USA PHYTOPHTHORA RAMORUM NURSERY CHRONOLOGY

The following information is a summary of the status of Phytophthora ramorum in United States nurseries. For information on Europe’s Phytophthora ramorum nursery infestations, please go to the United Kingdom’s Department for Environment, Food and Rural Affairs (DEFRA), The Forestry Commission of Great Britain, or the European Union’s Europe Agriculture website.

3/18
- Two WA waterways were found positive during the 2017 National Phytophthora ramorum Early Detection Survey of Forests. The pathogen was detected for the first time in Issaquah Creek (King County) at a site downstream from a now-closed previously positive nursery; and also at the Sammamish Slough (King County), where it has been recovered since 2007.

- Diplodia corticola was recovered from symptomatic CA bay laurel and tanoak samples collected near the Stover Ridge area in the Redwood Creek drainage (one of the northernmost known P. ramorum infestations in California) in August 2017. This is the first time this fungal pathogen has been reported causing symptoms on bay that are indistinguishable in the field from P. ramorum. D. corticola is a known pathogen of several species of oaks as well as grapevines in California, and has also been isolated by several surveyors from tanoak, on which it can cause symptoms very similar to those caused by P. ramorum, including bleeding cankers, branch dieback, and in some cases tree mortality.

- The Phytophthoras in Native Habitats Work Group (www.calphyto.org) has joined the California Oak Mortality Task Force as an official committee. This “Other Phytophthoras” committee will focus on addressing threats to CA wildlands from Phytophthoras other than P. ramorum.

2/18
- A Sacramento County nursery undergoing the Confirmed Nursery Protocol (since May 10, 2017) had 5 samples test P. ramorum positive during their 90-day quarantine release inspection in early February. Since May 2017 there have been 159 positive plants in 8 locations at the nursery. All positive plants are Camellias.

1/18
- P. ramorum was not recovered from the 324 samples taken during the fall 2017 quarterly survey of the Kitsap County Botanical Garden in Washington (first found positive in 2015). Water baiting at nine locations throughout the garden was also negative for the pathogen.

11/17
- Phytophthora ramorum was recovered for the first time from seven Arctostaphylos species. Most of the samples tested were collected from field restoration plantings or native stands; some were collected from nurseries. Many of the new potential hosts are considered endangered or threatened, making material difficult to acquire. Prior to these detections, four Arctostaphylos species were federally regulated for P. ramorum. These recent findings suggest that Arctostaphylos susceptibility and infection levels may be greater than previously thought.
• *P. ramorum* was recovered from Brisbane box (*Lophostemon confertus*, syn. = *Tristania conferta*) for the first time from street trees in Sausalito (Marin Co.) in an area with *P. ramorum*-infected bay laurel trees. Symptoms included foliar spotting and necrosis, stem cankers, and overall canopy blight.

• The Kitsap County Botanical Garden, WA (first found positive in 2015) September *P. ramorum* survey was negative for the pathogen. In October, Washington’s only *P. ramorum*-regulated interstate shipping nursery fall certification survey was conducted; all samples were negative for the pathogen.

• One *P. ramorum* detection was made in Richmond, British Columbia (near the Vancouver airport) during the Canadian Food Inspection Agency (CFIA) 2016-2017 Survey for Horticultural Pests.

09/17
• So far in 2017, California has had 17 *P. ramorum* positive nursery finds. Twelve are retail nurseries that do not ship out of the quarantined area; the remaining 5 are undergoing the Confirmed Nursery Protocol. In all, 122 positive plants were discovered.

06/17
• Six new *P. ramorum*-positive nurseries were identified in California during spring surveys. Eight nurseries are currently known to be positive for the pathogen in the state. Two of the nurseries do not meet the federal *P. ramorum* program criteria and therefore will not default to federal regulation. The two previously positive interstate shipping nurseries in Sacramento and Santa Clara Counties that were under the biannual increased sampling protocol were found positive in April and May and will once again have to undergo the confirmed nursery protocol (CNP). Seven of the positive nurseries are in *P. ramorum* quarantine counties and one is in Sacramento County (non-quarantine county).

