



Animal and Plant Health Inspection Service
Pest Management - Plant Health Programs – Program Update

Program: *Phytophthora ramorum* Date: September 2012

APHIS *Phytophthora ramorum* Program 2012, 3rd Quarter Summary

Background and History:

The APHIS-PPQ *P. ramorum* regulatory program initiated with the First Interim Rule February 14, 2002, is now in its 10th year. Currently 14 counties in California and 202 square miles in Curry County, in Oregon are designated as quarantine areas for *P. ramorum* regulated articles. 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. **Presence of *P. ramorum* in the environment has not caused disease outbreaks in the forest landscape outside the currently quarantined areas in CA and OR.** 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. Between, January 1st to September 30th, 2012 *P. ramorum* has been reported in 8 (CA, OR, WA, NC, ME, NY, PA. and IN) states of which, two detections in the non-regulated states of ME and PA were traced back to a shipper in OR. *P. ramorum* was detected in 33 nurseries in total, in 17 inter-state shipping and 16 non-interstate shipping nurseries. Only 10 of the 17 interstate shippers actually shipped interstate. In total 10 trace investigations were undertaken. Host Plants from *P. ramorum* positive nurseries were shipped to 33 states, however, positive plants due to trace investigations were detected in only 2 non-interstate shipping nurseries (ME, PA) and four residential (ME, CA, OR, WA) locations. Details are provided in this report.

Program Updates:

Regulatory:

Advance Notification Federal Order Review details shared with National Plant Board and Industry Stakeholders

In July 2012, APHIS-PPQ shared the Advance Notification review findings with both the National Plant Board and industry stakeholders. The review concluded that, for the most part, the advance notification requirement has not achieved the stated goals and objectives in a nationally unified manner which is allowing states receiving *P. ramorum* host nursery stock to assign and prioritize resources, assure rapid response and provide direct traceability for any nursery stock known to be positive for *P. ramorum*. Based on the review findings PPQ has proposed a revised Federal Order that would impact only inter-state shippers located in the quarantine counties in CA and OR and also those shippers located in the regulated counties that have a recent history of *P. ramorum* detection. PPQ is currently in discussions with the stakeholders on how operational issues would be handled if the revised Federal Order is issued.

NPB and PPQ Sponsor the *Phytophthora ramorum* Regulators Safeguarding Meeting in Oregon

In late September, PPQ and the National Plant Board (NPB) sponsored the *Phytophthora ramorum* Regulators Safeguarding meeting, held in Salem, Ore. Attendees included representatives from the NPB, PPQ, the Oregon Department of Agriculture, Oregon Association of Nurseries, Washington State Nursery Landscape Association, and the California Association of Nurseries. Industry discussions focused on the Advance Notification Federal Order, Best Management Practices (BMPs) in nurseries, and ways to provide economic incentives for regulated nurseries to voluntarily adopt cost-effective BMPs in their production practices. Researchers with Oregon State University, USDA's Agricultural Research Service, USDA's Forest Service, Washington State University, and the National Ornamental Research Service at Dominican University of California provided regulators with the latest information on *P. ramorum* research, including pathogen spread, epidemiology, critical control points (CCPs) for applying BMPs in positive nurseries, and novel mitigation measures under development. Presenters also shared how to incorporate research findings, mitigation measures, and BMPs/CCPs into the *P. ramorum* program. In addition, meeting participants discussed common issues facing both regulated and non-regulated states and future direction of the *P. ramorum* regulatory framework. A report is expected shortly.

Nursery Detections to date (2000 – September 2012)

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-Sept	33	8	33 Detections were in nurseries located in CA, OR, WA, NC, ME, NY, PA. IN and 3 Residential finds (ME, OR, CA)

Details of detections from January to September 30th, 2012:

Between, January 1st to September 30th, 2012 *P. ramorum* has been reported in 8 (CA, OR, WA, NC, ME, NY, PA. and IN) states of which, two detections in the non-regulated states of ME and

PA were traced back to a shipper in OR. *P. ramorum* was detected in 33 nurseries in total, in 17 inter-state shipping and 16 non-interstate shipping nurseries. Only 9 of the 17 interstate shippers actually shipped interstate.

