

Indiana Cooperative Agricultural Pest Survey (CAPS) Semi-Annual Report for 2005

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Name	Organization	Discipline
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Dr. Robert Waltz, SPRO	IN Dept. Natural Resources	Entomology/ Regulatory Science
Gary Simon, SPHD	USDA APHIS PPQ	Regulatory Science
Dr. Steve Yaninek	Purdue University	Biological Control/ Invasive Species
Phil Marshall	IN Dept. Natural Resources	Forest Health
Cloyce Hedge	IN Dept. Natural Resources	Plant Ecology/ Identification
Ellen Jacquart	The Nature Conservancy and IPSAWG	Plant Ecology/ Identification
James Carroll	USDA APHIS PPQ	Forest Health
Jim Pheasant	CERIS	NAPIS
Gail Ruhl	Purdue University	Plant Disease Diagnostics
Dr. Karen Rane	Purdue University	Plant Pathology
Dr. Cliff Sadof	Purdue University	Ornamental Pests/ Identification
Dr. Chris Oseto	Purdue University	Entomology/ Identification
Dr. Ray Martyn	Purdue University	Botany/ Plant Pathology
Dr. Peter Hirst	Purdue University	Horticulture
Steve Cain	Purdue University, E.D.E.N.	Disaster Education & Outreach
Jodie Ellis	Purdue University	Entomology/ Outreach Education

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January Accomplishments:

- In January, I began to purchase supplies for the upcoming FY 2005 surveys.
- In January, I began compiling information and writing the FY 2004 Annual Accomplishment Report.
- I continued to work on the development of the Indiana CAPS website.
- In conjunction with Dr. Robert Waltz (IDNR) and Dr. Tim Gibb (Purdue Entomology), we began producing an article for the Indiana Academy of Science entitled: Insects and other Arthropods of Economic Importance in Indiana in 2004.
- I wrote an article for the Department of Entomology winter alumni newsletter entitled: Invasive Pests 2004 (<http://www.entm.purdue.edu/Entomology/news/ean/feb05.html>).
- In conjunction with Dr. Cliff Sadof and Jodie Ellis (Purdue Entomology) we developed and submitted an application for a Narrative Work Plan for Educating Citizens about Exotic Solid Wood Packing Pests to USDA APHIS PPQ.
- I was invited to give a presentation to the Professional Landscape Management School titled: Insect Invaders. This talk focused on invasive Cerambycidae, Buprestidae, and Scolytidae that are of concern to Landscapers in Indiana.
- I met with USDA APHIS PPQ cooperators to review the 2004 SWPM surveys and discuss the 2005 SWPM surveys. We also discussed ways to improve identification of samples collected during the FY 2005 survey. After this meeting, I continued, with the help of my intern, to develop more taxonomic information, keys, and reference materials for individuals participating in the SWPM survey as well as the Indiana Department of Natural Resources Nursery Inspectors.
- I attended the Central Plant Board Meeting in Indianapolis, Indiana.

Month	Date	Task
	Wednesday, 26 th	Professional Landscape Management School, Evansville, Indiana
	Thursday, 27 th	Presentation at Professional Landscape Management School, Evansville titled: Indiana on Insect Invaders
	Friday, 28 th	Indiana "Hotzone Survey" meeting with USDA APHIS PPQ cooperators, Indianapolis, Indiana
	Monday, 31 st	Central Plant Board Meeting, Indianapolis, Indiana

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February Accomplishments:

- I attended the Central Plant Board Meeting in Indianapolis, Indiana.
- I attended the USDA-hosted Soybean Rust meeting in Indianapolis, Indiana.
- I began to purchase supplies and contacting sites to participate in the upcoming FY 2005 SWPM survey.
- I continued to compile information and write the FY 2004 Annual Accomplishment Report.
- I continued to work on the development of the Indiana CAPS website.
- I attended meetings for the Invasive Plant Species Assessment Working Group and the Indiana Exotic Forest Pests Advisory Committee in Indianapolis, Indiana.
- In conjunction with Dr. Robert Waltz (IDNR) and Dr. Tim Gibb (Purdue Entomology), we continued to produce the article for the Indiana Academy of Science entitled: Insects and other Arthropods of Economic Importance in Indiana in 2004.
- I continued, with the help of my intern, to develop more taxonomic information, keys, and reference materials for individuals participating in the SWPM survey as well as the Indiana Department of Natural Resources Nursery Inspectors.