05/17
• The *P. ramorum* spring certification survey of Washington’s one regulated interstate shipping nursery in Lewis County was conducted in May; all samples were negative for the pathogen.

• Japanese larch (*Larix kaempferi*) was found *P. ramorum* positive for the first time in France in the forest of Saint-Cadou, Finistère in May, in a 50-year-old pure larch plantation (located between Quimper and Morlaix). Previously *P. ramorum* had only been detected in understory vegetation in the natural environment, primarily on rhododendron in Brittany, Normandy, and Pays de la Loire.

• A new *Phytophthora* Research Centre (PRC) has been established at Mendel University in Brno, Czech Republic.

04/17
• A quarterly *P. ramorum* survey of the Washington Kitsap County Botanical Garden (first found positive in 2015) was conducted in April; all samples were negative for the pathogen.
03/17
- The Oregon Sudden Oak Death Task Force convened for the first time, under the leadership of Oregon State Representative David Brock Smith and US Senator Merkley. The Task Force is developing a collaborative action plan to secure adequate funding to contain the Oregon NA1 infestations and eradicate the EU1 lineage.

01/17
- USDA APHIS certification surveys for Washington’s two “opt-in” *P. ramorum* host plant interstate shipping nurseries were negative for the pathogen in 2016. Additionally, all 1,338 samples taken in 2016 from the Kitsap County botanical garden were negative for the pathogen.

- California’s 2016 fall federal *P. ramorum* compliance surveys of 7 previously positive nurseries were all negative for the pathogen. With the conclusion of the third year of negative results, four of these nurseries are pending release from the increased sampling protocol portion of the program, leaving three nurseries remaining with the additional oversight.

12/16
- In 2016, four previously positive opt-in CA nurseries were released from the federal *P. ramorum* compliance program confirmed nursery protocol (CNP). Another nursery found to have four positive samples in 2016 is currently undergoing the Confirmed Nursery Protocol and has decided to opt-out of the federal program, relinquishing interstate shipping rights. The remaining 2 nurseries in the compliance program are currently undergoing spring sampling. Pending successful sampling, one is scheduled to be released in 2017 and another in 2020.

09/16
- Water and soil samples at a Sacramento County nursery were found negative for *P. ramorum* following confirmation of infested camphor (*Cinnamomum camphora*) trees at the facility in August 2016.

- *Phytophthora quercina* was recently isolated from valley oaks (*Quercus lobata*) as part of an evaluation of restoration sites managed by the Santa Clara Valley Water District. It has been rated the #1 *Phytophthora* species of concern for introduction into the US in a USDA Plant Epidemiology and Risk Analysis Laboratory (PERAL) report.

- Nine samples from 4 locations were *P. ramorum* positive so far in the 2016 National *P. ramorum* Early Detection Survey of Forests. Three locations are in AL; one location with 3 positives is in MS. All positive samples were collected from streams associated with previously positive nurseries.

08/16
- The SANC Program had its first pilot facilities sign agreements with their respective state regulatory agencies, allowing them to ship interstate nursery stock certified under the SANC Pilot Program. There are currently eight facilities participating in the SANC Pilot Phase 1, three of which have signed SANC Agreements.
• A Sacramento County nursery had 2 camphor (*Cinnamomum camphora*) trees with branch cankers and foliar symptoms found to be *P. ramorum* positive in August. The nursery ships interstate and has been undergoing the confirmed nursery protocol (CNP) since June, 2016. A Santa Clara County nursery, currently part of the USDA *P. ramorum* program, was also found *P. ramorum* positive in May when one *Loropetalum* plant was identified as positive. The nursery completed the Alternative Quarantine Release Strategy.

