

Indiana Cooperative Agricultural Pest Survey

2018 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)

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Purdue University

1 March 2019

Year:	2018
State:	Indiana
Cooperative Agreement Name:	Indiana Agricultural Pest Surveys (CAPS) 2018
Cooperative Agreement Number:	18-8218-0332-CA
Project Funding Period:	1 January 2018 – 31 December 2018
Project Report:	CAPS Infrastructure Report
Project Document Date:	31 March 2019
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"/>

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 the administration of 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 will be 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, and with the 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. The infrastructure work plan and budget were executed under an IDNR pre-award, and a Purdue University notice-to-proceed award from 1 January 2018 to 31 December 2018.

Survey planning and administration began in the latter months of 2017 and early in 2018 and involved close interaction with USDA-APHIS Indiana collaborators and Purdue University. Trapping pathways and methods were established during this period.

Recruitment and hiring of summer staff occurred in late winter/early spring of 2018. Participation in the Central Plant Board annual meeting occurred in late spring. Final planning and coordination of survey activities and intern training consumed much of the attention of the SSC during this time. Due to budget constraints, the number of summer interns was reduced resulting in the SSC performing many of the field and lab duties.

A CAPS committee met on 24 July to review SSC performance, review 2018 surveys to date, and plan 2019 surveys.

Surveys directly and indirectly managed by the SSC included corn commodity, soybean commodity, nursery and retail plants, and exotic wood borer/bark beetle.

State CAPS Primary Committee:

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
State Plant Health Director (SPHD): Authorized Departmental Officer's Designated Representative (ADODR)	Gary Simon USDA APHIS PPQ
Department of Entomology Professor of Entomology	Dr. Steve Yaninek

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

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
Dr. Jeffery Holland	Purdue University	Entomology, Forest Landscape Ecology
Nick Barc	USDA-APHIS	Pest Survey Specialist
Dr. Chris Oseto	Purdue University	Entomology/ Identification
Gail Ruhl	Purdue University	Plant Disease Diagnostics
Dr. Cliff Sadof	Purdue University	Ornamental Pests/ Identification
Cindy Music	Purdue University	National Ag Pest Information Svc
Dawn Slack	The Nature Conservancy	Land Stewart

Planning for 2019 surveys, committee meeting, phone calls, and document preparation consumed the later part of July and most of August. Specimen prescreening and identification constituted a major portion of effort of all staff during the summer and fall. Limited outreach activities involved invited presentations to the Indiana Master Gardener Program in spring and fall.

• Activities:

- Committee Service:

1. The SSC was secretary for the quarterly meetings of Indiana Invasive Species Council. This Council is appointed by the governor of Indiana.
2. The SSC was a participant on the Purdue University Cooperative Extensive Service Invasive Species Working Group.
3. The SSC was a member of the Indiana Invasive Plant Advisory Committee.
4. Planning committee for the Indiana Invasive Species Council 3rd Biennial Conference, Grassroots Networking & Resources to Manage Invasive Species in Indiana, 15 February 2018, Hendricks County 4-H Fairgrounds and Conference Center, Danville, IN.

- Other Survey Work:

1. The SSC coded and uploaded Indiana data from the National Honey Bee survey and state and federal gypsy moth survey.
2. The SSC coded and uploaded USDA surveys for Karnal Bunt of wheat and Khapra beetle. Other incidental pests were uploaded as needed.

• Outreach and Education:

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

• Meetings:

Indiana Invasive Plant Advisory Committee meeting, 19 January, 13 May.
Indiana Invasive Species Council, 31 January, 9 May, 25 July, 28 Nov
Purdue Cooperative Extension Service Invasive Species Collaboration meeting, Martell Forest, West Lafayette, IN 2 Oct.

- Conference calls:

1. Monthly CAPS updates with Indiana Natural Resources personnel, 12 Feb, 12 Mar, 9 Apr, 14 May, 11 Jun. 9 Jul, 20 Aug, 10 Sept, 9 Oct, 5 Nov, 10 Dec.
2. Conference call with PPQ collaborators, 20 April;
3. SSC conference call, 25 June.
4. Purdue University Cooperative Extension Service Invasive Species Working Group 20 Nov.

- Conferences:

1. Purdue Cooperative Extension Service Invasive Species Collaboration Conference, Martell Forest, West Lafayette, IN 27 April.
2. Central Plant Board 2-4 April 2018, Starved Rock Lodge & Conference Center, Starved Rock State Park, 2678 E. 873rd Road. Oglesby, IL 61348.

- Webinars:

1. An Overview of the CAPS Resource & Collaboration Website, Cindy Music, 8 Jan
2. CAPS Survey Planning Page, Cindy Music and Lisa Jackson, 22 Aug 2018.

• Training:

1. SSC self-study: taxonomic prescreening of bark beetles (Scolytinae), noctuid moths (Noctuidae), metallic wood boring beetles (Buprestidae), and longhorn beetles (Cerambycidae).
2. SSC was the science advisor for APHIS incident command training for simulated infestation of old world bollworm, Indianapolis, 15 May.
3. SSC attended the breakout session at Central Plant Board annual meeting at Starved Rock Conference Center, (3 April) at which spotted lanternfly biology and survey, and a data collection and management system.

• Other:

1. SSC represented Purdue University as panel reviewer for an Invasive Species Symposium at Clay Middle School, 5150 E. 126th Street, Carmel, IN 46033
2. The Indiana CAPS website had 3,391 page views.

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

C. Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000.* CAPS funds were fully expended without cost overrun.

D. Supporting Documents. none

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