Month	Date	Task
February	Tuesday, 1 st	Central Plant Board Meeting, Indianapolis, Indiana
	Wednesday, 2 nd	Central Plant Board Meeting, Indianapolis, Indiana
	Thursday, 3 rd	Central Plant Board Meeting, Indianapolis, Indiana
		Gave presentation to Hoosier Association of Science Teachers Inc. (HASTI) Conference in Indianapolis, Indiana titled: An update of invasive species in Indiana.
	Friday, 4 th	APHIS-hosted Soybean Rust Meeting, Indianapolis, Indiana
	Tuesday, 8 th	IPSAWG (Invasive Plant Species Assessment Working Group) Meeting (9:00-12:00) at the NRCS office in Indianapolis, Indiana.
	Friday, 11 th	Indiana Exotic Forest Pests Advisory Committee Meeting (1:00-4:00 PM) at the Forestry Conference Center at the Indiana Government Center in Indianapolis, Indiana.

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March Accomplishments:

- I attended the Central Plant Board Meeting in Indianapolis, Indiana.
- I attended the USDA-hosted Soybean Rust meeting in Indianapolis, Indiana.
- I began to deploy traps at sites participating in the FY 2005 SWPM survey.
- I submitted the FY 2004 Annual Accomplishment Report.
- I continued to work on the development of the Indiana CAPS website.
- I submitted the article for the Indiana Academy of Science entitled: Insects and other Arthropods of Economic Importance in Indiana in 2004.
- I continued, with the help of my intern, to develop more taxonomic information, keys, and reference materials for individuals participating in the SWPM survey as well as the Indiana Department of Natural Resources Nursery Inspectors and USDA APHIS PPQ Officers.
- I took part in the USDA Forest Service: Early Detection Rapid Response (EDRR) Bark Beetle Identification Course held at Cornell University in Ithaca New York. Information from this meeting was subsequently copied, compiled, and distributed to USDA APHIS PPQ inspectors and Indiana Department of Natural Resources Nursery Inspectors.
- I began sampling at our SWPM sites in Indiana and began the task of sorting through samples.
- I met the James Carroll, USDA APHIS PPQ Inspector in charge of the Indiana SWPM survey, about adding another site to the survey in FY 2005.
- In talks with Phil Marshall, Indiana Department of Natural Resources Division of Forestry, and Manfred Milke, USDA Forest Service, about Indiana participating in the USDA Forest Service Sudden Oak Death Background Survey for FY 2005.

Month	Date	Task
March	Monday, 14 th	Deployed Traps for SWPM Survey
	Tuesday, 15 th	Deployed Traps for SWPM Survey
	Wednesday, 16 th	Deployed Traps for SWPM Survey
	Friday, 18 th	Deployed Traps for SWPM Survey
	Wednesday, 23 rd	USDA Forest Service: Early Detection Rapid Response (EDRR) Bark Beetle Identification Course, Cornell University, Ithaca NY
	Thursday, 24 th	USDA Forest Service: Early Detection Rapid Response (EDRR) Bark Beetle Identification Course, Cornell University, Ithaca NY
	Friday, 25 th	USDA Forest Service: Early Detection Rapid Response (EDRR) Bark Beetle Identification Course, Cornell University, Ithaca NY
	Monday, 28 th	Surveyed SWPM traps
	Tuesday, 29 th	Surveyed SWPM traps
	Wednesday, 30 th	James Carroll USDA APHIS PPQ meeting on campus to discuss a potential SWPM site near West Lafayette, Indiana

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April Accomplishments:

