

CAPS Survey Report

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| Year: | 2012-2013 |
| State: | Oklahoma |
| Cooperative Agreement Name: | Infrastructure |
| Cooperative Agreement Number: | 12-8444-0591-CA |
| Project Funding Period: | July 1 st , 2012 through June 30 th , 2013 |
| Project Report: | CAPS Infrastructure Report |
| Project Document Date: | September 30, 2013 |
| Cooperators Project Coordinator: | Elizabeth Nguyen |
| Name: | Elizabeth Nguyen |
| Agency: | Oklahoma Department of Agriculture Food and Forestry |
| Address: | 2800 North Lincoln Boulevard |
| City/ Address/ Zip: | Oklahoma City, OK 73152 |
| Telephone: | 405-227-7624 |
| E-mail: | Elizabeth.nguyen@ag.ok.gov |

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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 workplan. When the output can be quantified, a computation of cost per unit is required when useful.*

- **Activities:**
 - **Committee Service:**
 - State CAPS Advisory Council
 - Oklahoma Pest Action Council
 - Oklahoma Invasive Plant Council

 - **Other Survey Work:**
 - Emerald Ash Borer
 - Karnal Bunt
 - Oak and Pine Pests
 - Imported Fire Ant
 - Pecan Disease
 - Thousand Cankers Disease
 - Japanese Beetle
 - Submitted all 2013 workplans before August 1st
 - Submit Farm Bill FY13 Suggestion for Kudzu Bug
 - Monitor and remove 64 Emerald Ash Borer Traps, 92 oak traps and 111 pine traps

- **Outreach:**
 - **Interviews (TV/Radio/Newspaper/Magazines):**
 - **Outreach materials (Pamphlets/brochures/posters):**
 - Invasive pests pamphlets for Earth Fest 2013
 - IFA information sheets
 - **Publications**
 - Survey instruction manuals
 - **Public Service Announcements (PSA):**

- **Meetings:**
 - **Conference calls:**
 - **Conferences:**
 - Horticulture Inspection Society- Southern Chapter Meeting
 - Attended seminars on kudzu bug, field insect identification, boxwood blight, plant disease identification, among other horticultural issues
 - Southern Plant Board Meeting
 - Attended seminars on Sweet Potato weevil, Khapra beetle, IFA, outreach programs, and other invasive pest issues. The meeting also included a CAPS breakout session for the SSC's to discuss current and upcoming CAPS topics.

- Oklahoma CAPS Advisory Council Meeting
 - Led a meeting with the CAPS Advisory Council to present what has been accomplished with CAPS thus far, and to discuss current pest issues and possible survey options.
- Operated a booth for Earth Fest 2013 hosted by Martin Nature Park in Oklahoma City
- **Webinars**
 - Emerald Ash Borer Survey Webinar
 - IPHIS Train-The-Trainer Webinar
 - Thousand Cankers Disease Webinar
 - IFA- Shipping Hay Webinar
- **Training:**
 - Trained by Erin Stiers and Everett Dale to use IPHIS
 - Trained by Erin Stiers and Susan Schechter to use NAPIS
 - Trained by Barbara Fuson to prepare survey plans and final reports
 - Trained CPS Plant Protection Specialists to conduct Emerald Ash Borer, Wood Commodity, Imported Fire Ant, and Thousand Cankers Disease surveys and to use Garmin to store trap locations.
 - Trained Agricultural Resource Inspectors to conduct Emerald Ash Borer and Karnal Bunt surveys.
- **Other:**
 - Coordinated IFA compliance inspections
 - Issued IFA quarantine violations and stop-sales
 - Final reports and data were submitted timely for all CAPS surveys in 2012 and 2013.

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

All objectives outlined in the Infrastructure workplan were met.

C. Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000.*

There have been no cost overruns or unobligated funds.

