

Indiana Cooperative Agricultural Pest Survey

2020 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

19 February 2020

Pest Detection / CAPS Infrastructure Accomplishment Report – FY2020

Year:	2020
State:	Indiana
Cooperative Agreement Name:	Indiana Agricultural Pest Surveys (CAPS) 2020
Cooperative Agreement Number:	20-8218-0332-CA
Project Funding Period:	1 January 2020 – 31 December 2020
Project Report:	PD / CAPS Infrastructure Report
Project Document Date:	31 March 2021
Cooperators Project Coordinator:	Larry W. Bledsoe
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Quarterly Report	<input type="checkbox"/>
Semi-Annual Accomplishment Report	<input type="checkbox"/>
Annual Accomplishment Report	<input checked="" type="checkbox"/>

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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 supports a full time State Survey Coordinator (SSC) who is jointly supervised by the Indiana Department of Natural Resources (IDNR) and 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 will occur by invited presentations, a web presence, and dialog 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 2020 began in July 2019, and involved close interaction with USDA-APHIS Indiana collaborators, public collaborators (e.g. The Nature Conservancy), and Purdue University personnel. Trapping pathways and methods were established through early 2020.

Recruitment and hiring of summer staff occurred February 2020. Final planning and coordination of survey activities and intern training consumed much of the attention of the SSC during April/May. Medical leave of the SSC and state-wide Covid-19 restrictions made survey setup difficult and slightly delayed, but no loss of survey information occurred. Due to budget constraints and scholastic scheduling conflicts, the number of summer interns was reduced, resulting in the SSC performing many of the field and lab duties.

A CAPS committee met on 8 July to review SSC performance, review 2020 surveys to date, and plan 2021 surveys.

State CAPS Primary Committee 2020:

Recipient Organization's Cooperating Representative (ROCR) State Plant Regulatory Official (SPRO)	Megan L. Abraham Indiana Department of Natural Resources Division of Entomology and Plant Pathology
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State Plant Health Director (SPHD): Authorized Departmental Officer's Designated Representative (ADODR)	Nick Johnson, interim (now Jason Allen) USDA APHIS PPQ
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Purdue Department of Entomology Professor of Entomology	Dr. Steve Yaninek
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Indiana State Survey Coordinator (SSC) Purdue Department of Entomology	Larry W. Bledsoe
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Supporting committee

<u>Name</u>	<u>Organization</u>	<u>Discipline</u>
Dr. Bruce Bordelon	Purdue University	Horticulture
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
Cindy Music	Purdue University	National Ag Pest Information Svc
Dawn Slack	The Nature Conservancy	Director of Land Stewardship

Planning for 2021 surveys, committee meeting, phone calls, 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 and fall. Limited outreach activities involved four invited presentations to the Indiana Master Gardener Program in spring and fall.

• 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 2019 data (sample processing completed in 2020) from state and federal gypsy moth survey, and federal Farm Bill 2019 Indiana Specialty Crops Survey to the NAPIS database.
2. The SSC coded and uploaded USDA 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 two of 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:

Interviews (TV/Radio/Newspaper/Magazines): none
Outreach materials (Pamphlets/ brochures/ posters): none
Publications: none

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Public Service Announcements (PSA): none
Master Gardener presentation (Floyd Co.)

- Meetings:

Indiana Invasive Plant Advisory Committee virtual meeting, 3 Feb., 14 Jul (virtual). 15 Sept (virtual), 12 Sept (virtual)
Indiana Invasive Species Council, 3 February, 10 Nov (virtual).
Purdue University Cooperative Extension Service Invasive Species Working Group 29 Jan, 21 Feb., 27 Mar 29 (virtual) 29 Apr (virtual), 21 Aug, 20 Nov.
Indiana Certified Crop Advisors, annual meeting planning (virtual), 14 Jul
Interview with prospective CAPS interns, 10 Nov

- Conference calls:

1. Monthly CAPS updates with Indiana Natural Resources personnel, 13 Jan, 11 Feb, 9 Mar, 13 Apr, 13, 11 May, 8 Jun. 13 Jul, 10 Aug, 14 Sept, 19 Oct, 9 Nov, 14 Dec
2. CAPS planning w/IDNR 16 Jul.
3. SSC conference call, 16 Jan

- Conferences:

1. Central Plant Board 2020 meeting was cancelled.

- Webinars:

1. CAPS Online Workplan - present and review/Cindy Music, 10 June.
2. "What We Know So Far -- How Feeding & Mating Behavior are Related to *Lycorma delicatula* (Spotted Lantern Fly) Flight Dispersal," Tom Baker, 29 Oct.
3. Objective Prioritization of Exotic Pests, 29 Apr.
4. Purdue Extension Invasive Species working group. 30 April.

- Training:

1. SSC self-study: taxonomic prescreening of bark beetles (Scolytinae), noctuid moths (Noctuidae), metallic wood boring beetles (Buprestidae), and longhorn beetles (Cerambycidae).
2. Information Security Awareness & Acknowledgement of Rules of Behavior (ROB) Certification, 31 Jan,

- Other:

1. The Indiana CAPS website is under revision and had 3,004 unique page views.

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.* CAPS funds were fully expended without cost overrun.

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

D. Supporting Documents. none

**indicates information is required per 7 CFR 3016.40 and 7 CFR 3019.5*

Approved and signed by

_____ Date: _____
Megan L. Abraham (Cooperator) (ROCR)

_____ Date: _____
Jason Allen (SPHD/ADODR)