

P. ramorum PPA 7721 Survey 2019 Accomplishment Report Template

Year:	2019
State:	Louisiana
Cooperative Agreement Name:	Sudden Oak Death (SOD) Survey
Cooperative Agreement Number:	AP19PPQFO000C100
Project Funding Period:	April 1, 2019 to December 31, 2019
Project Report:	PPA 7721 <i>P. ramorum</i> Nursery/Environs Survey Report
Project Document Date:	March, 2020
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 2019 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 2019. 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 began this survey in the spring of 2019 and concluded this survey by November of 2019. LDAF AES inspectors conducted 32 Sudden Oak Death (SOD) inspections in the Spring of 2019 including 6 locations where an environmental survey was performed due to their previously positive status from 2004. There was 104 tissue samples collected and submitted to Dr. Singh's lab at Louisiana State University (LSU). Nineteen of the 104 tissue samples tested ELISA positive. DNA was extracted from the 19 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 18 of the 19 ELISA positive samples were negative by real-time PCR (ITS & ELICITIN) with all controls performing as expected. One sample was determined "inconclusive" and was forwarded to USDA APHIS-PPQ-S&T-CHST laboratory in Beltsville, MD for further analysis. This sample was also determined to be negative.

The water baiting portion of our survey was conducted in the November of 2019 when water temperatures decreased to between 46 and 71 degrees Fahrenheit. LDAF AES inspectors deployed baited traps at 5 of our larger nurseries that have retention ponds. Camellia leaves were allowed to set on the surface of the retention ponds for 8 consecutive days. Forty six samples were submitted (including 6 control samples) to Dr. Singh at LSU for analysis. There were 19 ELISA positive samples later determined negative for *Phytophthora ramorum* by Dr. Singh using morphological characteristics.

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.

Funding Amount	Total Number of Sites	Cost Per Unit
Proposed = \$20,000	Proposed = 30	Proposed= n/a
Actual = \$20,000	Actual = 32	Actual = n/a

1. Survey dates:

	Proposed	Actual
Survey Dates:	01/01/2019 to 12/31/2019	04/01/2019 to 12/31/2019

2. Counties surveyed:

Number of Counties:	19
Counties:	Beauregard, Bossier, Caddo, Calcasieu, East Baton Rouge, Iberia, Jefferson, Lafayette, Lincoln, Ouachita, Pointe Coupee, Rapides, St. Charles, St. John the Baptist, St. Tammany, Tangipahoa, Union, Vermilion, Washington.

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
CY15	32	0	44	0	0	0	105	0
CY16	32	0	44	0	0	0	85	0
CY17	32	0	46	0	0	0	68	0
CY18	36	0	46	0	0	0	52	0
CY19	32	0	46	0	0	0	104	0

4. Database submissions:

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

- B. If appropriate, explain why objectives were not met.
All objectives were obtained for this survey.**
- C. Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000.
This survey incurred cost overruns of approximately \$1,662. This overrun was due to more than expected personnel, fringe benefits and travel charges.**