

PPA 7721 Walnut Twig Beetle Work Plan – March 30, 2020 – February 28, 2021

Cooperator:	Kansas Department of Agriculture		
State:	Kansas		
Project:	Walnut Twig Beetle Survey		
Project funding source:	PPA 7721 Goal 1 Survey		
Project Coordinator:	Laurinda Ramonda		
Agreement Number	USDA-APHIS-10025-PPQFO000-20-0165		
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This Work Plan reflects a cooperative relationship between the between the Kansas Department of Agriculture (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 Beetle survey and the related roles and responsibilities of the Kansas Department of Agriculture and USDA-APHIS-PPQ as negotiated.

I) OBJECTIVES AND NEED FOR ASSISTANCE

In the most recent (2009) Timber Product Output Report from the Kansas Forest Service: Many people are surprised to learn that Kansas timber harvests contribute to the state’s economy. Though it is a small component of the overall economy (less than 1% of total manufacturing receipts) it is important to the loggers, sawmill operators, and some of secondary manufacturers who process Kansas wood products. There are over 50 sawmills, 40 timber buyers, and 200 secondary manufacturers (cabinet makers, etc.) who rely on local timber harvests. Kansas timber harvests also benefit private landowners and it is not uncommon to make thousands of dollars from periodic timber sales, especially from the sale of black walnut. Timber harvest can also benefit forest health when it releases desirable understory trees, or it can lower the quality of the forest if desirable understory does not exist and there is no proper follow up management.

This same report stated: The USDA Forest Service, Northern Research Station, periodically surveys Kansas sawmills to determine the size and composition of the wood that is being processed. The last Timber Products Output survey was conducted in 2009. It suggests that in 2009 1.7 million cubic feet or 20.4 million board feet was harvested from Kansas forests. This is enough wood to construct an estimated 1,700 homes based on an average of 12,000 board feet of wood per house. However, most Kansas timber is not used for home construction, but ends up as furniture, gunstocks, veneer, pallets, dunnage and other miscellaneous forest products. Black walnut has always driven forest industry in Kansas and accounted for 43% of

the timber harvested in 2009. About 55% of the timber harvested in Kansas is processed locally while most of the remaining volume was sent to mills in Missouri and Iowa. In 2009 Kansas mills generated 16.6 thousand green tons of sawdust, slabs, and edgings with about 46% used by the mulch industry and 34% for animal bedding, small dimension specialty products, 10% for residential fuel and 2% industrial fuel.

II) RESULTS OR BENEFITS EXPECTED

- Identification of pathways so action can be taken to stop further spread of pests.
- Support domestic and foreign exports of walnut trees and wood from Kansas.
- Presence/absence data entered into the National Agricultural Pest Information System (NAPIS) data base.

III) APPROACH

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

The survey will entail trapping fifty sites with one dry funnel trap at each site in sixteen north central counties using a seasonal staff person from June to August. The traps will be placed in the north central counties focusing on areas around saw mills, collection points, plantations and reservoirs with walnut trees. Traps will be checked every 1-2 weeks.

For walnut twig beetle (*Pityophthorus juglandis*), the state entomologist will screen targets and then send targets to a qualified USDA-APHIS-PPQ identifier.