- I continued to work on the development of the Indiana CAPS website.
- I continued to survey, sort through, and identify samples from the SWPM survey.
- I continued, with the help of my intern, to develop more taxonomic information, keys, and reference materials for individuals participating in the SWPM survey as well as the Indiana Department of Natural Resources Nursery Inspectors and USDA APHIS PPQ Officers.
- Continued talks with Phil Marshall, Indiana Department of Natural Resources Division of Forestry, and Manfred Milke, USDA Forest Service, about Indiana participating in the USDA Forest Service Sudden Oak Death Background Survey for FY 2005.
- I attended the Indiana Exotic Forest Pests Advisory Committee Meeting (1:00-4:00 PM) at the Forestry Conference Center at the Indiana Government Center in Indianapolis, Indiana.
- I attended the IPSAWG (Invasive Plant Species Assessment Working Group) Meeting (9:00-12:00) at the NRCS office in Indianapolis, Indiana.

Month	Date	Task
April	Monday, 11 th	Surveyed SWPM traps
	Tuesday, 12 th	Surveyed SWPM traps
	Thursday, 14 th	Indiana Exotic Forest Pests Advisory Committee Meeting (1:00-4:00 PM) at the Forestry Conference Center at the Indiana Government Center in Indianapolis, Indiana.
	Wednesday, 20 th	IPSAWG (Invasive Plant Species Assessment Working Group) Meeting (9:00-12:00) at the NRCS office in Indianapolis, Indiana.
	Monday, 25 th	Surveyed SWPM traps
	Tuesday, 26 th	Surveyed SWPM traps

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May Accomplishments:

- I coordinated and lead the Indiana CAPS State Survey Committee Meeting (9:00-12:00am), 129 Ag Admin Building at Purdue University.
- I continued to work on the development of the Indiana CAPS website.
- I continued to survey, sort through, and identify samples from the SWPM survey.
- I continued, with the help of my intern, to develop more taxonomic information, keys, and reference materials for individuals participating in the SWPM survey as well as the Indiana Department of Natural Resources Nursery Inspectors and USDA APHIS PPQ Officers.
- Continued talks with Phil Marshall, Indiana Department of Natural Resources Division of Forestry, and Manfred Milke, USDA Forest Service, about Indiana participating in the USDA Forest Service Sudden Oak Death Background Survey for FY 2005.

Month	Date	Task
May	Thursday, 5 th	Indiana CAPS Committee Meeting (9:00-12:00am), 129 Ag Admin Building, Purdue University
	Monday, 9 th	Surveyed SWPM traps
	Tuesday, 10 th	Surveyed SWPM traps
	Monday, 23 rd	Surveyed SWPM traps
	Wednesday, 25 th	Surveyed SWPM traps

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June Accomplishments:

- I coordinated and lead the Indiana CAPS State Survey Committee Meeting on June 8th, (9:00-12:00am), 104 Smith Hall at Purdue University.
- I gave a lecture on invasive species on Friday, June 10 at the Entomology Workshop in the Department of Entomology at Purdue University.
- I attended the IPSAWG (Invasive Plant Species Assessment Working Group) Meeting (9:00-12:00) at the NRCS office in Indianapolis, Indiana on June 15th.
- I began working on the Semi-Annual Report for FY 2005.
- I continued to work on the development of the Indiana CAPS website.
- I continued to survey, sort through, and identify samples from the SWPM survey.
- I continued, with the help of my intern, to develop more taxonomic information, keys, and reference materials for individuals participating in the SWPM survey as well as the Indiana Department of Natural Resources Nursery Inspectors and USDA APHIS PPQ Officers.