• A July survey of the Washington Kitsap County botanical garden (*P. ramorum* positive in 2015) was negative for the pathogen. Surveys have been conducted throughout 2016 near previously positive sites or in outlying areas of the garden, with all results negative since January.

07/16

• Two CA interstate shipping nurseries (Santa Clara and Sacramento Counties) were found *P. ramorum* positive during spring inspections.

• A retail nursery in Humboldt County was found with a *P. ramorum*-positive *Leucothoe* plant during a routine annual nursery inspection. This facility has previously been positive for the pathogen.

• Monthly surveys of the Kitsap County, WA botanical garden were negative for the pathogen throughout spring (April, May, June) sampling.

• Samples collected at WA’s two nurseries participating in the USDA APHIS *P. ramorum* interstate shipping certification program (opt-in nurseries) were negative for the pathogen during their spring certification surveys. A previously positive King County nursery also completed its 2-year follow-up inspection with all samples were negative for the pathogen.

06/16

• As of June 1st, USDA APHIS revised conditions for the interstate movement of regulated soil from *P. ramorum* quarantined areas when the soil is moving to an APHIS-approved soil laboratory for physical or chemical analysis. This action removes the certification requirement and authorizes movement under a compliance agreement. The movement of bulk soil for other purposes (e.g., disposal, landscaping, use in potting media) is not included in this action and will continue to require certificates per the Code of Federal Regulations (7 CFR 301.92). This action does not include soil to be moved for the isolation of plant pests, which is regulated in accordance with 7 CFR, Part 330.

• The *P. ramorum* Safeguarding Working Group and the *P. ramorum* Regulated Plant Working Group met at NORS-DUC and formed a working group that will review plants currently on the regulated list.

• A patent (US 9,320,283 B2) has been approved for the use of *Trichoderma asperellum* to remediate *P. ramorum*-infested soil. Information is being assembled for EPA registration to license its commercial and public use as a biological control agent against *P. ramoram*.

05/16
After a positive find in 2015, monthly surveys of the Kitsap County botanical garden were negative for *P. ramorum* in February and March; results from perimeter and riparian area surveys are pending.

Eight eastern states (AL, FL, GA, MS, NC, PA, SC, and TX) participated in the 2015 National *P. ramorum* Early Detection Survey of Forests; 3 of the 566 samples taken were *P. ramorum* positive - two from AL (first detection in 2009) and one from NC (first detection in 2010). All samples were collected from streams associated with previously positive nurseries.

Fifteen Oregon nurseries are participating in the 2016 annual *P. ramorum* recertification process - 11 are a part of the federal (interstate) certification program and four are part of the state (intrastate) program.

The Midpeninsula Regional Open Space District Board of Directors approved $524,000 for SOD and nursery-related Phytophthoras research and management over the next 10 years. Areas of focus will include SOD-related preventative treatments, tanoak resistance, and oak forest restoration, as well as further development of clean nursery practices.

02/16

- The 2016 Farm Bill, Plant Pest and Disease Management and Disaster Prevention Program (Section 10007) awarded $1,284,528 in *Phytophthora ramorum*-related program funding to 17 states with California receiving $692,308 of the available funds.

- The Systems Approach to Nursery Certification (SANC) initiative aims to improve the process for certifying nursery stock and reducing pest risk movement at the interstate shipping level. A pilot project to test the feasibility of the risk-based certification program was implemented 15 months ago at eight nursery and greenhouse facilities, all of which completed risk assessments. SANC program representatives are considering a Phase 2 Pilot Project which would include a second group of nurseries and greenhouses.

12/15

- Two new *P. ramorum*-positive plants were confirmed at the Kitsap County, WA botanical garden. Both plants were in close proximity to one another and to a previously positive site.

