

# *P. ramorum* Farm Bill Survey Accomplishment Report Template

## Farm Bill Survey Report

Year:	2018
State:	Louisiana
Cooperative Agreement Name:	Sudden Oak Death (SOD) Survey
Cooperative Agreement Number:	18-8422-1734-CA
Project Funding Period:	April 5, 2018 to December 31, 2018
Project Report:	Farm Bill <i>P. ramorum</i> Nursery/Environs Survey Report
Project Document Date:	February, 2019
Cooperators Project Coordinator:	State Survey Coordinator (SSC)
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Quarterly Report	<input type="checkbox"/>
Semi-Annual Accomplishment Report	<input type="checkbox"/>
Annual Accomplishment Report	<input checked="" type="checkbox"/>

- A. Write a brief narrative of work accomplished. Compare actual accomplishments to objectives established as indicated in the work plan. When the output can be quantified, a computation of cost per unit is required when useful.

The Louisiana Department of Agriculture and Forestry (LDAF) entered into a Cooperative Agreement with the United States Department of Agriculture (USDA), Animal Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ) in 2018 to conduct a visual and water baiting survey for *Phytophthora ramorum*. LDAF conducted this survey according to survey guidelines set forth by the USDA APHIS PPQ in 2018. LDAF's Agriculture and Environmental Science (AES) division is divided into 7 districts across the state and each district was utilized to conduct this survey. LDAF was set to begin this survey in the spring of

2018 at which time a Trace Forward notice was handed down from PPQ. This Trace Forward investigation involved a rather large nursery that had shipped a large amount of plant material to numerous big box stores in Louisiana. PPQ advised that 2 Pieris plants were found positive for *Phytophthora ramorum* at this nursery and the confirmed positive nursery protocol was underway. Furthermore, PPQ advised that LDAF should inspect every shipment sent to Louisiana by confirmed positive nursery. Several conference calls were conducted with PPQ, LDAF and all states that received the alleged infected nursery stock.

LDAF AES inspectors conducted 30 Sudden Oak Death Trace Forward inspections and PPQ officers inspected 6 locations. There was a total of 52 tissue samples collected and submitted to Dr. Raj Singh at Louisiana State University for initial screening. Sixteen of the 52 tissue samples tested ELISA positive by Dr. Singh. DNA was extracted from these ELISA positive samples using Dneasy Plant Mini Kits by Dr. Singh and then was forwarded to Dr. Carrie Lapaire Harmon at the University of Florida located in Gainesville, Florida. Dr. Harmon determined all ELISA positive samples were negative by real-time PCR (ITS & ELICITIN) with all controls performing as expected.

The water baiting portion of our survey was initiated on November 1<sup>st</sup>, 2018 when camellia leaves were collected for the survey. Control samples were submitted to Dr. Raj Singh at LSU for analysis the next day. Camellia leaves were delivered to the 3 Districts involved in this survey (Opelousas, Alexandria and Baton Rouge) and deployed on November 5<sup>th</sup>, 2018 at 5 of our larger nurseries that have retention ponds and ship and receive host plant material. Camellia leaves remained in the baited traps until November 14<sup>th</sup>, 2018 at which time they were decommissioned and delivered to Dr. Raj Singh at LSU on November 15<sup>th</sup>, 2018. Forty six total samples (including controls) were tested by Dr. Singh and all were reported ELISA negative for Sudden Oak Death

Outreach continues to be a major objective for the Sudden Oak Death Survey and is performed prior to every inspection. LDAF AES inspectors educate each nursery grower, nursery stock dealer or property owner about *Phytophthora ramorum* and the symptoms associated with this disease, thus increasing public awareness and communication of the threat posed.

B.

Funding Amount	Total Number of Sites	Cost Per Unit
Proposed = \$20,000	Proposed = 30	Proposed= n/a
Actual = \$20,000	Actual = 36	Actual = n/a

1. Survey dates:

	Proposed	Actual
Survey Dates:	01/01/2018 to 12/31/2018	04/05/2018 to 12/31/2018

2. Counties surveyed:

Number of Counties:	19
Counties:	Acadia, Ascension, Bossier, Caddo, Calcasieu, East Baton Rouge, Iberia, Lafayette, Lafourche, Lincoln, Ouachita, Rapides, St. Landry, St. Tammany, Tangipahoa, Terrebonne, Vermilion, Vernon, Webster.

**3. Survey Results:**

A	B	C	D	E	F	G	H	I
Split surveys by which calendar year they occurred in	Number of nurseries surveyed	Number of other sites surveyed	Number of water samples tested	Number of water samples positive	Number of soil samples tested	Number of soil samples positive	Number of plant samples tested	Number of plant samples positive
<b>CY15</b>	<b>32</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>105</b>	<b>0</b>
<b>CY16</b>	<b>32</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>0</b>
<b>CY17</b>	<b>32</b>	<b>0</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>0</b>
<b>CY18</b>	<b>36</b>	<b>0</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>0</b>

**4. Database submissions:**

All survey data will be entered into the IPHIS database at the conclusion of the survey by PPQ Louisiana.

