

## Farm Bill Survey Work Plan - Fiscal Year 2012

<b>Cooperator:</b>	<b>Oklahoma Department of Agriculture Food and Forestry</b>		
<b>State:</b>	Oklahoma		
<b>Project:</b>	Walnut Twig Borer/Thousand Cankers Disease Survey - OK		
<b>Project funding source:</b>	Farm Bill Survey <input checked="" type="checkbox"/>		
<b>Project Coordinator:</b>	Barbara Fuson		
<b>Agreement Number</b>	1.0014.00		
<b>Contact Information:</b>	<b>Address:</b>	2800 North Lincoln Boulevard	
	<b>Phone:</b>	405-521-2699	<b>Fax:</b> 405-522-4584
	<b>Email Address:</b>	barbara.fuson@ag.ok.gov	

This Work Plan reflects a cooperative relationship between the Oklahoma Department of Agriculture Food and Forestry (the Cooperator) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting a Walnut Twig Borer/Thousand Cankers Disease Survey and the related roles and responsibilities of the parties [e.g., mutual roles, APHIS role(s), Cooperator role(s)] as negotiated.

### I) OBJECTIVES AND NEED FOR ASSISTANCE

What relevant need or problem within the cooperator's mission area requires a solution in carrying out a public purpose of support or stimulation authorized by a law of the United States? How does the need or problem align with the mission area and strategic goals of APHIS?

*Oklahoma forests have over 13 million merchantable live black walnut trees and an estimated total population of over 20 million black walnut trees according to the USDA Forest Service's Forest Inventory and Analysis National Program*

*This survey has great regional and national value. Documentation of the regional and national range of this beetle is necessary to satisfy state quarantines for thousand cankers disease.*

### II) RESULTS OR BENEFITS EXPECTED

**The Cooperator seeks to conduct a program which is expected to result in:**

- A. What results or benefits will be derived from the cooperative effort? Use of bulleted Statements is acceptable.

*This suggestion addresses Goal 1. Enhance Analysis and Survey. The walnut twig beetle, *Pityophthorus juglandis*, (pest of state concern) and thousand cankers disease of walnuts has been detected in several states in the western United States and several eastern states, but is not known to occur in Oklahoma. Black walnut is a highly valued tree, both economically and environmentally; it is also highly susceptible to thousand cankers disease. If found in Oklahoma, this disease would threaten native black walnut stands as well as negatively impact black walnut timber, nuts, and nursery production. Oklahoma and several other states have enacted quarantines on the movement of walnut articles. It is critical that the high risk pathways continue to be identified and surveyed. Arkansas, Illinois, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, New York, New Mexico, Ohio, Oklahoma, South Dakota, Tennessee and Wisconsin plan to survey to determine the status of this pest.*

### III) APPROACH

#### **What is the plan of action or approach to the work?**

*The survey will entail trapping at 26 sites, with three traps at each, across the state using four funnel Lindgren traps with a wet cup and lure focusing on areas around saw mills and parks with walnut trees in the area. Traps will use a solution of propylene glycol antifreeze that does not contain any ethanol or ethyl alcohol in the collection cup. Lure will be placed near the internal axis of the funnels to promote even distribution of the pheromone and will be replaced once per month or as needed. These materials will be supplied by APHIS. Trapping is expected to begin the first week of April and continue through June. The traps will be checked and specimens collected every two weeks throughout the survey season.*

*When distressed walnut trees are observed, surveyors will take a sample from the tree at the site of necrosis, or an easily accessible living limb. If present, the fungus can be cultured from dead branches and leaves by the plant disease and diagnostic lab of Oklahoma State University.*

#### **A. The Cooperator and APHIS Mutually Agree to/that:**

1. The cooperator will enter GPS locations of traps, trap service dates, and pest status of samples taken into an APHIS approved database
2. The Cooperator will provide APHIS with a map of trap sites.
3. The Cooperator will provide APHIS with a final report of our findings.

1. **What is the quantitative projection of accomplishments to be achieved?**

- a. By activity or function, what are the anticipated accomplishments by month, quarter, or other specified intervals?

*Traps will be set the first week of April, serviced every two weeks and the last week of June. Samples of suspect walnut twig beetle will be submitted to OSU for identification. The pest status will be recorded in IPHIS.*

- b. What criteria will be used to evaluate the project? What are the anticipated results and successes?