- In 2015, the CDFA Plant Pest Diagnostic Center tested 7,613 plant, water, and soil samples for *P. ramorum*. Two of the samples were positive and the result of a trace-forward investigation from a positive Washington nursery. Ninety-one nurseries in the quarantine area received monthly inspections to retain their *P. ramorum* clean nursery stock certification, allowing them to ship host material outside of the quarantine zone. The seven nurseries participating in the USDA’s *P. ramorum* compliance program for previously positive nurseries were all negative for the pathogen.

- In 2015, *P. ramorum* was recovered from 18 nurseries (AL 1, CA 1, NY 1, OR 12, WA 1, VA 2), one commercial landscape (LA), two residences (OH, OR), and a botanic garden (WA) in non-quarantine areas. The pathogen was detected in *Arctostaphylos* (1); *Camellia* (3); *Gaultheria* (1); *Kalmia* (1); *Mahonia* (1); *Osmanthus* (1); *Pieris* (6); *Rhododendron* (57); soil samples
Eight of the nurseries ship interstate and are in the USDA APHIS federal compliance program (Federal Order DA-2014-02). Six of the eight actually shipped interstate. The Confirmed Nursery Protocol has been completed in 16 of the 18 nurseries and resulted in two site detections (1 CA nursery, 1 OH residence) from one of the positive interstate shippers.

- The seven California nurseries that opted into the USDA Animal and Plant Health Inspection Service *P. ramorum* Compliance Program completed their fall inspections, collecting a total of 3,073 plant, water, and soil samples, which all tested negative for the pathogen.

- Extensive surveys at the Kitsap County, WA botanical garden found no pathogen in the perimeter of the property or in the neighboring native woodland. Four new detections were found in the managed garden proper, on *Rhododendron* (2), *Camellia* (1), and *Vaccinium* (1), with a fifth positive on a *Gaultheria* was found during a delimitation survey. All detections were in close proximity to previously positive sites, and all infected plants were destroyed in November.

- So for in 2015, *P. ramorum* was reported in 13 nurseries (CA 1, NY 1, OR 9, WA 1, VA 1), one commercial landscape (LA), two residences (OH, OR), and a botanic garden (WA) in non-quarantine areas on plants (*Arctostaphylos* (1); *Camellia* (3); *Gaultheria* (1); *Kalmia* (1); *Mahonia* (1); *Osmanthus* (1); *Pieris* (5); *Rhododendron* (43); *Vaccinium* (5); *Viburnum* (9); *Vinca* (1)), soil samples (13), and water samples (2).

08/15

- The EU1 lineage has been recovered from a tanoak in Oregon, for the first time on US forest vegetation (previously only found in nurseries, streams, and European forests). The pathogen was first isolated by OSU in February 2015; in May 2015, USDA ARS completed their periodic genotyping and identified the EU1 clonal lineage. The lone EU1-infected tree was located on non-industrial private land, approximately 1 mile north of a small private (now closed) nursery near the Pistol River (Curry Co.) that had previous *P. ramorum* confirmations (August 2012). Comparison of the genotypes of the tanoak and nursery isolates suggests the nursery as the probable source for the forest infestation.

- From January 1 to August 6, 2015, *P. ramorum* has been reported in 13 nurseries (CA 1, NY 1, OR 9, WA 1, VA 1), one commercial landscape (LA), two residences (OH, OR), and a botanic garden (WA) in non-quarantine areas on *Arctostaphylos* (1); *Camellia* (2); *Kalmia* (1); *Mahonia* (1); *Osmanthus* (1); *Pieris* (5); *Rhododendron* (41); soil samples (8); *Vaccinium* (4); *Viburnum* (9); *Vinca* (1); and a water sample (1). The OH and OR residential confirmations were the result of trace-forward investigations from a positive WA nursery.

07/15

- The Kitsap County, WA botanical garden had a new *P. ramorum*-positive *Rhododendron* confirmation, from the same vicinity of the garden as all of the other hosts that have been found positive since March. The rhododendron and
surrounding plants have been destroyed and steam treatment of the soil is underway.