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

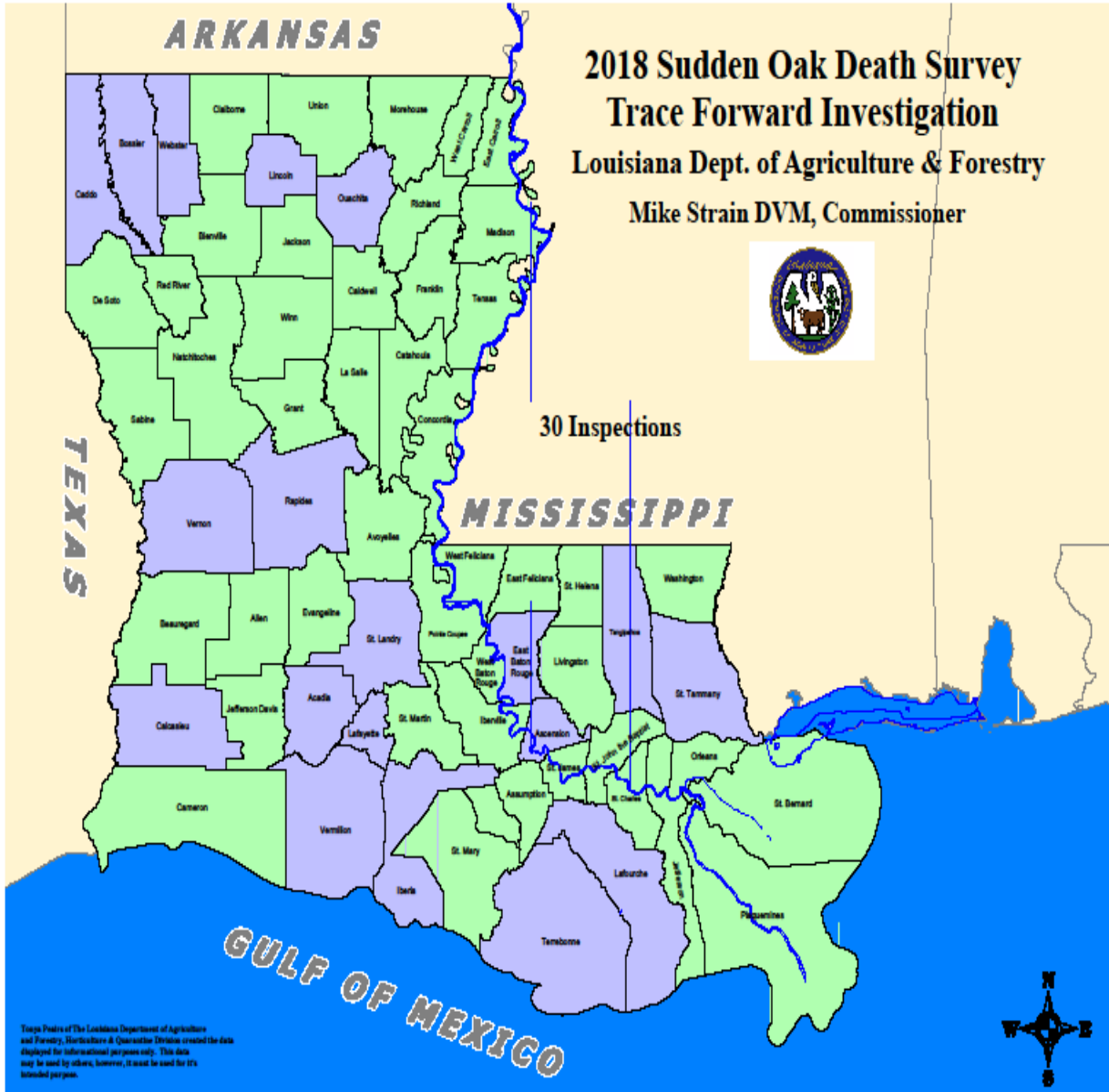
Some objectives were redirected as a result of the Trace Forward Investigation but all objectives were met at the conclusion of the survey.

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

Cost overruns were incurred by LDAF at the amount of \$2,756 for the 2018 Sudden Oak Death Survey.

ARKANSAS

2018 Sudden Oak Death Survey  
Trace Forward Investigation  
Louisiana Dept. of Agriculture & Forestry  
Mike Strain DVM, Commissioner



30 Inspections

GULF OF MEXICO

Maps of the Louisiana Department of Agriculture and Forestry, Horticulture & Quarantine Division created the data displayed for informational purposes only. This data may be used by others, however, it must be used for its intended purpose.