Month	Date	Task
June	Monday, 6 th	Indiana CAPS Committee Meeting (9:00-12:00am), 129 Ag Admin Building, Purdue University
	Tuesday, 7 th	Surveyed SWPM traps
	Wednesday, 8 th	Indiana CAPS Committee Meeting (9:00-12:00am), 104 Smith Hall, Purdue University
	Friday, 10 th	Gave lecture on invasive species at the Entomology Workshop (9:00-10:30 am) in the Department of Entomology at Purdue University
	Wednesday, 15 th	IPSAWG (Invasive Plant Species Assessment Working Group) Meeting (9:00-12:00) at the NRCS office in Indianapolis, Indiana.
	Monday, 20 th	Surveyed SWPM traps
	Tuesday, 21 st	Surveyed SWPM traps

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Indiana CAPS State Survey Committee Meeting Minutes (May 4, 2005)

Attendees: Christopher Pierce
Steven Yaninek
Bob Waltz, SPRO
Gary Simon, SPHD
Gail Ruhl
Karen Rane
Ellen Jacquart
Jodie Ellis
Cliff Sadof
Kay Hagen for Steve Cain
Phil Marshall

New members: Ellen Jacquart, TNC and IPSAWG Chair
Jodie Ellis, Outreach Education Entomology
Steve Cain, E.D.E.N.

2004 review:

1. EAB
2. SOD and Ralstonia
3. Hit Zone Survey
 - * In 2004, first report of Banded elm bark beetle in Bloomington, IN
 - * At this time, we are furthest eastern state
4. Kudzu and Giant hogweed
 - * 76 acres of Kudzu in Indiana
5. Aquatic invasive plants
6. Giant African Land Snail

2005 surveys and activities:

- EAB
- SOD
- Hot Zone Survey
- Old worm bollworm
- Ralstonia
- Kudzu
- Gypsy moth
- Karnal bunt
- Pine shoot beetle

FY 2006 Budget and Surveys:

- There will be separate line-item for money for soybean rust by 2006
- Have only received 4 Mini Risk Assessments for the 35 pests on the National CAPS list

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for FY 2006

- **Karen Rane:** What does have separate line item monies? Can we find this out in writing? This will impact Soybean Rust and SOD. The policy has changed for how they will do surveys this year.
- **Bob W.:** APHIS is going through a lot with their budgets; they have indicated that Soybean Rust and SOD will not be included as line items. EAB is being considered but because the focus is regional, it doesn't look good. Even with line-item approval, you may not see \$\$\$ until later the next year.
- **Karen:** How can we make plans and proposals without knowing what APHIS is going to do? There are important pathogens on the list.
- The pest list will now be used for 2 years: We are to focus on the top 6 pests in the CAPS list.
- **Gary Simon:** What is the role of outreach and education in Giant African Land Snail? Are we supposed to go into pet stores or what for survey? They can't survive here. This only makes sense in the Southern States.
- **Robert Waltz:** I agree. I am not sure what CPHIS is recommending.
- British Root-knot can't survive here, so it is a moot point.
- How are we going to survey for *Agrilus biguttatus*? In collections?
- **Christopher Pierce** suggests that the focus be on Giant African Land Snail. May be able to survey Siberian Silk Moth at the ports while surveying for Gypsy moth.
- **Jim Pheasant.** These 6 pests came from a ranking process from CPHIS based on a number of factors from input on various experts. Also, the commodities being attacked and human health factors. The future goal is to go to a more commodity based survey. CPHIS wasn't ready to give support to Soybean Rust, etc., based on this list. We need something to show Congress for a product so this list may be a good way to proceed.
- **Steve Yaninek to Robert Waltz:** Is most of your input to APHIS from the Plant Board.
- **Robert Waltz:** It depends on the issue...
- **Robert Waltz:** I think we should focus more on a regional approach that is more commodity-focused that enhances ability to export. Bill Kaufman will be at the Eastern CAPS regional meeting to talk about the regionalization of surveys.
- **Christopher Pierce:** For species under #6 on the National List, there are no risk assessments and many have not been surveyed for. There are new pests on this list that could be placed in the Hot Zone (SWPM) survey.
- **Christopher Pierce:** When I talked to WI CAPS, they do a fruit program. Their CAPS coordinator is through the Dept of Ag so the survey is coordinated with other surveys through Ag people. Their Dept of Ag works closely with growers. If you piggy-back with existing programs, you will get a lot farther. Should we work with Christian, for example? Plant pathology? Weed science? They are doing this in Iowa. Iowa State, the Iowa Department of Agriculture, and CAPS share the load and look at endemics and exotics all at the same time. Since we are working with Forest Service, we can do a more expansive survey and include things we aren't currently doing.
- **Bob Waltz** says he can get some info on some of the insect groups on his desk that he

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can share. There is the classic issue of regulatory issues. We try to keep regulation separate from extension issues?

