

## *P. ramorum* PPA 7721 Survey 2020 Accomplishment Report Template

Year:	2020
State:	Louisiana
Cooperative Agreement Name:	Sudden Oak Death (SOD) Survey
Cooperative Agreement Number:	AP20PPQFO000C302
Project Funding Period:	April 1, 2020 to December 31, 2020
Project Report:	PPA 7721 <i>P. ramorum</i> Nursery/Environs Survey Report
Project Document Date:	March, 2021
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 2020 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 2020. This PPA 7721 funded project executed by LDAF is strengthening its relationships with a state wide network of cooperators that are helping to identify exotic pest threats, determining and implementing the most effective means of preventing, detecting, and responding to

new exotic pests. LDAF is also communicating risks and needs to land management personnel, relevant industries and the public.

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 2020 and concluded this survey in November of 2020. LDAF inspectors have conducted 35 Sudden Oak Death (SOD) inspections thus far including 6 locations where an environmental survey was performed due to their previously positive status from 2004. There have been 116 tissue samples collected and submitted to Dr. Singh’s lab at Louisiana State University (LSU). Twenty of the 116 tissue samples tested ELISA positive. DNA was extracted from the 20 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 19 of the 20 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 Dr. Craig Webb’s lab at Kansas State University. Dr. Webb determined the sample to be “inconclusive” also, but later consulted with USDA APHIS-PPQ-S&T-CHST laboratory in Beltsville, MD and it was decided to be determined positive for *Phytophthora ramorum*. The confirmed nursery protocol was initiated at the positive nursery on September 14<sup>th</sup>, 2020. LDAF AES inspectors in conjunction with PPQ officers have taken 592 samples from both the confirmed positive block and the non-quarantined blocks. The 592 samples were submitted to Dr. Singh’s lab at LSU and he determined 31 samples to be ELISA positive. DNA was extracted from the 31 ELISA positive samples and they were forwarded to Dr. Carrie Lapaire Harmon’s lab at the University of Florida where she determined all 31 samples to be negative for *Phytophthora ramorum*.

The confirmed nursery protocol is still ongoing and LDAF has entered into a new cooperative agreement with USDA APHIS PPQ called “*Phytophthora ramorum* (SOD) Regulatory Program and Confirmed Nursery Protocol”.

The water baiting portion of our survey was discontinued due to funding already being exhausted resulting from the positive detection of *Phytophthora ramorum*.

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 = 35	Actual = n/a

1. Survey dates:

	Proposed	Actual
Survey Dates:	01/01/2020 to 12/31/2020	04/01/2020 to 12/31/2020

2. Counties surveyed:

<b>Number of Counties:</b>	<b>16</b>
<b>Counties:</b>	Ascension, Beauregard, Bossier, Calcasieu, East Baton Rouge, Iberia, Jefferson, Lafayette, Lincoln, Ouachita, Orleans, Pointe Coupee, Rapides, St. Landry, St. Tammany, Washington.

**3. Survey Results:**

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>
<b>Split surveys by which calendar year they occurred in</b>	<b>Number of nurseries surveyed</b>	<b>Number of other sites surveyed</b>	<b>Number of water samples tested</b>	<b>Number of water samples positive</b>	<b>Number of soil samples tested</b>	<b>Number of soil samples positive</b>	<b>Number of plant samples tested</b>	<b>Number of plant samples positive</b>
<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>
<b>CY19</b>	<b>32</b>	<b>0</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>104</b>	<b>0</b>
<b>CY20</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>708</b>	<b>1</b>

**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 exceeded for this survey.

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

Cost overruns of \$5,254.00 were incurred due to the positive sample and CNP work being performed which resulted in more than expected personnel, fringe benefits, travel and sample charges.