- Trace-forward investigations from a WA nursery identified 8 *P. ramorum* positive plants at a Humboldt County nursery. All infested plants were destroyed and follow-up inspections were negative.

- A Critical Control Points (CCP) Assessment of the *P. ramorum*-positive Kitsap County botanical garden was performed. After the detection of *P. ramorum* on a *Pieris* plant at the garden in April 2015, a delimitation survey found 10 other plants in the same general area that were *P. ramorum* positive: rhododendron (3), viburnum (3), pieris (1) camellia (1), mahonia (1), and vinca (1). All positive plants and nearby host plants have been destroyed.

**06/15**

- Five new *Phytophthora ramorum* hosts were detected in February on Marin County Municipal Water District property: *Arctostaphylos virgata*, *Arctostaphylos glandulosa*, chinquapin (*Chrysolepis chrysophylla*), blackberry (*Rubus ursinus*), and chaparral pea (*Pickeringia montana*).

- A Kitsap County botanical garden had additional *P. ramorum* positive plants found in May during a delimitation survey. All infected plants were destroyed and trace-back investigations are underway.

- *Vaccinium parvifolium* (red huckleberry) was found *P. ramorum* positive for the first time from two samples taken at a Lewis County, WA interstate shipping nursery during their 2015 spring Federal *P. ramorum* Certification Program survey.

- From January 1 to June 3, 2015, *P. ramorum* was reported in 10 nurseries (OR 8, WA 1, VA 1), one commercial landscape (LA), and a botanical garden (WA) in non-quarantine areas. *P. ramorum* was detected in *Camellia* (2), *Kalmia* (1), *Mahonia* (1), *Osmanthus* (1), *Pieris* (10), *Rhododendron* (40), *Viburnum* (4), *Vinca* (2), and soil samples (8).

- All seven California nurseries participating in the 2015 Federal *P. ramorum* Certification Program were negative for *P. ramorum*. Forty-seven nurseries in the quarantined counties also completed their annual inspection and all were negative for the pathogen.

- Fourteen native plant nurseries have joined the CDFA BMP for Ornamental and Native Plant Nurseries, joining 14 ornamental nurseries already participating.

- The Oak Phosphonate Application Recommendations for Sudden Oak Death were revised.

**05/15**

- *Phytophthora ramorum* has been detected in 4 of 10 Oregon nursery locations participating in the Federal *P. ramorum* Certification Program. In addition, 3 of 5 nurseries that opted out of the Federal Certification Program in 2014 have been surveyed, with pathogen detections in 2 of these nurseries.
• Two Puget Sound, WA residential landscapes were sampled as part of a *P. ramorum* trace-forward investigation from an out-of-state nursery; all samples were negative.

• A mature *Pieris* plant at a Kitsap County, WA botanical garden was found *P. ramorum* positive.

• California has completed inspecting 6 of the 7 nurseries participating in the Federal *P. ramorum* Certification Program, with all sampled nurseries negative for the pathogen. Forty-seven nurseries in the quarantined counties have also completed their annual inspection, with all negative for the pathogen (to date). A total of 2,464 plant, water, and soil samples have been analyzed from CA nurseries so far.

• Two Washington waterways in Kitsap and Thurston Counties have been found positive for *P. ramorum*. Both waterways have been positive in previous years and are downstream from previously positive nurseries.

**04/15**

• APHIS issued a Federal Order on 4/3/15, expanding the area federally quarantined for *P. ramorum* in California to include Trinity County. Consequently, all interstate movement of *P. ramorum* regulated articles from Trinity County must be done in accordance with any applicable provisions of the Federal Order and the regulations promulgated pursuant to the Plant Protection Act found at 7 CFR 301.92 et seq.

• From January 1-March 25, 2015, *P. ramorum* was reported in six nurseries (OR) and one commercial business site (not a nursery; LA) throughout the US in non-quarantine areas.

**03/15**

• Washington received *P. ramorum* positive-plant shipments from three out of state nurseries in March.