- **Jim Pheasant:** The President's budget is \$45 million at this time. Last year CAPS got the basic core plus \$25K.

FY 2006 Indiana Invasive Species Pest List:

- **Christopher Pierce:** Next topic: Updating FY 2005 list for 2006.
 - Please start submitting ideas for this list. Ellen should send information on invasive plants. Let us know what should be added or removed.
 - The list has been sent to the Extension folks for their input.
 - Suggested species are added as they are noted because they are important to at least one group. At this time, none are screened out. We can go over this at the next meeting.
 - **Steve Yaninek** says that this is not useful – it is just an inventory list. We need to focus and sort this out. Be somewhat subjective and create a focus.
 - **Christopher Pierce** stated that this is where a top 10 list comes in. However, to create a list of top ten invasive pests, it will continually be edited depending upon the next threat as well as the yearly pest lists.
 - **Ellen Jacquart:** Is there a set list of criteria within CAPS used to select things on the list? Do we focus on things that are just coming in?
 - **Christopher Pierce:** Yes, we focus on new things but old things that are very important (garlic mustard) are included.
 - **Karen Rane:** We need the criteria list so we can know how to approach this. How is the list defined?
 - **Gail Ruhl:** Do we prioritize according to subgroups? This might be a good way to do this.
 - **Robert Waltz:** This seems a good approach and worthy of discussion. From a regulatory standpoint, AAB and BEBB are not an issue, but they are an issue in other arenas (extension, etc).
 - **Karen Rane:** Searchable Categories: Stakeholders, commodities, state regulatory agents, industry, grower groups, pathways
 - **Phil Marshall:** Risk issues – primary and secondary. This category will be dynamic from year to year. We need a matrix of all these things to come up with a top ten list.
 - **Jim Pheasant:** This has strong similarities to what they are trying to do at the national level. There is a lot of thought going on along these lines. You can see Eastern/Western differences and sometimes there isn't agreement, but there is dialog. Risk is a factor that is considered (risk of introduction, risk of establishment)
 - **Ellen Jacquart:** What about the non-commodity? What about natural areas?
 - **Jim Pheasant:** There are some categories in place that address this ("Natural Resources").
 - **Phil Marshall:** Habitat is a commodity. Right now, forestry is producing risk maps for Congress on where the forests are at risk of dying. We set up multi-

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- criteria: they are using GIS systems, etc. A similar group to this one developed the criteria used for these maps.
- **Christopher Pierce:** Are we going to have enough time to develop the criteria for submission by July 1? Let us begin to update Indiana's state invasive pest list. At the same time, develop the top ten list.
 - **Robert Waltz:** Let's do the top 3 insects, the top 3 weeds, etc. to keep the system balanced.
 - **Cliff Sadof:** So everybody ranks their taxa and then we take the top 3 of our target group?
 - **Robert Waltz:** Yes. In the interim this buys us a lot of credibility by demonstrating a lot of diversity in the group.
 - **Steve Yaninek:** Bio-crossroads report identifies Ag commodities. Suburban areas deserve to be a category too. Hardwood forests are the top commodity. (Request for Steve Yaninek to send this to the group).