Of the 17 interstate shippers, 16 were located in the regulated states of CA (2), OR (7), WA (7), and one (1) in the non-regulated state of NY. The 16 non-interstate shippers were located in CA (4), OR (4), WA (3), NC (1), ME (1), NY (1), PA (1) and IN (1). Unusual for 2012 was that 47% (15) of the finds were first time detections, which were located in CA (3), OR (7), WA (2), NY (1), IN (1) the other 48% (16) were repeat nurseries (two detections in the non-regulated states of ME and PA were traced back to a shipper in OR).

In total 10 trace investigations were undertaken. Host Plants from *P. ramorum* positive nurseries were shipped to 33 states, however positive plants due to trace investigations were detected in only 2 (in ME, PA traced back to OR) non-interstate shipping nurseries and four (4) residential locations. Of the four (ME, OR, WA and CA) positive residential finds, two (in ME, and CA) were traced back to a nursery in OR and 2 residential finds in OR and WA was traced back to a WA nursery. Trace investigations resulted in *P. ramorum* positive plant detections in two (2 in Maine and 1 in Pennsylvania) non-regulated states.

State Regulated: R Non-regulated: NR	Total number of positive nurseries	Total number of Positive Interstate shippers	Total number of Interstate shippers Newly ¹ Positive	Total number of Positive Non- interstate shippers	Total number of Non- interstate shippers Newly ¹ Positive
California-R	6	2	1	4	2
Oregon-R	11	7	6	4	1
Washington-R	10	7	1	3	1
North Carolina	1	-	-	1	0
Maine	1	-	-	1*	1*
New York	2	1**	0	1**	1
Pennsylvania	1	-	-	1*	1*
Indiana	1	-	-	1**	1

¹Detected for the first time in 2012

*Detections traced back to a regulated state

**Detected as a result of *P. ramorum* National Surveys

Detections in Plant Species January to September 30th 2012

High Risk Hosts 85%: (82): *Rhododendron* (51), *Camellia* (11); *Viburnum* (10); *Pieris* (7); *Kalmia* (3). **Other Hosts 15%:** (15): *Cornus* (1); *Gaultheria* (4); *Hamamelis* (2); *Loropetalum* (3); *Magnolia* (3); *Trachelospermum* (1); *Prunus* (1). *P. ramorum* was also detected in Potting Media (OR 2); Soil (Total 7; OR 4, CA 2 and WA 1); Water (Total 8, WA 6 and NY 2), Cull Pile (OR 1).

Positive Detections vs. Plant Species Jan – September 30th, 2012

Plant Genus/Species/Variety	State	County	County Status	Date Confirmed
<i>Camellia japonica</i> 'Grand Prix'	OR	Marion	Regulated	4/13/2012
<i>Camellia japonica</i> 'Mathotiana'	CA	San Joaquin	Regulated	4/27/2012
<i>Camellia japonica</i> 'Bella Rossa'	CA	San Joaquin	Regulated	4/27/2012
<i>Camellia japonica</i> 'Mrs. Tingley'	OR	Lane	Regulated	5/31/2012
<i>Camellia japonica</i> 'Pink Parade'	CA	Sacramento	Regulated	6/15/2012
<i>Camellia sasanqua</i>	OR	Polk	Regulated	5/14/2012
<i>Camellia sasanqua</i>	NC	Mecklenburg	Non-Regulated	4/23/2012
<i>Camellia sasanqua</i> 'Mr. Otto'	WA	King	Regulated	6/20/2012
<i>Camellia sasanqua</i> 'Cleopatra'	CA	San Joaquin	Regulated	4/27/2012
<i>Camellia</i> sp.	OR	Polk	Regulated	5/1/2012
<i>Camellia</i> sp.	CA	Mendocino	Quarantine	6/4/2012
<i>Cornus kousa</i>	OR	Polk	Regulated	5/14/2012
Cull Pile material	OR	Polk	Regulated	6/18/2012
<i>Gaultheria procumbens</i>	WA	Lewis	Regulated	5/24/2012
<i>Gaultheria procumbens</i>	ME	Cumberland	Non-Regulated	7/20/2012
<i>Gaultheria procumbens</i>	OR	Lane	Regulated	7/24/2012
<i>Gaultheria shallon</i>	OR	Lane	Regulated	7/24/2012
<i>Hamamelis intermedia</i>	OR	Polk	Regulated	5/14/2012
<i>Hamamelis virginiana</i>	OR	Clackamas	Regulated	7/11/2012
<i>Kalmia latifolia</i>	OR	Polk	Regulated	5/1/2012
<i>Kalmia latifolia</i>	OR	Curry	Quarantine	6/1/2012
<i>Kalmia</i> sp.	NY	Suffolk	Non-Regulated	7/31/2012
<i>Loropetalum chinense</i>	CA	Orange	Regulated	4/13/2012
<i>Loropetalum chinense</i>	CA	Orange	Regulated	6/18/2012
<i>Loropetalum chinense</i> 'Rubrum'	CA	Sacramento	Regulated	5/3/2012
<i>Magnolia grandiflora</i>	OR	Polk	Regulated	5/14/2012
<i>Magnolia grandiflora</i> var. Dwarf Southern	WA	King	Regulated	5/24/2012
<i>Magnolia grandiflora</i>	OR	Marion	Regulated	6/7/2012
<i>Pieris japonica</i>	OR	Curry	Quarantine	6/1/2012
<i>Pieris japonica</i>	OR	Curry	Quarantine	6/7/2012
<i>Pieris</i> 'Mountain Fire'	WA	Pierce	Regulated	4/18/2012
<i>Pieris</i> sp.	NY	Suffolk	Non-Regulated	7/31/2012
<i>Pieris</i> sp.	OR	Washington	Regulated	4/13/2012
<i>Pieris</i> sp.	OR	Washington	Regulated	5/17/2012
<i>Pieris</i> sp.	WA	Pierce	Regulated	5/3/2012
Potting Media	OR	Polk	Regulated	6/18/2012
Potting Media	OR	Washington	Regulated	5/17/2012
Potting Media	OR	Curry	Quarantine	6/28/2012
<i>Prunus laurocerasus</i>	OR	Polk	Regulated	5/14/2012
<i>Rhododendron</i> 'Album'	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron</i> 'Album'	ME	Lincoln	Non-Regulated	9/14/2012

