

USDA APHIS PPQ *Phytophthora ramorum* 2020 Summary

In 2020, the USDA APHIS PPQ *Phytophthora ramorum* Program supported compliance activities, diagnostics, and surveys in 30 states. Confirmed positive samples were collected at interstate shipping nurseries, an intrastate shipping nursery, a large managed landscape, commercial landscapes, residences and in the environment. Table 1 lists the number and type of establishments with APHIS confirmed *P. ramorum* positive samples in 2020.

APHIS supported compliance inspections of previously confirmed positive interstate nurseries; positive samples were detected in seven interstate nurseries already in compliance agreements. Five interstate shipping nurseries entered into compliance agreements for the first time in 2020. Two nurseries were released from compliance agreements in 2020 by fulfilling all requirements.

Positive samples were collected at one intrastate nursery (from plants in a brand-new nursery). Water samples taken at a previously positive managed landscape tested positive, as did samples from two landscapes and two residences.

APHIS confirmed two positive tanoaks (*Notholithocarpus densiflorus*) in Del Norte County, CA. This detection expanded the California quarantine area to 16 counties.

Table 1: Summary of Facilities within the U.S. with APHIS Confirmed Positive Detections of *P. ramorum* in 2020

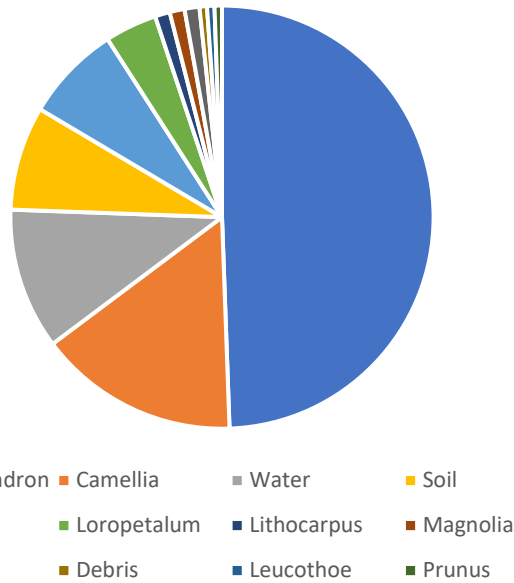
Type of Facility/Location	Total Positive	# Facilities/Locations Positive for the First Time	# Facilities/Locations Previously Positive
Interstate shipping nursery	12	5	7
Intrastate shipping nursery	1	1	0
Residential/Managed Landscape	5	4	1
Environmental	1	1	0
Total	19	11	8

Phytophthora ramorum was detected in 177 samples in 2020 (See Table 2 and Figure 1). The most common sample types confirmed positive for *P. ramorum*, in descending order of frequency, were tissue samples from *Rhododendron* plants (49.4%), tissue samples from *Camellia* plants (15%), water (11%), soil (8%) and tissue samples from *Pieris* plants (7%). No samples were confirmed positive from the other genera considered high-risk, *Viburnum* or *Kalmia*.

Table 2: Samples Confirmed Positive for *P. ramorum* in 2020 by Sample Type.

Sample type	# Positive Samples	% of Total Positive
<i>Rhododendron</i>	87	49
<i>Camellia</i>	27	15
Water	19	11
Soil	14	9
<i>Pieris</i>	13	7
<i>Loropetalum</i>	7	4
<i>Lithocarpus</i>	2	1
<i>Magnolia</i>	2	1
<i>Syringa</i>	2	1
Debris	1	0.6
<i>Leucothoe</i>	1	0.6
<i>Prunus</i>	1	0.6
Total	177	

Figure 1: Number of *P. ramorum* Samples by Type (Soil, Water, Plant species)



Cooperative efforts

USDA provides funds to states for annual nursery surveys, compliance activities and diagnostics. Two sources fund *P. ramorum* surveys in nurseries: PPA Section 7721 (formerly called “the Farm Bill”), and Cooperative Agricultural Pest Survey (CAPS) program. Table 3 lists the states receiving survey funds for FY 20 and FY 21 from PPA Section 7721 and CAPS. In addition to funding annual surveys through PPA 7721 and CAPS in FY 20, USDA provided financial support for compliance and diagnostic activities in California, Louisiana, Oklahoma, Oregon, Pennsylvania, and Washington.

Table 3: States receiving funds for annual *P. ramorum* surveys from PPA Section 7721 and CAPS.

States	FY 20 Funding Source	FY 21 Funding Source
AL	PPA 7721	PPA 7721
AK	CAPS	CAPS
AR	PPA 7721	PPA 7721
CT	PPA 7721	No request
IN	CAPS	CAPS
KS	PPA 7721	PPA 7721
KY	PPA 7721	PPA 7721
LA	PPA 7721	PPA 7721
MA	PPA 7721	PPA 7721
MD	PPA 7721	PPA 7721
MI	PPA 7721	PPA 7721
NC	PPA 7721	PPA 7721
ND	PPA 7721	No request
NV	PPA 7721	PPA 7721
NY	PPA 7721	CAPS
OH	PPA 7721	PPA 7721
OK	PPA 7721	PPA 7721
PA	Not funded	PPA 7721
RI	PPA 7721	No request
SC	PPA 7721	PPA 7721
TN	PPA 7721	PPA 7721
VA	PPA 7721	PPA 7721
VT	No request	PPA 7721
WV	PPA 7721	PPA 7721
Totals	22	21