D. Supporting Documents

- **Financial Reports**

**indicates information is required per 7 CFR 3016.40 and 7 CFR 3019.51*

Approved and signed by

Cooperator

Date: _____

ADODR

Date: _____

August 2012

Cooperative Agricultural Pest Survey (CAPS) 2013 Surveys

Cooperative agreements were submitted for the following surveys:

Wood Commodity Survey

The Wood Commodity Survey is performed with funds from a cooperative agreement with the USDA APHIS. The USDA provided ODAFF with traps for leaf defoliators, bark beetles, longhorn beetles and buprestids. The Wood Commodity Survey consists of two groups of host trees, oaks and pines. ODAFF will be setting 160 traps throughout state parks, national forests, and campgrounds. Each trap is accompanied with lure to target one or more of the insects in the wood commodity survey. Pests that will be surveyed include:

| | |
|----------------------------|----------------------------------|
| Oak Splendour beetle | <i>Agrilus biguttatus</i> |
| Goldspotted Oak Borer | <i>Agrilus coxalis</i> |
| Egyptian Cottonworm | <i>Spodoptera littoralis</i> |
| Oak Processionary Moth | <i>Thaumetopoea processionea</i> |
| Asian Longhorned Beetle | <i>Anoplophora glabripennis</i> |
| European oak bark beetle | <i>Scolytus intricatus</i> |
| Japanese Pine Sawyer | <i>Monochamus alternatus</i> |
| Pine Shoot Beetle | <i>Tomicus piniperda</i> |
| Lesser Pine Shoot Beetle | <i>Tomicus destruens</i> |
| Larger Pine Weevil | <i>Hylobius abietis</i> |
| Redhaired Pine Bark Beetle | <i>Hylurgus ligniperda</i> |

Emerald Ash Borer (EAB)

This year ODAFF has been tasked with setting 388 large purple sticky traps in 43 counties using the Forest Health Technology Enterprise Team (FHTET) model and will place traps according to the USDA Forest Service risk assessment guidelines. Elizabeth Nguyen, State Survey Coordinator, will train CPS Plant Protection Specialists and Agricultural Resource Inspectors to set EAB traps, store GPS locations into Garmins, and fill out EAB site sheets.

Thousand Cankers Disease of Walnut (TCD)

Traps and lure for TCD became available for the 2013 TCD survey. Using sites from the 2012 TCD visual survey, inspectors will set traps at 26 sites in 11 counties. Lure and traps are to survey for walnut twig beetle, a small bark beetle that is a vector for the fungus, *Geosmithia morbida*.

Karnal Bunt

Wheat samples are taken to verify the absence of Karnal Bunt disease in wheat surveyed in counties across Oklahoma. The benefit of the absence of Karnal Bunt disease is for Oklahoma's exporters. This survey is conducted in order for Oklahoma wheat to continue being exported to foreign countries. Forty-two (42) wheat samples will be taken from 34 grain elevators in 13 counties. The number of samples taken is based on the average of wheat bushels harvested in Oklahoma over the last five years. For every million bushels harvested in a county, one sample is taken.

Red Imported Fire Ant (RIFA)

The RIFA agreement consists of two approaches. The quarantine approach consists of inspecting regulated articles (soil, plants, sod, hay, soil-moving equipment) from quarantined out-of-state-nursery stock and from Oklahoma grown nursery stock. The survey approach consists of setting bait tubes in counties that border the quarantined counties in Oklahoma, as well as additional counties that have had recurring positive RIFA samples.

September 2012

Horticultural Inspectors Society- Southern Chapter

The HISSC conference is aimed at promoting the sharing of experience and training among plant pest inspectors. The conference showcased speakers on different horticultural issues, including Kudzu Bug, Red Imported Fire Ant, Boxwood Blight, and Giant African Land Snail. There were also seminars on field insect identification and plant disease identification. Each state also presented an update on the horticultural issues they have faced in the past year. During the conference, HISSC members were also able to visit the Port of Savannah to see their inspection process.

2013 CAPS Survey Proposals

The following are the final proposals for CAPS surveys for 2013:

| | APHIS Share | Cooperator Share | Total |
|------------------|---------------------|-------------------------|---------------------|
| Wood Commodity | \$15,357 | \$0 | \$15,357 |
| EAB | \$34,844 | \$0 | \$34,844 |
| IFA | \$60,018 | \$6,955 | \$66,973 |
| Karnal Bunt | \$6,016 | \$0 | \$6,016 |
| Infrastructure | \$65,375 | \$0 | \$65,375 |
| Thousand Cankers | \$17,090 | \$0 | \$17,090 |
| Total | \$198,700.00 | \$6,955.00 | \$205,655.00 |

October 2012

IPHIS Training

Erin Stiers (Pest Survey Specialist) trained Elizabeth Nguyen (State Survey Coordinator) to use IPHIS, the pest data entry system. Erin and Elizabeth met at the Oklahoma Department of Agriculture, Food, & Forestry office for IPHIS training. Training included creating spreadsheets, inputting data, creating templates, creating maps, assigning locations, and generating reports.

