



United States Department of Agriculture

Animal and Plant Health Inspection Service

Pest Management - Plant Health Programs – Program Update

APHIS *Phytophthora ramorum* Program 2014, 2nd Quarter Summary; June 30th, 2014

Background and History:

The APHIS-PPQ *P. ramorum* regulatory program initiated with the First Interim Rule February 14, 2002, is now in its 14th year. With the inclusion of Trinity County in 2014 as the new quarantine area, in total there will be 15 counties designated as quarantined for sudden oak death (SOD) in California. In addition, 264 square miles in Curry County, in Oregon are also designated as quarantine areas. The remaining counties in California and Oregon, and the entire state of Washington are designated as regulated areas for inter-state shipment of nursery stock. Outside the currently quarantined counties *P. ramorum* has been detected only in the nursery environment and occasionally in streams connected to positive nurseries, however, **no** SOD-like disease outbreaks in the forest landscape have been reported. The USDA *P. ramorum* quarantine program, in place since 2002, has been successful in limiting the pathogen's artificial spread into the environment beyond the currently quarantine areas. The *P. ramorum* program in consultation with stakeholders has funded and developed several survey and remediation protocols, outreach and training initiatives. These efforts have benefitted the nursery industry by assuring the commercial movement of disease-free plants. In total, between January 1st to June 30th, 2014, *P. ramorum* was reported 13 host nurseries located in three regulated states (CA, OR and WA) and 3 non-regulated states (NY, TX, and VA). *P. ramorum* was detected in *Camellia*, *Gaultheria*, *Pieris*, *Prunus*, *Rhododendron*, *Syringa*, *Vaccinium*, and *Viburnum* species, and also in Water, Potting Media and Soil.

APHIS-PPQ with state regulatory agencies implements the revised *P. ramorum* regulatory framework and associated protocols.

Since March 31, 2014 the Animal and Plant Health Inspection Service (APHIS) along with the state regulatory agencies has started implementing the revised *P. ramorum* regulatory framework and associated protocols. This is based on the January, 2014 Federal Order (DA-2014-02) revising the *P. ramorum* domestic quarantine regulations by relieving and/or imposing regulatory requirements for the interstate movement of host nursery stock from nurseries located in the regulated and quarantine areas in California (CA), Oregon (OR), and Washington (WA) and across the country http://www.aphis.usda.gov/plant_health/plant_pest_info/pram/downloads/pdf_files/DA-2014-02.pdf

The first round of inspection and sampling occurred in 23 qualifying nurseries in CA, OR, and WA. These are nurseries that ship interstate and were found positive since March 31, 2011.

Regulatory samples were taken from host plants, standing water, drainage water, irrigation water, growing media, and any other articles designated by the inspector as a possible source of *P. ramorum* inoculum.

Inspections and sampling protocols for nurseries under the revised Federal Order DA-2014-02:
http://www.aphis.usda.gov/plant_health/plant_pest_info/pram/downloads/pdf_files/Inspection_Sampling_Protocol.pdf

Water sampling Protocol:
http://www.aphis.usda.gov/plant_health/plant_pest_info/pram/downloads/surveyplan/appendixI.pdf

As of June 30, Critical Control Point Assessments were required in four of the 23 nurseries as *P. ramorum* was again detected in those nurseries. To retain interstate shipping status, all critical control points identified by APHIS must be addressed by mitigation measures detailed in the compliance agreement. State departments of agriculture in CA, OR and WA is maintaining a public website listing all nurseries in their state eligible to ship interstate.

Official Regulatory Protocol for Nurseries Containing Plants Infected with Phytophthora ramorum:
http://www.aphis.usda.gov/plant_health/plant_pest_info/pram/downloads/pdf_files/ConfirmedNurseryProtocol.pdf

The revised regulations will also apply for nurseries shipping host plants interstate and located outside of regulated and quarantined areas if *P. ramorum* was detected at the nursery on or after March 31, 2014. Until June 2014, *P. ramorum* has been detected in only one interstate shipper located in TX, a non-regulated state. However, the positive plant was received by the nursery within two months of shipping and was detected due to a trace-forward investigation from a positive nursery. After reviewing the documentation APHIS determined this to be a regulatory incident and fully mitigated during the Confirmed Nursery Protocol and the Quarantine Period. Two inspections in the TX nursery during the quarantine period did not reveal additional positive plants.