Plant Genus/Species/Variety	State	County	County Status	Date Confirmed
<i>Rhododendron</i> 'Anna Rose Whitney'	WA	King	Regulated	6/20/2012
<i>Rhododendron</i> 'Baden Baden'	OR	Washington	Regulated	4/13/2012
<i>Rhododendron</i> 'Bessie Howell'	OR	Curry	Quarantine	6/1/2012
<i>Rhododendron</i> 'Betty Bob'	OR	Curry	Quarantine	6/13/2012
<i>Rhododendron</i> 'Black Sport'	OR	Curry	Quarantine	6/1/2012
<i>Rhododendron</i> 'Boule de Neige'	CA	Sacramento	Regulated	6/18/2012
<i>Rhododendron</i> 'Boursault'	ME	Lincoln	Non-Regulated	8/8/2012
<i>Rhododendron</i> 'Boursault'	ME	Lincoln	Non-Regulated	8/20/2012
<i>Rhododendron</i> 'Boursault' Purple	CA	Sacramento	Regulated	7/12/2012
<i>Rhododendron</i> 'Bruce Brechtbill'	WA	Pierce	Regulated	5/9/2012
<i>Rhododendron</i> 'Bruce Brechtbill'	WA	Pierce	Regulated	5/17/2012
<i>Rhododendron</i> 'Bruce Brechtbill'	WA	Thurston	Regulated	3/30/2012
<i>Rhododendron catawbiense</i> 'Alba'	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron catawbiense</i> 'Alba'	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron</i> 'Cunningham White'	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron</i> 'Edith Bosley'	WA	King	Regulated	6/12/2012
<i>Rhododendron</i> 'Electra'	OR	Lincoln	Regulated	5/17/2012
<i>Rhododendron</i> 'Haaga'	PA	Northumberland	Non-Regulated	8/20/2012
<i>Rhododendron</i> 'Holden'	OR	Polk	Regulated	4/27/2012
<i>Rhododendron</i> 'Lord Roberts'	WA	King	Regulated	5/24/2012
<i>Rhododendron</i> 'Maximum Roseum'	OR	Curry	Quarantine	6/1/2012
<i>Rhododendron</i> 'Minnetonka'	CA	Sacramento	Regulated	7/12/2012
<i>Rhododendron</i> 'OSU'	OR	Lincoln	Regulated	5/17/2012
<i>Rhododendron</i> 'PJM'	WA	King	Regulated	8/23/2012
<i>Rhododendron</i> 'Purple Elegans'	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron</i> 'Purple Passion'	WA	King	Regulated	5/24/2012
<i>Rhododendron</i> 'Purple Splendor'	WA	King	Regulated	6/14/2012
<i>Rhododendron</i> 'Roseum Elegans'	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron</i> 'Roseum Pink'	ME	Lincoln	Non-Regulated	8/8/2012
<i>Rhododendron</i> 'Roseum Pink'	ME	Lincoln	Non-Regulated	8/20/2012
<i>Rhododendron</i> 'Scintillation'	WA	Clallam	Regulated	5/16/2012
<i>Rhododendron</i> 'Seta'	OR	Curry	Quarantine	6/13/2012
<i>Rhododendron</i> 'Snow Lady'	WA	Clark	Regulated	6/28/2012
<i>Rhododendron</i> sp.	OR	Washington	Regulated	5/17/2012
<i>Rhododendron</i> sp.	OR	Marion	Regulated	6/15/2012
<i>Rhododendron</i> sp.	OR	Marion	Regulated	6/29/2012
<i>Rhododendron</i> sp.	CA	Orange	Regulated	4/13/2012
<i>Rhododendron</i> sp.	CA	Orange	Regulated	6/18/2012
<i>Rhododendron</i> sp.	OR	Clackamas	Regulated	7/10/2012
<i>Rhododendron</i> sp.	OR	Clackamas	Regulated	7/19/2012
<i>Rhododendron</i> sp.	OR	Lincoln	Regulated	4/20/2012
<i>Rhododendron</i> sp.	NY	Suffolk	Non-Regulated	7/31/2012
<i>Rhododendron</i> sp.	WA	King	Regulated	6/27/2012
<i>Rhododendron</i> sp.	IN	St. Joseph	Non-Regulated	9/12/2012
<i>Rhododendron</i> 'Trewithen Orange'	OR	Lincoln	Regulated	5/17/2012

