

# Indiana Cooperative Agricultural Pest Survey

## 2022 Annual Report for Infrastructure

1 January – 31 December



Department of Entomology at Purdue University  
Indiana Department of Natural Resources (IDNR)  
United State Department of Agriculture (USDA), Animal and Plant Health Inspection Service  
(APHIS), Plant Protection and Quarantine (PPQ)

Prepared by Alicia J. Kelley  
Department of Entomology  
Purdue University

10 May 2023

<b>Year:</b>	2022
<b>State:</b>	Indiana
<b>Cooperative Agreement Name:</b>	Indiana Agricultural Pest Surveys (CAPS) 2022
<b>Cooperative Agreement Number:</b>	22-8218-0332-CA
<b>Project Funding Period:</b>	1 January 2022– 31 December 2022
<b>Project Report:</b>	PD / CAPS Infrastructure Report
<b>Project Document Date:</b>	31 March 2023
<b>Cooperators Project Coordinator:</b>	Alicia J. Kelley
<b>Name:</b>	Megan L. Abraham
<b>Agency:</b>	Indiana Department of Natural Resources
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Quarterly Report	<input type="checkbox"/>
Semi-Annual Accomplishment Report	<input type="checkbox"/>
Annual Accomplishment Report	<input checked="" type="checkbox"/>

**A. Compare actual accomplishments to objectives established as indicated in the work plan. When the output can be quantified, a computation of cost per unit is required when useful.**

The primary objectives of this infrastructure agreement include administrating the development, coordination, execution, and archiving results of surveys intended to detect and/or monitor exotic pest threats to commodities and natural resources that are of National and Indiana concern. To this end, funding supported a full time State Survey Coordinator (SSC) who was jointly supervised by the Indiana Department of Natural Resources (IDNR) and by Purdue University Department of Entomology. Infrastructure emphasis was placed on meeting the administrative challenges of survey, pest sample processing, identification, and archiving organisms obtained via program survey and cooperative activities/surveys with IDNR, APHIS PPQ, Purdue University Extension, and Purdue Plant Pest and Diagnostic Laboratory (PPDL).

The Indiana SSC position was administered by IDNR, Division of Entomology (cooperator) through a service contract extended to Purdue University Department of Entomology. In April 2022, the SSC for Indiana (Larry Bledsoe) retired after fourteen years of service to the program. A new SSC (Alicia Kelley) was hired in May 2022 as the survey season began.

**Activities**

*Pest Detection / CAPS Survey Work*

The SSC began coordinating the 2022 survey season on 17 May 2022 upon hire, with assistance from the Purdue Entomology Department and the former SSC. Three surveys were conducted in Indiana: Field Crops (corn and soybean), Nursery and Retail Plants, and Exotic Wood Borer/Bark Beetles. The SSC coordinated and executed the Field Crops Survey. IDNR coordinated the Nursery and Retail Plants Survey, and USDA-APHIS-PPQ collaborators conducted the Exotic Wood Borer/Bark Beetle Survey.

Two technicians were hired in May 2022 to assist with duties in the CAPS lab. The SSC initiated trapping for the Field Crops Survey in June 2022. The CAPS survey cooperators (IDNR and APHIS-PPQ) began surveys in March 2022. Trap maintenance and sample collection continued until September 2022 for the Field Crops Survey, and until October 2022 for the Nursery and Retail Plants Survey and the Exotic Wood Borer/Bark Beetle Survey. Samples from all three surveys were sent to the CAPS lab for processing. Technicians performed initial cleaning and sorting of suspect specimens to family; the SSC further screened the specimens and forwarded potential targets to PPQ identifiers.

Data collection and entry into the NAPIS database occurred from October 2022 through February 2023. Final NAPIS uploads for the Indiana CAPS program were completed on 9 February 2023.

*Other APHIS or State Survey Work*

The SSC coded and uploaded data to NAPIS for the following PPA 7721 surveys: Exotic Wood Borer/Bark Beetles and Specialty Crops. The SSC also coded and uploaded USDA 2022 Khapra beetle survey to the NAPIS database.