NAPIS Training

Erin Stiers (Pest Survey Specialist) and Susan Schechter (NAPIS User Services) trained Elizabeth Nguyen (State Survey Coordinator) to use NAPIS, the pest data entry system. Susan Schechter trained Elizabeth from her office at Purdue University using a webinar. Training included creating spreadsheets, uploading single and multiple records, generating reports, and viewing maps on Pest Tracker.

IFA Compliance Agreement

Currently, there are 39 compliance agreements with ODAFF, with 2 new agreements issued for 2012. One letter of warning was issued for the following violation:

-Selling, moving or distributing nursery stock of other material under a quarantine, 2 OS § 3-32.8.

Nurseries, greenhouses, sod, hay and soil moving equipment must adhere to stipulations outlined in IFA compliance agreements issued by ODAFF and the USDA in order to move out of the quarantine zone.

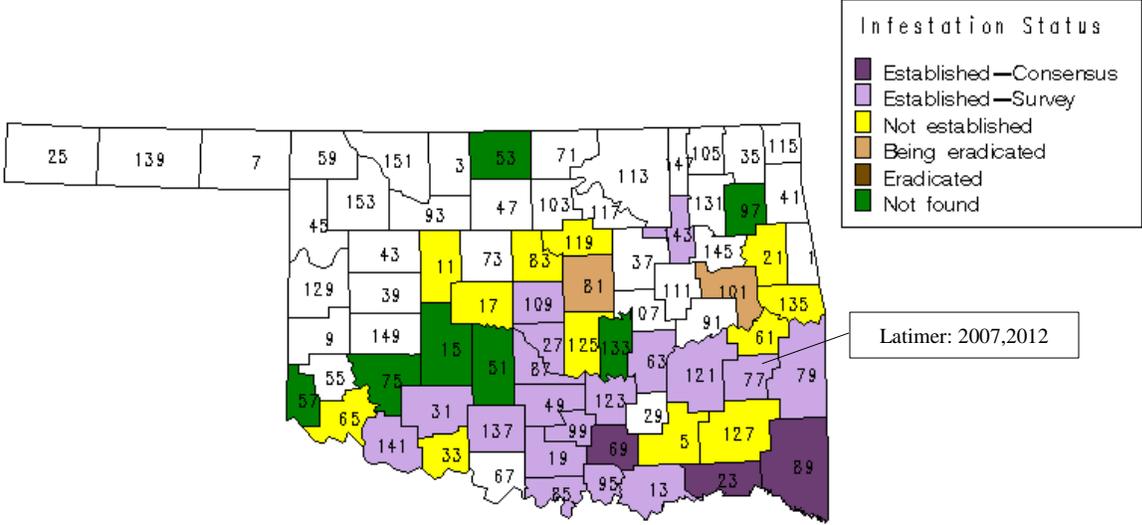
Proposed Expansion of IFA Quarantine

To determine the scope of IFA distribution, ODAFF has added additional counties to survey. Norman and Stillwater in the campus areas are surveyed yearly due to heavy traffic. Additional counties include, Canadian, Cherokee, and Muskogee Counties.

Based on survey results, six positives were found roadside in Latimer County, as well as multiple areas in Robber's Cave State Park. It is determined by survey that IFA has been found to be established in Latimer County based on the 2012 survey and surveys from previous years. A county is considered established with IFA when colonies persist after the cold season and populations are distributed beyond an isolated area.

Reported Status of
Red Imported Fire Ant (IFA), *Solenopsis invicta*
in Oklahoma (01/01/1990-09/26/2013)

Data retrieved from National Agricultural Pest Information System on 09/26/2013



The Center for Environmental and Regulatory Information Systems does not certify the accuracy or completeness of the map.
Negative data spans over last 3 years only.