*The project will be evaluated based on the punctuality of traps set and checked, and the number of samples of suspect walnut twig beetle submitted to OSU for identification.*

*The anticipated results will be the early detection of Thousand Cankers disease in Oklahoma.*

- c. What methodology will be used to determine if:

1. Identified needs are met

*Traps will be set on time, accurate GPS coordinates are taken of the traps, and service dates are recorded by field personnel.*

2. Results and benefits are achieved

*Either the early detection of the disease has been made, or we can come to a conclusion that Thousand Cankers disease is absent in Oklahoma.*

- 2. What type of data will be collected and how will it be maintained?**

- a. Address timelines for collection and recording of data.

*Field surveyors will collect data in the field of dates of traps service, GPS coordinates and sample submission.*

- b. How will APHIS be provided access to the data?

*The cooperator will enter data into IPHIS by July 30<sup>th</sup> 2013, at the end of the survey.*

## **B. The Cooperator will:**

- 1. By function, what work is to be accomplished?**

(Cite program standards, action plans, or other program guidelines as a standard for conducting the particular functions for this program, as applicable.)

*The cooperator will set traps in accordance with the Thousand Cankers Disease guidelines set by the Cooperative Agricultural Pest Survey.*

- 2. What resources are required to perform the work?**

*state vehicles*

- 3. What numbers and types of personnel will be needed and what will they be doing?** Tie these needs back to the activities outlined in III.A

*Five field personnel to service traps and the state survey coordinator to provide instruction, collect and enter data.*

- 4. What equipment will be needed to perform the work?** Include major items of equipment with a value of \$5,000 or more.

- a. What equipment will be provided by the cooperator? *Hand tools*
- b. What equipment will be provided by APHIS? *none*
- c. What equipment will be purchased in whole or in part with APHIS funds? *none*
- d. How will the equipment be used? *N/A*
- e. What is the proposed method of disposition of the equipment upon termination of the agreement/project? *N/A*

**5. Identify information technology equipment, e.g., computers, and their ancillary components.** All information technology supplies (e.g., small items of equipment, connectivity through air cards or high speed internet access, GPS units, radios for emergency operations etc.) should be specifically identified.

*GPS units, cell phones, laptops*

**6. What supplies will be needed to perform the work?** Identify individual supplies with a cumulative value of \$5,000 or more as a separate item. \*\*All information technology supplies (e.g., small items of equipment, connectivity through air cards or high speed internet access, GPS units, radios for emergency operations) should be specifically identified above.

- a. What supplies will be provided by the Cooperator?

*Sample bags, anti-freeze, insect repellent, disposable gloves, paper towels, forceps, filters, or other small items as needed.*

- b. What supplies will be provided by APHIS? *none*

- c. What supplies will be purchased in whole or in part with APHIS funds?

*Additional sample bags, anti-freeze, insect repellent, disposable gloves, paper towels, forceps, filters*

- d. How will the supplies be used?

*Collect samples, keep lindgren collection cups wet, repel mosquitos and ticks, etc.*

- e. What is the proposed method of disposition of the supplies with a cumulative value over \$5,000 upon termination of the agreement/project?  
*N/A*

**7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?**  
(Cooperator procurements shall be in accordance with OMB Circulars A-102 or A110, as applicable.)

*The Cooperator will procure a contract with OSU for identification of walnut twig beetle and *Geosmithia morbida*.*

**8. What are the travel needs for the project?**

- a. Is there any local travel to daily work sites? Who is the approving official? What are the methods of payment? Indicate rates and total costs in the Financial Plan.

*There is local travel to work sites approved by the state survey coordinator.*

- b. What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates). Who is the approving official?

*There is no overnight travel required.*

- c. What is the method of payment? Indicate rates and total cost in the Financial Plan.

*Field personnel use fuel man cards to pay for fuel.*

## **9. Reports:**

- a. Submit all reports to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:
  1. Narrative accomplishment reports in the frequency and time frame specified in the Notice of Award, Article 4.
  2. Federal Financial Reports, SF-425 (replaces SF-269 October 1, 2009) in the frequency and time frame specified in the Notice of Award, Article 4.