Indiana CAPS Website:

- **Christopher Pierce:** The new website.
- We need committee input. The site is in the development phase.
- We will have links to State, University, and Federal sites.
- Can put meeting minutes here and links about Invasive Species.
- Chris would like to create a list of all agencies that work on invasive species for reference on the web. It will enhance the CAPS community and give people an idea of what is going on in the state of Indiana. He will maintain the website.
- **Cliff Sadof:** How does this relate to the IDNR invasive species website? How does it differ?
- **Christopher Pierce:** The CAPS site is a clearing house for info on what the state is doing and will provide information on pests and state surveys.
- **Steve Yaninek:** Be careful about being redundant. Work with Extension people on the web design: Example: pest alerts should be on the top page. This will be a place for the Annual Report. Coordinate with other sites.
- **Christopher Pierce:** This is a supplementary site to enhance other sites within the state (i.e. IDNR, IPSAWG, etc.).
- **Ellen Jacquart:** Is there a set list of criteria within CAPS used to select things on the list? Do we focus on things that are just coming in?
- **Christopher Pierce:** Yes, we focus on new things but old things that are very important (garlic mustard) are included.
- **Karen Rane:** We need the criteria list so we can know how to approach this. How is the list defined?
- **Gail Ruhl:** Do we prioritize according to subgroups? This might be a good way to do this.
- **Robert Waltz:** This seems a good approach and worthy of discussion. From a regulatory standpoint, AAB and BEBB are not an issue, but they are an issue in other arenas (extension, etc).
- **Karen Rane:** Searchable Categories: Stakeholders, commodities, state regulatory

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- agents, industry, grower groups, pathways
 - **Phil Marshall:** Risk issues – primary and secondary. This category will be dynamic from year to year. We need a matrix of all these things to come up with a top ten list.
 - **Jim Pheasant:** This has strong similarities to what they are trying to do at the national level. There is a lot of thought going on along these lines. You can see Eastern/Western differences and sometimes there isn't agreement, but there is dialog. Risk is a factor that is considered (risk of introduction, risk of establishment)
 - **Ellen Jacquart:** What about the non-commodity? What about natural areas?
 - **Jim Pheasant:** There are some categories in place that address this ("Natural Resources").
 - **Phil Marshall:** Habitat is a commodity. Right now, forestry is producing risk maps for Congress on where the forests are at risk of dying. We set up multi-criteria: they are using GIS systems, etc. A similar group to this one developed the criteria used for these maps.
 - **Christopher Pierce:** Are we going to have enough time to develop the criteria for submission by July 1? Let us begin to update Indiana's state invasive pest list. At the same time, develop the top ten list.
 - **Robert Waltz:** Let's do the top 3 insects, the top 3 weeds, etc. to keep the system balanced.
 - **Cliff Sadof:** So everybody ranks their taxa and then we take the top 3 of our target group?
 - **Robert Waltz:** Yes. In the interim this buys us a lot of credibility by demonstrating a lot of diversity in the group.
 - **Steve Yaninek:** Bio-crossroads report identifies Ag commodities. Suburban areas deserve to be a category too. Hardwood forests are the top commodity. (Request for Steve Yaninek to send this to the group).
 - **Christopher Pierce:** Should we have pest alerts for Indiana
 - **Robert Waltz:** We have some for IPSAWG, etc. but they are regionally focused. There are some on the Invasive species site.
 - **Phil Marshall:** Forest Health Protection in St. Paul will have some pest alerts.
 - **Christopher Pierce:** We could put pop-ups on the website. Please send me more info.
 - **The Next Meeting: early or mid-June?**
 - Meet to finalize the budget for 2006.
 - This will be the request for surveys for the FY2006 budget.
 - Remember, added features on taxonomic support in the work plans – this is new.
 - **Next meeting date: Wednesday, June 8th, 9:00 AM till noon in Room 104 Smith Hall.**
 - Bring your proposals to the table to go over. We will then submit the changes.
-

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Indiana CAPS State Survey Committee Meeting Minutes (June 8, 2005)

1. Call meeting to order/ Attendance

- Christopher Pierce
- Steven Yaninek
- Bob Waltz, SPRO
- Gary Simon, SPHD
- Karen Rane
- Cliff Sadof
- Phil Marshall