December 2012

Farm Bill

USDA's Animal and Plant Health Inspection Services opened the 2013 Farm Bill 10201 suggestion period. Farm Bill 10201 funding is used to enhance invasive pest surveys, target domestic inspection activities, strengthen pest identification, safeguard nursery production, conduct outreach, and enhance mitigation capabilities. One survey was submitted for CAPS, a Kudzu Bug survey for \$5,479. Oklahoma State University also submitted a suggestion.

EAB Webinar

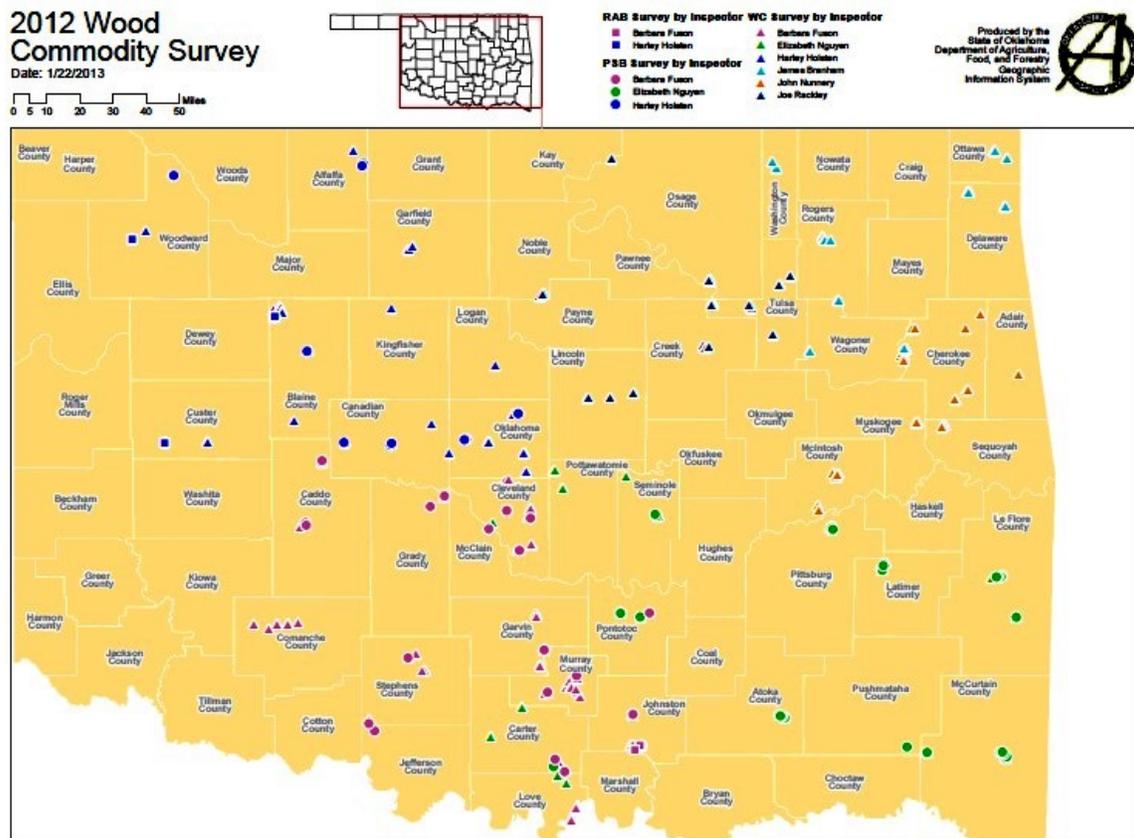
Paul Chaloux, USDA APHIS PPQ National Policy Manager, and Joe Beckwith, EAB Operations Manager, led a webinar on emerald ash borer. The webinar focused on reviewing 2012 EAB survey results, lessons learned from the first year using the risk assessment-based survey design developed in collaboration with the U.S. Forest Service's Forest Health Technology Enterprise Team, and present the 2013 survey design. The webinar also included information on using IPHIS spreadsheets to record pre-survey omits, voids, and declines locations.

