** SIPAC, Field 11

**Title:** Prescribed grazing using goats for integrated management of non-native invasive vegetation

**Location:** SIPAC, Woods D

**Title:** Oak shelterwood and prescribed fire for regenerating oak demonstration

**Location:** SIPAC, Woods Q

**Title:** Growth and yield of upland hardwoods

**Location:** SIPAC, All tracts

**Title:** Integrating GPS, GIS mapping with stand level silvicultural prescription  
Development in forest management

**Location:** SIPAC, All tracts

**Title:** Landscape level non-native invasive species management demonstration

**Location:** SIPAC, All tracts and fields