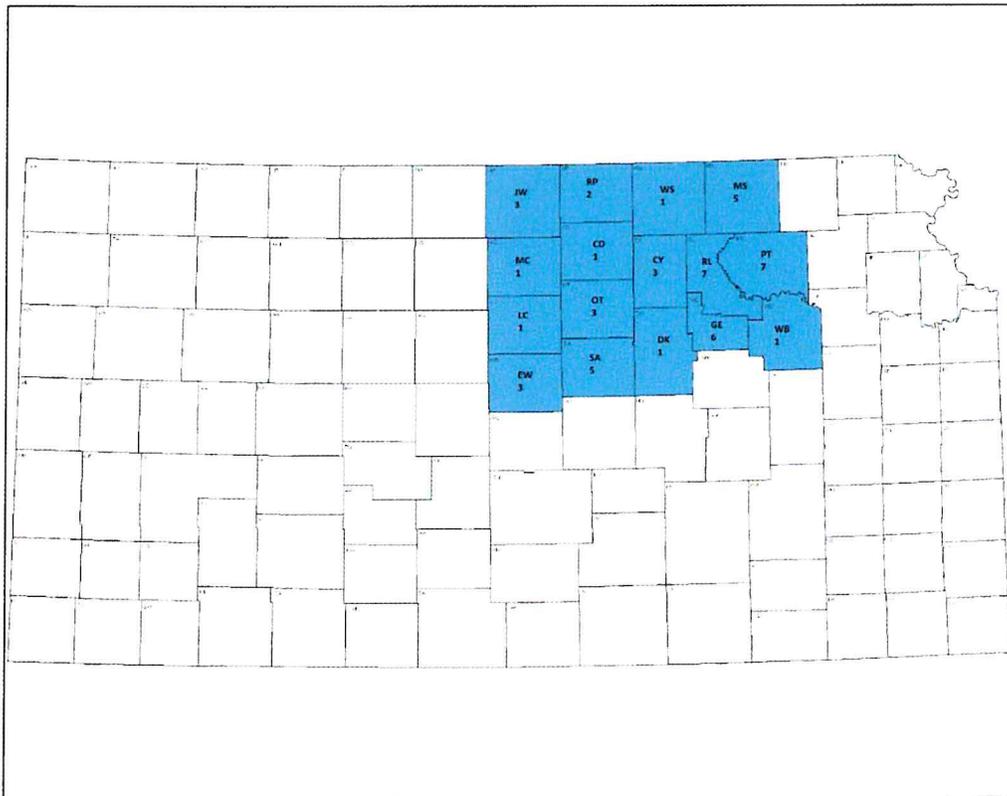
County	Possible Location	Pest	Total in Traps County
CLAY	Arboretum	Walnut Twig Beetle	3
CLAY	Lake Park	Walnut Twig Beetle	
CLAY	Lake Park	Walnut Twig Beetle	
CLAY	Lake Park	Walnut Twig Beetle	
CLOUD	Sawmill	Walnut Twig Beetle	1
CLOUD	Recreation Area	Walnut Twig Beetle	
DICKINSON	Township	Walnut Twig Beetle	1
ELLSWORTH	Township	Walnut Twig Beetle	3
ELLSWORTH	Lake Park	Walnut Twig Beetle	
ELLSWORTH	Plantation	Walnut Twig Beetle	
ELLSWORTH	Recreation Area	Walnut Twig Beetle	
GEARY	Fishing Lake	Walnut Twig Beetle	6
GEARY	Lake Park	Walnut Twig Beetle	
GEARY	Lake Park	Walnut Twig Beetle	
GEARY	Lake Park	Walnut Twig Beetle	

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GEARY	Lake Park	Walnut Twig Beetle	
GEARY	Lake Park	Walnut Twig Beetle	
GEARY	Recreation Area	Walnut Twig Beetle	
JEWELL	Sawmill	Walnut Twig Beetle	3
JEWELL	Township	Walnut Twig Beetle	
JEWELL	Fishing Lake	Walnut Twig Beetle	
JEWELL	Township	Walnut Twig Beetle	
LINCOLN	Recreation Area		1
MARSHALL	Park	Walnut Twig Beetle	5
MARSHALL	Township	Walnut Twig Beetle	
MARSHALL	Township	Walnut Twig Beetle	
MARSHALL	Landfill	Walnut Twig Beetle	
MARSHALL	Township	Walnut Twig Beetle	
MARSHALL	Township	Walnut Twig Beetle	
MARSHALL	Township	Walnut Twig Beetle	
MITCHELL	Township	Walnut Twig Beetle	1
OTTAWA	Sawmill	Walnut Twig Beetle	3
OTTAWA	Township	Walnut Twig Beetle	
OTTAWA	Fishing Lake	Walnut Twig Beetle	
POTTAWATOMIE	Sawmill	Walnut Twig Beetle	7
POTTAWATOMIE	Sawmill	Walnut Twig Beetle	
POTTAWATOMIE	Township	Walnut Twig Beetle	
POTTAWATOMIE	Township	Walnut Twig Beetle	
POTTAWATOMIE	Fishing Lake	Walnut Twig Beetle	
POTTAWATOMIE	Fishing Lake	Walnut Twig Beetle	
POTTAWATOMIE	Plantation	Walnut Twig Beetle	
POTTAWATOMIE	Lake Park	Walnut Twig Beetle	
POTTAWATOMIE	Lake Park	Walnut Twig Beetle	
REPUBLIC	Township	Walnut Twig Beetle	2
REPUBLIC	Township	Walnut Twig Beetle	
RILEY	Nursery	Walnut Twig Beetle	7
RILEY	Township	Walnut Twig Beetle	
RILEY	Township	Walnut Twig Beetle	
RILEY	Cemetery	Walnut Twig Beetle	
RILEY	Lake Park	Walnut Twig Beetle	