For any nursery in the new compliance program, if all samples obtained from the nursery test negative for *P. ramorum* for three years from the first inspection after the effective date of the revised Federal Order (March 31, 2014), the nursery will be relieved of all Federal regulatory requirements for the interstate shipments of *P. ramorum* regulated, and associated articles following corroboration of the test results for all three years.

As of June 2014, 23 regulated nurseries located in CA, OR and WA are required to notify non-regulated states of high risk genera shipments. Of these 7 nurseries are located in CA, 14 in OR and 2 in WA.

Program Updates: Nursery Detections to date (2000 – March 2014)

Year	# Nurseries	# States	Notes
2000, and prior	Zero		There were no reported nursery detections prior to 2001
2001	One	California	In infested area
2002	Zero		
2003	20	3	CA, OR, WA
2004	176	21	125 linked to one nursery's shipments
2005	99	7	
2006	62	11	
2007	23	6	
2008	28	8	
2009	26	11	Also, 6 landscape detections in 4 states; Data 2009 , Dec 31st
2010	34	13	33 nurseries, and 1 greenhouse, 2 landscape detections.
2011 Jan-Dec	23	5	23 nursery detections, 1 residential, 1 landscape
2012 Jan-Dec	33	8	33 Detections were in nurseries located in CA, OR, WA, NC, ME, NY, PA. IN and 3 Residential finds (ME, OR, CA)
2013 Jan-Dec	18	4	15 detections in CA (1), OR (10) and WA (6), NY (1). Detections were in 14 inter-state shippers and 4 retail, non-interstate shipping nurseries
2014 Jan-June	13	6	Positive nurseries were in CA (1); OR (5) and WA (2), NY (2); TX (1) and VA (2). Detections were in 7 inter-state shippers and 6 retail, non-interstate shipping nurseries

Details of detections from January to June 30, 2014:

Between, January 1 to June 30, 2014 *P. ramorum* has been reported in 13 host nurseries located in three regulated states (CA, OR and WA) and three non-regulated state (NY, TX and VA).

Of the 13 positive nurseries, 7 were inter-state shippers and 6 non-interstate shippers. The interstate shippers were located in CA (1); OR (4), Washington (1) and TX (1). The TX nursery was positive due to plants received from the positive nursery in CA. Only 3 of the inter-state shippers had actually shipped in the previous 6 months and trace investigations are underway. No host plants were shipped from the positive nursery in TX.

***P. ramorum* detections in various Critical Control Points (plants, soil, water, potting media):**

Plants:

P. ramorum was detected in;

High Risk Hosts: *Camellia*, *Pieris*, *Rhododendron* and *Viburnum*

Associated hosts: *Gaultheria*, *Prunus*, *Syringa* and *Vaccinium*

Associated articles:

Potting Media

Sanding water associated with soil

Water

PLANT SPECIES/VARIETY	STATE	COUNTY	DATE CONFIRMED
Viburnum tinus 'Spring Bouquet'	CA	Sacramento (Regulated)	28-May-14
Viburnum tinus 'Spring Bouquet'	CA	Sacramento (Regulated)	28-May-14
Viburnum tinus 'Spring Bouquet'	TX	Tarrant	10-Jun-14
Viburnum tinus 'Spring Bouquet'	WA	King (Regulated)	2-May-14
Water (Bait) Sample	NY	Nassau	6-Jun-14
Water (Bait) Sample	NY	Nassau	6-Jun-14
Water (Bait) Sample	NY	Nassau	6-Jun-14
Water (Bait) Sample	NY	Suffolk	6-Jun-14
Water (Bait) Sample	NY	Suffolk	6-Jun-14
Water (Bait) Sample	NY	Suffolk	6-Jun-14
Water (Bait) Sample	OR	Clackamas (Regulated)	19-May-14
Water (Bait) Sample	VA	Virginia Beach	9-May-14
Water (Bait) Sample	VA	Virginia Beach	28-May-14
Water (Bait) Sample	WA	Lewis (Regulated)	29-May-14

Positive Notes: *Camellia* (17); *Gaultheria* (14); *Pieris* (8); Potting Media (1); *Prunus* (1); *Rhododendron* (15); Soil Sample (6); *Syringa* (2); *Vaccinium* (1); *Viburnum* (31); Water (Bait) Sample (10)

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