

Indiana Cooperative Agricultural Pest Survey

2017 Infrastructure Annual Report

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

6 March 2018

PURDUE
UNIVERSITY

Purdue Extension
Knowledge to Go
1-888-EXT-INFO

IDNR
INDIANA DEPARTMENT OF
NATURAL RESOURCES

USDA

APHIS

Year:	2017
State:	Indiana
Cooperative Agreement Name:	Indiana Agricultural Pest Surveys (CAPS) 2017
Cooperative Agreement Number:	17-8218-0332-CA
Project Funding Period:	1 January 2017 – 31 December 2017
Project Report:	CAPS Infrastructure
Project Document Date:	30 March 2018
Cooperators Project Coordinator:	Larry W. Bledsoe
Name:	Megan Abraham
Agency:	Indiana Department of Natural Resources
Address:	402 West Washington, Room W-290
City/ Address/ Zip:	Indianapolis, Indiana 46204
Telephone:	317-232-4189
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"/>

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

The infrastructure work plan defines the responsibilities and logistics of funding for the State Survey Coordinator (SSC). The SSC position is maintained at Purdue University, Department of Entomology by cooperative agreement with the Indiana Department of Natural Resources (IDNR). The SSC manages an office and laboratory with one to two temporary employees. The SSC creates a committee that oversees the direction and scope of the state surveys. The SSC is responsible for administration, planning and executing surveys. The level of commitment ranges from full responsibility for all aspects of surveys to developing collaborations that increase the efficiency of funding for other surveys. The SSC collaborates with state USDA-APHIS PPQ staff, Indiana Department of Natural Resources, and Purdue University on Exotic Woodborer/Bark Beetle, Nursery and Retail Plant surveys, and other surveys. Responsibilities include taxonomic prescreening of several thousand samples covering many taxa and includes uploading the results. The SSC takes advantage of outreach opportunities. The SSC maintains a website, Indiana's Most Unwanted Invasive Plant Pests < <https://extension.entm.purdue.edu/CAPS/>>.

Accomplishments

Objective 1. Maintain a State Cooperative Agricultural Pest Survey Committee that will meet at least once a year to discuss fostering goals of CAPS.

1a. State CAPS Primary Committee:

Cooperative Agreement Representative: Megan Abraham

State Plant Regulatory Official (SPRO): Indiana Department of Natural Resources
Division of Entomology and Plant Pathology
402 West Washington, Room W-290
Indianapolis, Indiana 46204

State Plant Health Director (SPHD): Gary Simon
USDA APHIS PPQ
1305 Cumberland Ave, Suite 102
West Lafayette, Indiana 47906

Department of Entomology Dr. Steve Yaninek
901 West State Street
West Lafayette, Indiana 47907

State Survey Coordinator (SSC): Larry W. Bledsoe
Purdue University, Department of Entomology
901 West State Street
West Lafayette, Indiana 47907

1b. CAPS advisory committee

Name	Organization	Discipline
Nick Barc	USDA-APHIS	Pest Survey Specialist MI/IN
Bruce Bordelon	Purdue University	Horticulture
Tom Creswell	Purdue University	Plant Disease Diagnostics
Dr. Peter Hirst	Purdue University	Horticulture
Dr. Jeffery Holland	Purdue University	Entomology, Forest Landscape Ecol.
Cindy Music	Purdue University	National Ag Pest Information Sys
Dr. Chris Oseto	Purdue University	Entomology/Identification
Gail Ruhl	Purdue University	Plant Disease Diagnostics
Dr. Cliff Sadof	Purdue University	Ornamental Pests/Identification
Dawn Slack	The Nature Conservancy	Plant Ecology/Identification
Dr. Robert Waltz	Purdue University	Indiana State Chemist

1c. Committee Meetings:

27 June 2017. Full committee: Meeting purpose was 2016 program review and 2017 infrastructure and survey planning.

Objective 2. Have representation at National and/or Regional annual meetings.

2a. SSC attended the Central Plant Board Annual Meeting, Indianapolis, IN (17-19 April 2017).

Objective 3. Utilize Cooperator and APHIS program funding, as outlined in the Financial Plan within the authorized parameters to support survey activities.

3a. Surveys completed (pest detection funds). Planning/logistics, deployment, monitoring for; 1. Soybean Commodity (six counties), 2. Corn Commodity (state-wide), 3. Nursery and Retail Plants (state-wide), and 4. Exotic Wood Borers/Bark Beetles (statewide). See data in survey report.

Objective 4. Cooperate with collaborating agencies carrying out field surveys, trapping, and data collection, setting emphasis on pest/diseases that may pose an immediate risk to agriculture. SSC coded and uploaded additional Indiana collaborator information.

	Counties	Pos	Neg	Total
4a. Emerald Ash Borer, <i>Agrilus planipennis</i>	3	4	0	4
4b. Karnal Bunt, <i>Tilletia indica</i>	23	0	29	29
4c. National Honey Bee Survey 2016/2017	14	122	310	432
4d. Khapra Beetle, <i>Trogoderma granarium</i>	2	0	12	12
4e. Gypsy Moth, <i>Lymantria dispar</i>	89	1413	10,073	11,486

Objective 5. Take advantage of outreach opportunities.

- 5a. SSC provided 12 programs to Indiana Master Gardener/Master Naturalist/public meetings in which invasive species were discussed.

Activities:

Committee Service:

Indiana Invasive Species Council (participant/secretary). 2 Feb, 5 May.
 Invasive Plant Advisory Committee. 23 Mar-conf call, 21 Apr, 8 Sept.
 Tri-State Certified Crop Consult. annual meeting planning. 14 Apr, 23 Jun.
 Purdue Entomology Department Safety committee. 2 Mar, 23 Feb.

Outreach and Education:

- **Interviews (TV/Radio/Newspaper/Magazines):**
- **Outreach materials (Pamphlets/ brochures/ posters):**
- **Publications:**
- **Public service announcements (PSA):**
- **Website Views:** 6,099
- **Invited presentations:** Twelve Master Gardener/Master Naturalist/public programs where invasive species topics were presented.

Meetings:

- **Conference calls:** Monthly CAPS updates with Indiana Natural Resources personnel; 8 January, 8 February, 18 April, 13 June, 11 July, 9 August, 12 September, 14 November. PPQ EWB collaborators; 4 February, 31 October; SSC updates, 10 February, 19 July, 12 December
- **Conferences:** Tristate Crop Consultants Annual Conference, 13-14 December.
- **Webinars**

Training: State coordinator self-study: taxonomic prescreening of bark beetles (Scolytinae) and endemic leafhoppers, workshop on CAPS target noctuid moths (Noctuidae) and micro-dissection techniques at the Central Plant Board SSC breakout session, Indianapolis IN, 18 April.

Other: CAPS web site review, update and development

If appropriate, explain why objectives were not met.* All objectives and pest detection surveys were completed.

Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000.* There were no cost overruns.

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)

Date: _____

Gary W. Simon (ADODR)

Date: _____