Plant Genus/Species/Variety	State	County	County Status	Date Confirmed
<i>Rhododendron</i> 'Trilby'	CA	Placer	Regulated	8/28/2012
<i>Rhododendron</i> 'Unique'	WA	King	Regulated	6/12/2012
<i>Rhododendron</i> 'Unique'	WA	Skagit	Regulated	6/8/2012
<i>Rhododendron</i> 'War Dance'	CA	Sacramento	Regulated	7/12/2012
Soil (substrate)	OR	Polk	Regulated	6/18/2012
Soil (substrate)	OR	Washington	Regulated	5/17/2012
Soil (substrate)	OR	Washington	Regulated	6/28/2012
Soil (substrate)	WA	Pierce	Regulated	6/25/2012
Soil (substrate)	CA	Sacramento	Regulated	6/27/2012
Soil (substrate)	OR	Tillamook	Regulated	6/6/2012
Soil (substrate)	CA	Orange	Regulated	6/18/2012
<i>Trachelospermum jasminoides</i>	CA	Orange	Regulated	4/13/2012
<i>Viburnum bodnantense</i>	OR	Polk	Regulated	5/14/2012
<i>Viburnum cinnammomifolium</i>	OR	Washington	Regulated	5/17/2012
<i>Viburnum davidii</i>	OR	Tillamook	Regulated	4/27/2012
<i>Viburnum</i> sp.	OR	Washington	Regulated	4/13/2012
<i>Viburnum tinus</i>	OR	Polk	Regulated	4/27/2012
<i>Viburnum tinus</i>	OR	Washington	Regulated	4/13/2012
<i>Viburnum tinus</i>	OR	Marion	Regulated	4/13/2012
<i>Viburnum tinus</i>	WA	Pierce	Regulated	3/30/2012
<i>Viburnum tinus</i> 'Lucidum'	WA	King	Regulated	4/18/2012
<i>Viburnum tinus</i> 'Spring Bouquet'	CA	Sacramento	Regulated	6/6/2012
Water	NY	Suffolk	Non-Regulated	2012
Water	NY	Suffolk	Non-Regulated	2012
Water	WA	Skagit	Regulated	8/3/2012
Water	WA	Thurston	Regulated	5/9/2012
Water	WA	Thurston	Regulated	5/9/2012
Water	WA	Clark	Regulated	5/11/2012
Water	WA	Clark	Regulated	5/24/2012
Water	WA	King	Regulated	6/13/2012

Dated: September 30, 2012, Prakash K. Hebbar *Phytophthora ramorum* National Program
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www.aphis.usda.gov/plant_health/plant_pest_info/pram