January 2013

Summaries of 2012 Survey Work

Wood Commodity

The Wood Commodity survey consisted of a visual survey of 15 species and a trapping survey of 8 species with the use of six different traps. Surveyors placed a total of 1794 traps for the entirety of the state in national and state parks, urban parks, nurseries, and other natural oak and pine stands. None of the proposed invasive pests were found. All GPS coordinates of traps, observation dates, and samples submitted have been compiled and entered into NAPIS, the USDA/APHIS approved database.



Emerald Ash Borer

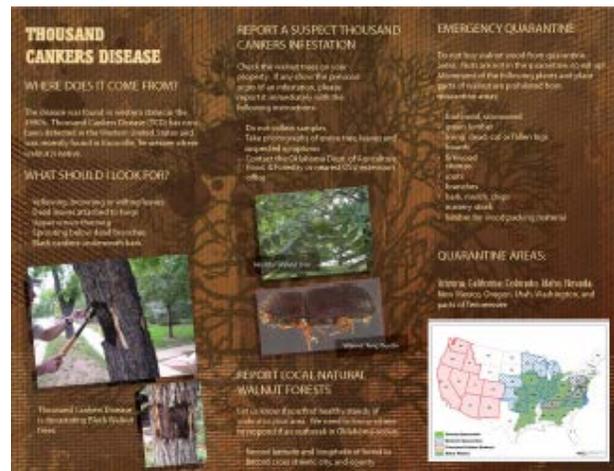
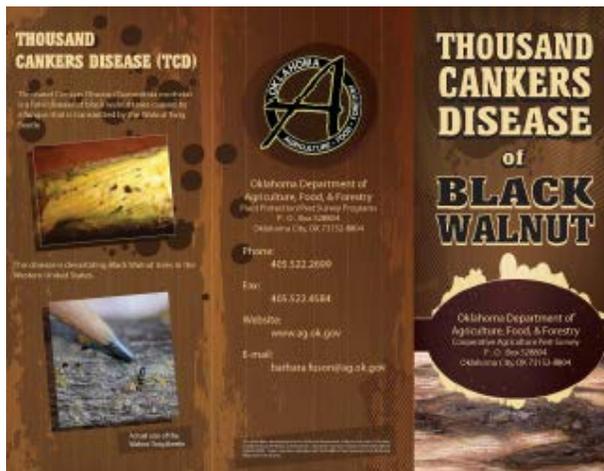
All 216 emerald ash borer traps were removed throughout the state. No emerald ash borers were recovered. All GPS coordinates of traps, observation dates, and samples submitted have been compiled and entered into IPHIS, the USDA/APHIS approved database.

Karnal Bunt

34 wheat samples were taken from 20 grain elevators in 10 counties. The number of samples taken is based on the average of wheat bushels harvested in Oklahoma over the last five years. Samples were not taken from Beaver, Grant and Texas counties, where grain elevators refused to participate in the Karnal Bunt survey. Samples were submitted to Dr. Bob Hunger's lab at Oklahoma State University, results were negative for a Karnal Bunt presence. All GPS coordinates of sites, sample dates, and samples have been compiled and entered into NAPIS, the USDA/APHIS approved database.

Thousand Cankers Disease

The visual survey accomplishes the initial program planning portion of the TCD Survey. Based off the GPS locations from the visual survey, inspectors will begin to install traps starting the first week of April, and trapping through June. Inspectors visually surveyed 36 native walnut stands throughout the state. ODAFF provided brochures to landowners as observations were made and at various stakeholder meetings. These brochures contain information about symptoms of TCD and the recent TCD quarantine implemented this year.



February 2013

IPHIS Train-the-Trainer Refresher Seminar

The IPHIS webinar was hosted by David Kowalski, Data Manager with the USDA/APHIS/PPQ, and was a 3 day refresher course on using IPHIS. The focus of the seminar was to introduce the new features of IPHIS, reviewing standard procedures, troubleshooting, and discussing its limitations. Several topics of discussed in the seminar include naming data, scheduling, new shortcuts, ordering supplies, using a PDA with IPHIS, importing and reporting data, and mapping.

March 2013

TCD Webinar

The U.S. Forest Service hosted a webinar on Thousand Cankers Disease. The webinar included speakers from USFS Forest Health Protection, APHIS/PPQ, and the Pennsylvania, Virginia, and Ohio Departments of Agriculture. Thousand Cankers Disease has been detected in several western US states and several eastern states and has prompted many states to enact quarantines on the movement of walnut articles. The seminar emphasized TCD topics such as the cause and biology of TCD, basic biology of walnut twig beetle, and APHIS/Farm Bill National Report/Guidelines.