• The 2014 Farm Bill awarded roughly $796,717 in *Phytophthora ramorum*-related program funding to 19 states for the 2015 federal fiscal year. California received $109,000 for survey efforts, confirming the pathogenicity and host range of the pathogen, and assessing disinfectants for *P. ramorum* control. The NORS-DUC site received separate funding of $474,303.

• Australia has issued a “Draft review of policy: importation of *Phytophthora ramorum* host propagative material into Australia.” Proposed changes include updating the *P. ramorum* host list and adding additional hosts of *P. kernoviae, P. nemorosa*, and *P. pseudosyringae*; reducing the post-entry quarantine (PEQ) growth period for dormant cuttings and budwood; and allowing the importation of 1-year-old, bare-rooted plants without foliage.

• The 2014 National *P. ramorum* Early Detection Survey of Forests conducted stream surveys in CA, OR, WA, and 9 Eastern states. Positive samples were collected in CA (19), OR (6) WA (2), AL (4), FL (1), MS (2), and NC (2). Two of the positive streams (AL-1; FL-1) have not been previously positive and are each associated with a positive nursery; another Alabama positive stream has not been previously positive but is not associated with a positive nursery.
• Shrub tanoak (*Notholithocarpus densiflorus* var. *echinoides*) was confirmed as a *P. ramorum* host by the UC Davis Rizzo lab in collaboration with UC Cooperative Extension-Humboldt/Del Norte.

01/15

• In 2014, 146 California waterways were monitored for *P. ramorum*. The pathogen was detected for the first time in six watersheds (Beaver, Butte, and Cooper Creeks in Humboldt County; and North Fork of the Big River, Chamberlain and Hare Creeks in Mendocino County). Overall, recovery from known positive watersheds was only 13 (54%) of 24 previously positive sites, likely because of low spring rainfall.

• Twenty-four Oregon nurseries participated in the USDA APHIS certification program in 2014, resulting in a total of 8 pathogen detections from plants, used pots, potting media, and water sources. Of the eight positive nurseries identified, 4 opted out of, or were removed from, the federal program and are now subject to Oregon’s state quarantine requirements for *P. ramorum*, which includes mandatory testing to ensure there is no intrastate movement of the pathogen from these locations. The other 4 are currently operating under modified compliance agreements that include mandatory BMPs to address specific hazards at their nurseries. Seven nurseries tested pathogen free and continue to participate in the federal program.

• Native plant and restoration nurseries are joining the California Department of Food and Agriculture (CDFA) Best Management Practices (BMP) Program in response to detection of *Phytophthora tentaculata*.

12/14

• So far in 2014, *P. ramorum* was reported in 19 nurseries in 3 regulated states (CA, OR and WA) and 4 non-regulated states (ME, NY, TX, and VA). Of the 19 positive nurseries, 8 were interstate shippers and 11 were non-interstate shippers.

• Twenty-three nurseries in CA, OR, and WA underwent the enhanced USDA APHIS compliance program to continue shipping host nursery stock interstate. Four of the 23 facilities no longer ship interstate; however, two nurseries were added to the compliance program due to *P. ramorum* confirmations, bringing the total number of participating nurseries to 21. A total of 8 nurseries in the program had *P. ramorum* detections this year.

• So far in 2014, California has had one *P. ramorum*-positive nursery identified in Sacramento County. A total of 13,839 samples were taken from nurseries statewide but many of those were prior to the USDA Animal and Plant Health Inspection Service (APHIS) March 2014 rule change that only previously positive nurseries and interstate shipping nurseries within the quarantined area need to be inspected. Since the March rule, 3,360 samples have been taken from 7 previously positive nurseries.

10/14

• Thus far in 2014, *P. ramorum* has been reported in 18 U.S. nurseries. Ten facilities are in regulated states (CA-1, OR-7, and WA-2) and eight are in non-regulated states (ME-1, NY-2, TX-1, and VA-4). Eight of the 18 positive
nurseries were interstate shippers (CA1; OR-4; WA-1; TX-1; VA-1) and 10 did not ship interstate. The Confirmed Nursery Protocol was conducted in all nurseries.