Additionally, the CAPS technical staff and SSC provided taxonomic assistance to the surveys listed above.

*Committee Service*

The SSC creates the Indiana CAPS Committee and is responsible for managing all work plans and annual reports. The SSC creates data summaries to present to the committee members as needed. The SSC is also responsible for planning and conducting the annual meetings.

As of February 2023, the Interim Dean of Agriculture at Purdue University appointed Alicia Kelley, the Indiana SSC, as the Dean’s representative to the Indiana Invasive Species Council. The Dean’s representative serves as membered secretariat for the council, including taking meeting minutes and maintaining an active website. This appointment is newly assigned in 2023 and thus activities on the council will be reflected further in next year’s report.

**Outreach and Education**

*Interviews (TV/Radio/Newspaper/Magazines)*

The SSC did not give any interviews in 2022.

*Outreach materials*

The SSC is in the process of updating the Indiana CAPS website with the assistance of Purdue Entomology Department’s administrative staff. This process began in November 2022 and is ongoing, with goals to complete the website in 2023.

The SSC wrote a guest article on kissing bugs for the Plant Pest and Diagnostic Clinic’s website.

*Publications*

The SSC did not author any publications in 2022.

*Public Service Announcements (PSA):*

The SSC did not make any PSAs in 2022.

**Meetings**

*Conference calls*

Indiana Department of Natural Resources monthly divisional conference calls	Monthly conference calls
Purdue University Cooperative Extension Service Invasive Species Working Group	Monthly conference calls

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Central Plant Board SSCs

9 Nov 2022

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*Conferences*

The SSC did not attend any conferences in 2022.

*Webinars*

The SSC did not attend any webinars in 2022.

*Committee meetings*

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Indiana CAPS Committee Meeting

13 July 2022

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Indiana Invasive Species Council

16 Feb 2022, 18 May 2022, 20 July 2022, 2 Nov 2022

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*Other*

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Purdue Entomology Extension Luncheon

16 Dec 2022

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**Training**

Upon hiring in May, the new SSC has received training on the taxonomy and biology of target species in Indiana. This is self-taught with the resources provided by the USDA-APHIS-PPQ taxonomists, as well as some one-on-one guidance from taxonomists in the department of entomology.

**Indiana CAPS Primary Committee 2022**

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Megan L. Abraham  
Indiana Department of Natural Resources  
Division of Entomology and Plant Pathology

State Plant Regulatory Official (SPRO)  
Recipient Organization's Cooperating  
Representative (ROCR)  
CAPS Cooperator

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Jason Allen  
USDA-APHIS-PPQ

State Plant Health Director (SPHD)  
Authorized Departmental Officer's  
Designated Representative (ADODR)

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Dr. Steve Yaninek  
Professor of Entomology  
Purdue University

Purdue Entomology  
Faculty Sponsor

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Dr. Alicia Kelley  
Purdue University

Indiana State Survey Coordinator

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**Indiana CAPS Supporting Committee 2022**

Dr. Tom Creswell	Purdue University Plant and Pest Diagnostic Laboratory	Plant Disease Diagnostics
Dr. John Bonkowski	Purdue University Plant and Pest Diagnostic Laboratory	Plant Disease Diagnostics
Nick Barc	USDA-APHIS	Pest Survey Specialist
Bonnie Dietrich	Purdue University	Cooperative Agricultural Pest Survey Information Services (CAPSIS)
Dr. Robert Brown	USDA-APHIS-PPQ	Taxonomist
Vince Burkle	Indiana Department of Natural Resources	Survey collaborator

If appropriate, explain why objectives were not met.\*

All objectives were met.

**B.** Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000\*.

No cost overruns occurred.

**C.** Was all Pest Detection / CAPS survey data entered into the National Agricultural Pest Information System (NAPIS)?

All CAPS data were uploaded to NAPIS.

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*\*indicates information is required per 7 CFR 3016.40 and 7 CFR 3019.51*

Approved and signed by

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Megan L. Abraham (Cooperator) (ROCR) Date: \_\_\_\_\_

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Jason Allen (SPHD/ADODR) Date: \_\_\_\_\_