April 2013

Southern Plant Board Meeting

The Annual Southern Plant Board Meeting was held in New Orleans, Louisiana on April 21-24. The Southern Plant Board consists of plant pest regulatory agencies in each of the states whose purpose is to come together to foster effective plant health programs on plant pest prevention and regulatory matters. The board also collaborates with other public and private agencies to protect agriculture, horticulture, forestry, and environmental commodities. This year's SPB hosted speakers to update members on matters concerning Field Operations, Farm Bill and Cooperative Agreements, National Plant Board matters, HISSC, and individual state reports.

Elizabeth Nguyen, as State Survey Coordinator, participated in the CAPS breakout session that included State Survey Coordinators and State Plant Regulatory Officials from all states in the SPB. The CAPS breakout session was led by Sherry Aultman, the CAPS representative for the SPB. Issues that were discussed included budget cuts in the CAPS program, new survey guidelines and reporting protocols for NAPIS and IPHIS, the CAPS collaboration website, NAPPFAST, future region-wide outreach projects, and awards and recognitions. The SPB meeting also included a field trip to the Woodland Plantation home and a tour of the Saxon



Becnel & Sons citrus nursery.

Earth Fest 2013

Martin Nature Park in Oklahoma City hosted Earth Fest 2013 on Saturday, April 27. Elizabeth Nguyen, State Survey Coordinator, set up an Invasive Pests booth and spoke with outdoor enthusiasts on the dangers of anthropogenic-caused invasive pest movement. Pamphlets, stickers, and tattoos on TCD, Oklahoma's Invasive Pests, Don't Move Firewood, EAB, and ALB were provided to Earth Fest attendees.



June 2013

CAPS Committee Meeting

The Annual Cooperative Agricultural Pest Survey Committee Meeting was held on June 13 at Oklahoma State University. Elizabeth Nguyen, the State Survey Coordinator, hosted the meeting and invited individuals from ODAFF CPS and Forestry Divisions, collaborators from OSU and OU, including extension specialists, diagnostic lab, and biosecurity specialists, the State Plant Health Director, the Pest Survey Specialist, and other individuals from USDA/APHIS.

The agenda included a discussion of CAPS and Farm Bill survey results from 2012, the status of 2013 CAPS and Farm Bill Surveys, and survey plans and pest concerns for 2014. An update of what's new in CAPS and other state's CAPS programs were also discussed. The committee made recommendations for possible 2014 surveys. While there is little room for additional CAPS surveys, the USDA recommends submitting surveys through Farm Bill. Pests of concern for 2014 include kudzu bug and brown marmorated stink bug, both being grouped into a survey for soybean commodities. Both the brown marmorated stink bug and kudzu bug have been found in the U.S. and would be an incredible nuisance to Oklahoma's legume crops. The Formosan termite is another pest of concern that was recommended by OSU. It has been found as close as Denton, TX and feeds off live plant material.

Possible outreach activities prospects were also discussed. Citizen science is a large portion of other state's outreach efforts and contributes to early detection and making invasive pests a widespread concern. However, a disadvantage of citizen science is misidentification. This being said, targeting individuals in the industry would be advantageous, such as master gardeners, retired professionals, university professors and students, etc.

CAPS Survey Funding Reduction

The USDA decreased federal funding for all 2013 CAPS agreements by 7.8%. The reduced proposals are as follows:

| | APHIS Share | Cooperator Share | Total |
|------------------|---------------------|-------------------------|---------------------|
| Wood Commodity | \$14,159 | \$0 | \$14,159 |
| EAB | \$22,117 | \$0 | \$22,117 |
| IFA | \$56,507 | \$6,469 | \$62,976 |
| Karnal Bunt | \$6,016 | \$0 | \$6,016 |
| Infrastructure | \$51,697 | \$0 | \$51,697 |
| Thousand Cankers | \$17,090 | \$0 | \$17,090 |
| Total | \$167,586.00 | \$6,469.00 | \$174,055.00 |