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RILEY	Lake Park	Walnut Twig Beetle	
RILEY	Lake Park	Walnut Twig Beetle	
RILEY	Lake Park	Walnut Twig Beetle	
RILEY	Lake Park	Walnut Twig Beetle	
SALINE	Township	Walnut Twig Beetle	5
SALINE	Park	Walnut Twig Beetle	
SALINE	Landfill	Walnut Twig Beetle	
SALINE	Landfill	Walnut Twig Beetle	
SALINE	Recreation Area	Walnut Twig Beetle	
SALINE	Recreation Area	Walnut Twig Beetle	
SALINE	Recreation Area	Walnut Twig Beetle	
WABAUNSEE	Nursery	Walnut Twig Beetle	1
WABAUNSEE	Recreation Area	Walnut Twig Beetle	
WASHINGTON	Rest Area	Walnut Twig Beetle	1
Total Number of Traps			50



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County	Pest	Number of Traps
CLAY	Walnut Twig Beetle	3
CLOUD	Walnut Twig Beetle	1
DICKINSON	Walnut Twig Beetle	1
ELLSWORTH	Walnut Twig Beetle	3
GEARY	Walnut Twig Beetle	6
JEWELL	Walnut Twig Beetle	3
LINCOLN	Walnut Twig Beetle	1
MARSHALL	Walnut Twig Beetle	5
MITCHELL	Walnut Twig Beetle	1
OTTAWA	Walnut Twig Beetle	3
POTTAWATOMIE	Walnut Twig Beetle	7
REPUBLIC	Walnut Twig Beetle	2
RILEY	Walnut Twig Beetle	7
SALINE	Walnut Twig Beetle	5
WABAUNSEE	Walnut Twig Beetle	1
WASHINGTON	Walnut Twig Beetle	1
16 Counties		50 Traps

A. The Cooperator will:

- Supply GPS equipment.
- Document GPS coordinates for site locations.
- Maintain equipment used in this survey upon completion of project.
- Hire one temporary/seasonal staff person through a hiring agency that has a contract with the state to perform survey.
- Help train seasonal staff and handle samples taken from field.
- Rent vehicle and supply a fuel card for travel to conduct survey and collect data.
- Conduct survey in north central Kansas from June 2020 to August 2020.

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

- Survey will be performed by one temporary/seasonal person.
- Temporary/seasonal employee will be trained and monitored by the State Survey Entomologist and State Survey Coordinator.
- Data will be entered into the NAPIS database when pest identification is confirmed and/or becomes available.
- GPS coordinates will be included in surveys.
- Screening of suspect insects will be done by the state entomologist.
- Suspect walnut twig beetle specimens will be sent to a qualified identifier.
- Geographic assessment will occur from data gathered on locations of black walnut populations.

2. 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?

- Trapping will occur during June to August.
- Fact sheets, webpage, resources, and pest reporting will be continually updated as new information becomes available.
- Data will be entered into the NAPIS database when pest identification is confirmed and/or becomes available.
- GPS coordinates will be included with surveys.
- Survey and identification of the Walnut Twig Beetle, vector of the *Geosmithia* fungus, if present.
- Screening of suspect insects will be done by the state entomologist.
- Suspect target pests will be forwarded to a qualified identifier.

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

- Pest detection survey activities completed.
- All data collected from the pest detection survey entered into the NAPIS database.
- SPHD, SPRO, PSS, and SSC meetings on survey issues, if needed.
- Presence or absence of target pests.
- Better knowledge of the pathways that are at high risk for the introduction and establishment of target pests.

3. What numbers and types of personnel will be needed and what will they be doing?

- One temporary/seasonal person to conduct survey.
- KDA permanent staff to help train seasonal employee.
- Data from survey entered into the NAPIS database by the State Survey Coordinator or KDA staff.
- KDA staff will screen target specimens.
- Qualified identifier for specimen identification (APHIS Identifier).

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?

- Computers
- Microscopes and similar lab equipment

b. What equipment will be requested from APHIS on loan?