2. FY 2006 Survey Core II Proposals (Due July 1st, 2005)

a. Core I Pest Surveys

Agilus biguttatus (Fabricius), Oak splendour beetle
Cynanchum louiseae Kartesz & Gandhi, Black swallow-wart
Monochamus sutor Linnaeus, Small white-marmorated longhorned beetle
Platypus quercivorus (Murayama), Oak ambrosia beetle
Scolytus schevyrewi Semenov, Banded elm bark beetle
Tomicus destruens (Wollaston), Pine shoot beetle
Xylella fastidiosa Wells et al., Bacterial leaf scorch
Xylosandrus crassiusculus (Motschulsky), Asian ambrosia beetle

b. Core II Pest Surveys

Giant African Land Snail Education and Outreach	Amount: \$1,000.00
• State Survey Coordinator	
Hot Zone (Exotic invasive bark and wood boring beetles) survey	Amount: \$10,000.00
• State Survey Coordinator and James Carroll	
Old world bollworm survey	Amount: \$2,500.00
• State Survey Coordinator	
Sudden oak death survey	Amount: \$11,500.00
• State Survey Coordinator, Karen Rane, and Gail Ruhl	

c. Core III Pest Surveys

Gypsy moth, *Lymantria dispar* Linnaeus, program includes Indiana Department of Natural Resources – Divisions of Forestry and Entomology & Plant Pathology, USDA APHIS PPQ, and USDA Forest Service, and Department of Interior. Data is geo-referenced and submitted to US Forest Service as part of the Gypsy Moth Slow the Spread National Database. USDA APHIS PPQ will also set traps for the Asian Gypsy moth, *Lymantria dispar* ssp., the Siberian silk moth, *Dendrolimus superans sibiricus* Tschetverikov, and the Russian (pink) Gypsy moth, *Lymantria mathura* Moore, in northern Indiana.

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Pine shoot beetle survey is operated primarily by USDA APHIS PPQ. Indiana DNR handles the State quarantine compliance and monitors nurseries and production areas.

Hot Zone survey is coordinated by USDA APHIS PPQ and the Indiana CAPS SSC. Indiana DNR takes non-targets and hires pinners and assistant curators at Purdue University to prepare and alpha-screen material. Purdue University plays a critical role in overseeing the curation and coordination of the specimens and identifier contacts. Indiana DNR contracts with professional beetle identifiers to provide identifications of materials collected. Beetles targeted will also include, *Agrius biguttatus* (Fabricius), Oak splendour beetle, *Monochamus sutor* Linnaeus, Small white-marmorated longhorned beetle, *Platypus quercivorus* (Murayama), Oak ambrosia beetle, *Scolytus schevyrewi* Semenov, Banded elm bark beetle, *Tomicus destruens* (Wollaston), Pine shoot beetle, and *Xylosandrus crassiusculus* (Motschulsky), Asian ambrosia beetle.

Indiana DNR conducts surveys for non-target species in possible gypsy moth treatment areas in compliance with the National Environmental Policy Act (N.E.P.A.). Indiana DNR is studying beetle populations in old growth forests through collaborative efforts at Ball State University. These activities resulted in excess of an estimated 1 million insect specimens in 2002 alone. IPSAWG, Invasive Plant Species Assessment Working Group, is conducting surveys throughout the state for invasive weed species including exotic weeds by utilizing approximately 70 *bona fide* plant survey volunteers who are competent botanists. Invasive weed species data is being acquired and entered into NAPIS.

Division of Forestry, Division of Entomology & Plant Pathology, and USDA APHIS PPQ are cooperatively conducting surveys for emerald ash borer. Purdue University will be producing insect identification kits and training videos for educational outreach.

USDA APHIS PPQ will draw and submit samples for karnal bunt testing of wheat samples gathered according to USDA guidelines as part of the ongoing National Karnal bunt survey.

Indiana Department of Natural Resources, Division of Nature Preserves, will conduct a state-wide survey for *Heracleum mantegazzianum* Sommier & Levier, Giant Hogweed.

Emergency detection and monitoring of other new exotic pests and diseases may arise during the course of the fiscal year.