## **10. Are there any other contributing parties who will be working on the project?**

- a. List Participating Agency/Institution:

*The Departments of Agriculture in Arkansas, Illinois, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, New York, New Mexico, Ohio, Oklahoma, South Dakota, Tennessee and Wisconsin are planning similar surveys. Oklahoma State University will provide diagnostic support for bark beetle samples.*

- b. List all who will work on the project:

*Surrounding State Departments of Agriculture Describe the nature of their effort:*

- c. Contribution:

*Other states will be conducting surveys with CAPS approved methods for walnut twig beetle and Thousand Cankers disease.*

## **C. APHIS Will:**

### **1. Outline the Agency's (USDA APHIS PPQ) substantial involvement.**

1. (a) Include any significant Agency collaboration and participation

*APHIS will provide funds, survey guides, and IPHIS to enter data into.*

1. (b) Project oversight and performance management

*Responsibility for management, control, and direction is shared by the cooperator and APHIS. The cooperator may require guidance and regulatory support in the event the disease is detected.*

**2. What equipment will be needed to perform the work?** Include major items of equipment with a value of \$5,000 or more.

- a. Will Equipment be loaned or provided by APHIS?  Yes  No (If Yes, please list:  
b. How will the equipment be used? *N/A*

#### IV) GEOGRAPHIC LOCATION OF PROJECT

- A. Is the project statewide or in specific counties, townships, and/or national or state parks? (List the names of all counties, townships, and/or national or state parks, and tribal areas that apply)

*The survey will be conducted in Blaine, Caddo, Canadian, Cherokee, Delaware, Muskogee, Sequoyah, Garvin, Murray, Pontotoc and Wagoner Counties.*

- B. What type of terrain (e.g., cropland, rangeland, woodland) will be involved in the project?

*Native walnut stands in state parks, national forests, and right of ways and urban stands in nurseries and city parks will be surveyed.*

- C. Are there any unusual features which may have an impact on the project or activity such as rivers, lakes, wild life sanctuaries, commercial beekeepers etc? (list all that apply)

- D. Identify the kind of data to be collected:

*GPS coordinates, observation dates.*

- E. Establish criteria to evaluate the results and successes of the project:

1. Results: *GPS coordinates of traps in walnut stands will be collected.*
2. Successes: *Maps will be created and data will be entered of each trap's geographic location.*

- F. Methodology used to determine if the results and benefits are achieved:

1. Identified needs are met: *Traps are set in walnut stands*
2. Results and benefits are achieved: *we will be able to either trace back a positive detection, or record a location as absent of the disease and beetle.*

#### V) DATA COLLECTION AND MAINTENANCE

All survey data from cooperative agreements involving pest surveys will be entered into the IPHIS database.

- i) First record for the State and/or County will be entered within **48 hours** of confirmation of identification by a qualified identifier.



**Detailed Survey Financial Plan** (submit with Work Plan)

COOPERATOR NAME: Oklahoma Department of Agriculture Food and Forestry

TIME PERIOD: July 1<sup>st</sup> 2012-June 30<sup>th</sup> 2013

Financial Plan must match the SF-424A, Section B, Budget Categories

ITEM	APHIS FUNDS	COOPERATOR FUNDS (Show even if zero)
<b>PERSONNEL:</b>		
Field Staff: 360 hrs @ \$18.00/hr	\$6,480	
		\$0
Subtotal	\$6,480	\$0
<b>FRINGE BENEFITS:</b>		
28% of salary of Field Staff pt employee	\$ 1,814	\$0
Subtotal	\$ 1,814	\$0
<b>TRAVEL:</b>		
Total of 7,000 miles @ \$0.555/mile	\$ 3,885	\$0
Subtotal	\$ 3885	\$0
<b>EQUIPMENT</b>		
	\$0	\$ 0
		\$0
<b>SUPPLIES</b>		
Gloves, sample bags, anti-freeze, paper towels, etc	\$675	\$0
Subtotal	\$ 675	\$0
<b>CONTRACTUAL</b>		
OSU identification	\$1,500	\$0
Subtotal	\$0	\$0
<b>OTHER</b>	\$0	\$0
Subtotal	\$0	\$0
<b>TOTAL DIRECT COSTS</b>	\$14,354	\$0
<b>INDIRECT COSTS (21.29%)</b>	\$ 2,736	
<b>TOTAL</b>	\$ 17,090	\$0
Cost Share Information	100%	0%