- None planned

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

- None planned

d. How will the equipment be used?

- Data entry, documentation, and analysis
- Screening and identification of pests

e. What is the proposed method of disposition of the equipment upon termination of the agreement/project?

- None planned

5. Identify information technology equipment, e.g., computers, and their ancillary components.

- GPS units to document locations
- KDA computers with internet to enter data

6. What supplies will be needed to perform the work?

- GPS units
- Computers
- Alcohol
- Plastic bags
- Throw bag
- Jars
- Insecticidal strips
- Various sizes of manila envelopes (screened specimens to be sent to identifier)
- Lindgren funnel traps
- Walnut twig beetle lure
- Poles for hanging traps
- Rope for hanging traps
- Rental vehicle
- Fuel for rental vehicle

a. What supplies will be provided by the Cooperator?

- GPS units
- Computers
- Poles
- Lindgren funnel traps

b. What supplies will be requested from APHIS (list supplies)?

- Insecticidal Strips
- Lindgren funnel traps

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

- 70% Alcohol
- Plastic bags
- Throw bag
- Jars
- Various sizes of manila envelopes (screened specimens to be sent to identifier)
- Plastic bags
- Rope for hanging traps
- Walnut Twig Beetle Lure
- Rental vehicle
- Fuel for rental vehicle

d. How will the supplies be used?

- Planning, implementation, data collection and data submission of survey.
- Pest detection survey work.
- Shipping of specimens to identifiers or labs.

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

- None planned

7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?

- Supplies for survey work.
- The Fiscal Department at the Kansas Department of Agriculture will provide most contracts.
- Seasonal employee will be employed by a temporary employment service that has a contract with the state.
- Most procurements will be made by purchase order.
- Some procurements will be made reimbursable personal expense.

8. What are the travel needs for the project?

a. Is there any local travel to daily work sites? Indicate rates and total costs in the Financial Plan.

- Supplies for survey work.
- The Fiscal Department at the Kansas Department of Agriculture will provide most contracts.

- Seasonal employee will be employed by a temporary employment service that has a contract with the state.
- Most procurements will be made by purchase order.
- Some procurements will be made reimbursable personal expense.

b. What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates)? Indicate rates and total cost in the Financial Plan.

- None planned

9. Reports:

All Reports will be completed in ezFedGrants. Reports include:

- a. Narrative accomplishment reports in the frequency and time frame specified on the Agreement Award Face Sheet.
- b. Federal Financial Reports, SF-425, in the frequency and time frame specified on the Agreement Award Face Sheet.

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

a. If so, list other participating institutions/agencies who will work on the project:

- KDA
- USDA/APHIS/ PPQ

b. Describe the nature of their effort:

- KDA – trapping, training, screening, specimen collection, lure and trap maintenance (state entomologist, CAPS coordinator and temporary/seasonal employees)
- USDA-APHIS- PPQ – funding, support and pest identification

B. APHIS Will:

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

a. Include any significant Agency collaboration and participation

- Provide funds to the Cooperator to cover costs outlined in the Financial Plan.
- Make arrangements for Taxonomic support in identification.

b. Project oversight and performance management

- Review of data results submitted to the NAPIS database.
- Review data and submit accomplishment reports to ADODR.
- Provide training, when necessary.

c. Provide the equipment requested by the cooperator in 4.b. & c.

- None planned

d. Provide the supplies requested by the cooperator in 6.b. & c.

- Some bucket traps
- Lures
- Yellow sticky cards
- 70% Alcohol
- Ziploc bags
- Jars
- Insecticidal strips
- Various sizes of manila envelopes (screened specimens to be sent to identifier)
- Lindgren funnel traps
- Twine for hanging traps
- Rental vehicle
- Fuel for rental vehicle

IV) GEOGRAPHIC LOCATION OF PROJECT

A. Is the project statewide or in specific counties? [List the names of ALL counties and tribal areas that apply (denote counties for each separate survey if this is a bundled survey work plan)].

Clay, Cloud, Dickinson, Ellsworth, Geary, Jewell, Lincoln, Marshall, Mitchell, Ottawa, Pottawatomie, Republic, Riley, Saline, Wabaunsee, Washington

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

- Woodland
- Recreation areas
- Wood processing facilities

C. Are there any unusual geographic features which may have an impact on the project? (list all that apply)

- There could be many unusual features which may have an impact on the project or activity such as rivers, lakes, forests and wildlife sanctuaries.
- Areas might have disruption through human contact and dust, dirt and debris.
- Rattlesnakes and wildlife could have an impact on where to survey.

