

Indiana Cooperative Agricultural Pest Survey

2021 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 Larry W. Bledsoe
Department of Entomology
Purdue University

14 February 2021

Year:	2021
State:	Indiana
Cooperative Agreement Name:	Indiana Agricultural Pest Surveys (CAPS) 2021
Cooperative Agreement Number:	21-8218-0332-CA
Project Funding Period:	1 January 2021 – 31 December 2021
Project Report:	PD / CAPS Infrastructure Report
Project Document Date:	31 March 2022
Cooperators Project Coordinator:	Larry W. Bledsoe
Name:	Megan L. Abraham
Agency:	Indiana Department of Natural Resources
Address:	402 West Washington, Room W-290
City/ Address/ Zip:	Indianapolis, Indiana 46204
Telephone:	317-232-4198
E-mail:	MAbraham@dnr.IN.gov

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). SSC outreach occurred by invited presentations, a web presence (in-revision), and dialogue with stakeholders.

The Indiana SSC position was administered by IDNR, Division of Entomology (cooperator) through a service contract extended to Purdue University Department of Entomology.

Survey administration and planning for 2021 began in July 2020, and involved close interaction with USDA-APHIS Indiana collaborators, public collaborators (e.g. The Nature Conservancy), IDNR, and Purdue University personnel. Trapping pathways and methods were established through early 2021.

Recruitment and hiring of summer staff occurred December 2020 through January 2021. Final planning and coordination of survey activities and intern training consumed much of the attention of the SSC during April/May/June. Due to scholastic scheduling conflicts of summer interns, the number of intern hours word declined, resulting in the SSC performing many of the field and lab duties.

A CAPS committee met on 15 July to review SSC performance, review 2021 surveys to date, and plan 2022 surveys.

Planning for 2022 surveys, committee meeting (virtual and teleconference), phone inquiries, and document preparation consumed the later part of July and most of August. Specimen sampling, prescreening, and identification constituted a major portion of effort of all staff during the summer, fall and winter. Limited outreach activities involved one invited presentation.

State CAPS Primary Committee 2021:

State Plant Regulatory Official (SPRO)	Megan L. Abraham
Recipient Organization's	Indiana Department of Natural Resources
Cooperating Representative (ROCR)	Division of Entomology and Plant Pathology
CAPS Cooperator	

State Plant Health Director (SPHD):	Jason Allen
Authorized Departmental Officer's	USDA APHIS PPQ
Designated Representative (ADODR)	

Purdue Department of Entomology Dr. Steve Yaninek
 Professor of Entomology, Purdue University

Indiana State Survey Coordinator (SSC) Larry W. Bledsoe
 Purdue Department of Entomology, Purdue University

Supporting committee:

<u>Name</u>	<u>Organization</u>	<u>Discipline</u>
Dr. Tom Creswell	Purdue University	Plant Disease Diagnostics
Nick Barc	USDA-APHIS	Pest Survey Specialist
Dr. John Bonkowsky	Purdue University	Plant Disease Diagnostics
Dr. Jeffery Holland	Purdue University	Entomology, Forest Landscape Ecology
Dr. Chris Oseto	Purdue University	Entomology/ Identification
Dr. Cliff Sadof	Purdue University	Ornamental Pests/ Identification
James Kruse (interim)	Purdue University	National Ag Pest Information Svc
Dawn Slack	The Nature Conservancy	Director of Land Stewardship

• Activities:

-Pest Detection / CAPS Survey Work:

1. Surveys directly and indirectly managed and performed by the SSC included Field Crop commodity, (corn and soybean), nursery and retail plants, and exotic wood borer/bark beetle. Duties included planning, execution, sample processing, and reporting. The SSC provided multi-taxa taxonomic assistance to IDNR and PPDL.

- Other APHIS or State Survey Work:

1. The SSC coded and/or uploaded Indiana 2020 data (sample processing completed in 2021) from state and federal gypsy moth survey, and federal Farm Bill 2020 Indiana Specialty Crops Survey to the NAPIS database.
2. The SSC coded and uploaded USDA 2021 khapra beetle survey to the NAPIS database.
3. Taxonomic assistance was provided for the Indiana Farm Bill Specialty Crops Survey.

- Committee Service:

1. Ex-officio secretary for the quarterly meetings of Indiana Invasive Species Council. This Council is appointed by the governor of Indiana.
2. Participant on the Purdue University Cooperative Extensive Service Invasive Species Working Group.
3. Member of the Indiana Invasive Plant Advisory Committee.
4. Planning committee of the Indiana Certified Crop Advisors

• Outreach and Education:

1. Interviews (TV/Radio/Newspaper/Magazines): none
2. Outreach materials (Pamphlets/ brochures/ posters): none

- 3. Publications: none
- 4. Public Service Announcements (PSA): none

- Meetings:

- Indiana Invasive Plant Advisory Committee meeting,
- Indiana Invasive Species Council, 16 Feb., 18 May, 10 Aug., 9 Nov.
- Purdue University Cooperative Extension Service Invasive Species Working Group, 19 Jan, 19 Feb., 27 Mar 29 29 Apr 21 Aug, 20 Nov.
- CAPS CPB SSC, 3 Feb
- CAPS website meeting w/ ENTM, 18 Mar.
- CAPS survey planning meeting, 15 Jul.
- CAPS budget planning meeting w/ ENTM, 27 Jul.
- Indiana Certified Crop Advisors, annual meeting planning, 6 Apr, 25 Jun.
- Interview with prospective CAPS intern, 1 Nov

- Conference calls:

1. Monthly CAPS updates with Indiana Natural Resources personnel, 11 Jan, 8 Feb, 8 Mar, 12 Apr, 13, 10 May, 14 Jun. 13 Jul, 9 Aug, 13 Sept, 18 Oct, 8 Nov, 13 Dec
2. SPRO, SPHD, SSC conference, 19 Jan.

- Conferences: none
- Webinars, EABU; spotted lanternfly, 29 Apr.
- Training: none
- Other: none

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

Check if objectives were not met due to the impact(s) of the coronavirus COVID-19. Explain how the impacts affected coordination, planning, surveys, and/or survey operations.

- 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)? If not, please provide a justification. All CAPS data were uploaded to NAPIS.
- D.** Supporting Documents: none.

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

Approved and signed by

Megan L. Abraham (Cooperator) (ROCR)

Date: _____

Jason Allen (SPHD/ADODR)

Date: _____