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3. Pest List

- a. We updated the FY 2005 Invasive Species of concern to Indiana. We chose not to develop a Top 10 list on Invasive species. We decided to create a list of “Unwanted invasive pests” for the state of Indiana.

4. Website

- a. Suggestions and comments are still being accepted. Target date of August 31, for the website to up and running.

5. Adjourn

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NAPIS Data Entry from January 1, 2005 through June 30, 2005 for the state of Indiana.

Target Pest	Counties	Sites* Plants	Traps	Positives	Negatives
SUDDEN OAK DEATH VISUAL PHYTOPHTHORA RAMORUM GENERAL NURSERY INSPECTION	1	1	0	1	
SUDDEN OAK DEATH TISSUE SAMPLING PHYTOPHTHORA RAMORUM P RAMORUM USDA TRACE (FORWARD/BACK)	2	45	0	45	
EUROPEAN RED MITE CONSENSUS PANONYCHUS ULMI SCIENTIFIC CONSENSUS/GENERAL AGREEMENT	92	92	92	0	
EMERALD ASH BORER VISUAL AGRILUS PLANIPENNIS EMERALD ASH BORER SURVEY	1	6	6	0	
CEREAL LEAF BEETLE (CLB) CONSENSUS OULEMA MELANOPUS SCIENTIFIC CONSENSUS/GENERAL AGREEMENT	92	92	92	0	
JAPANESE BEETLE (JB) CONSENSUS POPILLIA JAPONICA SCIENTIFIC CONSENSUS/GENERAL AGREEMENT	92	92	92	0	
SMALLER EUR. ELM BARK BEETLE CONSENSUS SCOLYTUS MULTISTRIATUS SCIENTIFIC CONSENSUS/GENERAL AGREEMENT	92	92	92	0	
PINE SHOOT BEETLE (PSB) TRAP TOMICUS PINIPERDA TRAP;LINDGREN	1	1	1	0	

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PINE SHOOT BEETLE (PSB)	65	65	65	0
CONSENSUS				
TOMICUS PINIPERDA				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
HESSIAN FLY	92	92	92	0
CONSENSUS				
MAYETIOLA DESTRUCTOR				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
APPLE MAGGOT (AM)	92	92	92	0
CONSENSUS				
RHAGOLETIS POMONELLA				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
SPOTTED ALFALFA APHID	92	92	92	0
CONSENSUS				
THERIOAPHIS MACULATUS				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
SOYBEAN (SOYA BEAN) APHID	92	92	92	0
CONSENSUS				
APHIS GLYCINES				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
POTATO LEAFHOPPER	92	92	92	0
CONSENSUS				
EMPOASCA FABAE				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
SAN JOSE SCALE (SJS)	92	92	92	0
CONSENSUS				
QUADRASPIDIOTUS PERNICIOSUS				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
PEAR PSYLLA	92	92	92	0
CONSENSUS				
CACOPSYLLA PYRICOLA				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
GYPSY MOTH (EUROPEAN)(GM)	7	7	7	0
CONSENSUS				
LYMANTRIA DISPAR				

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SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
BOLLWORM;CORN EARWORM;(BW-CEW)	92	92	92	0
CONSENSUS				
HELCOVERPA ZEA (TOMATO FRUITWORM;PODW)				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
FALL ARMYWORM (FAW)	92	92	92	0
CONSENSUS				
SPODOPTERA FRUGIPERDA				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
EUROPEAN CORN BORER (ECB)	92	92	92	0
CONSENSUS				
OSTRINIA NUBILALIS				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
EUROPEAN PINE SHOOT MOTH(EPSM)	92	92	92	0
CONSENSUS				
RHYACIONIA BOULIANA				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
SOYBEAN CYST NEMATODE (SCN)	81	81	81	0
CONSENSUS				
HETERODERA GLYCINES				
SCIENTIFIC CONSENSUS/GENERAL AGREEMENT				
KUDZU	12	15	15	0
VISUAL				
PUERARIA LOBATA				
WEED SURVEY GENERAL;INF. AREA				