V) DATA COLLECTION AND MAINTENANCE

It is important that any surveys for TCD are documented to keep a record of both positive and negative TCD locations. All surveyors (FS, PPQ, and State) should collect data on the “Walnut Twig Beetle Trap Result Reporting” spreadsheet (Appendix 4). FS will post the state specific datasheets to use at http://www.fs.fed.us/foresthealth/technology/survey_tcd.shtml. Please follow the instructions on the first tab and submit your data annually to Bruce Moltzan bmoltzan@fs.fed.us prior to November 1. Though latitude and longitude are requested, individual data points will not be made available outside the agencies sponsoring the collection or recording of that particular data (Federal and State).

VI) TAXONOMIC SUPPORT

- If you do not need additional assistance taxonomic assistance, list the person(s) or institution who will perform the identification/diagnostics, and do not check B.
 - If you need assistance, check B.
- A. Person(s) or Institution that will screen targets (Name & Contact Information) and level of screening/identification.

OR

- B. Request for taxonomic support.

- For walnut twig beetle confirmation.

VII) SURVEY SUMMARY FORM

A Survey Summary Form must be completed to summarize all PPA 7721 Goal 1 Surveys.

Lindgren Funnel Trap:

Walnut Twig Beetle (*Pityophthorus juglandis*)

VIII) SIGNATURES



ROAR

3/19/2020

Date



ADODR

Date

Detailed Financial Plan

COOPERATOR NAME: Kansas Department of Agriculture

TIME PERIOD (Cooperative Agreement Year): March 30, 2020 – February 28, 2021

Financial Plan must match the SF-424A, Section B, Budget Categories (rounded to the nearest dollar).

All costs in the financial plan, excluding fringe benefits and indirect costs, must be included in the work plan.

ITEM			APHIS FUNDS	COOPERATOR FUNDS (Show even if zero)	TOTAL
PERSONNEL:	Hours	Salary			
KDA staff - Paid by Cooperator funds (based on average hourly wage for permanent employees)	15	\$25	\$0	\$375	\$375
Key Staffing (1 temporary staff) \$20.00 x 320 hours (includes data entry time and trap prep)	\$20	320	\$6,400	\$0	\$6,400
Subtotal			\$6,400	\$375	\$6,775
FRINGE BENEFITS:	Percent (enter as decimal not %)				
KDA staff - Paid by APHIS funds - 33%	0.33	\$375	\$0	\$123	\$123
Seasonal Staff - Paid by APHIS funds - no fringe since hired through Key Staffing			\$0	\$0	\$0
Subtotal			\$0	\$123	\$123
TRAVEL:	Cost	Length of time			
SUV rental for temporary staff for 2 months/seasonal staff @ \$882/month (shortage in state vehicles) **	\$882	2	\$1,764	\$0	\$1,764
Subtotal			\$1,764	\$0	\$1,764
EQUIPMENT:	Cost				
			\$0	\$0	\$0
Subtotal			\$0	\$0	\$0
SUPPLIES:	Cost	Length of time			
Supplies - throw bags, plastic bags, rope, etc	\$353		\$353	\$0	\$353

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Fuel - 3,500 miles per month/25mpg x \$2.50/gallon - for seasonal staff rental vehicles**	\$350	2	\$700	\$0	\$700
Lure (\$3.25 each x 50)-44 traps - lure comes in 25/pack and shipping	\$3.25	50	\$163	\$0	\$163
Traps provided by Cooperator	\$0		\$0	\$0	\$0
Subtotal			\$1,216	\$0	\$1,216
CONTRACTUAL:	Cost	Length of time			
			\$0	\$0	\$0
Subtotal			\$0	\$0	\$0
OTHER:	Cost				
Shipping samples to identifier	\$20		\$20	\$0	\$20
Subtotal			\$20	\$0	\$20
TOTAL DIRECT COSTS			\$9,400	\$498	\$9,898
INDIRECT COSTS **	Percent (enter as decimal not %)				
(18.4% on Total Direct Cost of salary and fringe benefits)*	0.184	\$124	\$0	\$23	\$23
TOTAL			\$9,400	\$521	\$9,921
COST SHARE INFORMATION (Percent)			95%	5%	