- Eight nurseries and greenhouses have agreed to participate in a pilot project to test the processes and procedures developed by the Systems Approach to Nursery Certification (SANC) program to implement a systems approach to nursery stock certification. The grower facilities and state regulatory staffs from Pennsylvania, New Jersey, Georgia, Oklahoma, Wisconsin, Missouri, Washington, and Oregon will be participating along with support staff from Extension, AmericanHort, and the Society of American Florists.

- Thirteen Oregon nurseries (one with two locations) opted into the Federal P. ramorum Certification Program, while three nurseries opted out; all 17 nursery locations were surveyed, with P. ramorum detected in five opt-in nurseries. The positive nurseries were located in Washington (2), Clackamas (2), and Lane Counties. After the sampling, two of the positive nurseries decided to opt out of the federal program. In addition to the opt-in nurseries, P. ramorum was detected in an opt-out nursery on plants and in soil substrate beneath positive plants. The USDA CNP was enacted and the delimitation survey identified additional positive plants. After treatment, a positive Rhododendron sp. was identified at the nursery during the 90-day quarantine hold period, requiring the CNP to be completed a second time. Two P. ramorum-positive plants were also identified at a non-regulated Columbia County nursery during an annual inspection; the nursery ships interstate and will be considered an opt-in nursery for future regulatory activities. P. ramorum was detected in a Coos County residential landscape infecting a plant that had been purchased and imported from a positive Washington nursery.

08/14
- Of the 360 samples from 11 states (AL, CA, FL, GA, MS, NC, NY, OR, PA, TX, and WA) participating in the 2014 National P. ramorum Early Detection Survey of Forests, seven were found P. ramorum positive (AL-3; FL-1; MS-2; NC-1). Six of the positives were from streams and associated nurseries that had previous positives. One AL waterway had not been previously positive and was not associated with a stream or nursery that had previously been found positive.

- New Zealand has implemented emergency regulations as of August 14th regarding importation requirements for cut flowers and foliage of Gaultheria spp. from Canada and the US to mitigate risks of P. ramorum.

07/14
- From 1/1/14-6/30/14, P. ramorum was reported in 13 nurseries in 3 regulated states (CA, OR and WA) and 3 non-regulated states (NY, TX, and VA). Of the 13 positive nurseries, 7 were interstate shippers (CA-1; OR-4; WA-1; TX-1) and 6 were non-interstate shippers. The TX interstate shipping nursery was positive due to plants received from a positive CA nursery; measures were adopted to mitigate the risk. Three of the interstate shippers had shipped in the previous 6 months. P. ramorum was detected in Camellia (17), Pieris (8), Rhododendron (15), Viburnum (31), Gaultheria (14), Prunus
• Of the 23 nurseries participating in inspections under the newly revised *P. ramorum* regulatory framework, 4 in the regulated states (CA, OR, and WA) were found *P. ramorum* positive. Until June 2014, *P. ramorum* has been detected in only one interstate shipper located in TX (noted above). Since the positive plant was received by the nursery within 2 months of shipping and was detected during a trace-forward investigation, APHIS determined this to be a regulatory incident and fully mitigated during the Confirmed Nursery Protocol and quarantine period.

**06/14**

• A new waterway in Kitsap County, Washington was found *P. ramorum*-positive twice from samples collected in March and May. The site is downstream from a previously positive nursery. Sixteen waterways in six counties were monitored in all for the pathogen from March to June (2014), with no other confirmations made.

• Since the revision of federal regulations in April 2014, *P. ramorum* has been detected at six interstate shipping facilities (CA-1, OR-4, and WA-1) and four retail nurseries (OR-1, WA-1, and VA-2). *P. ramorum* positives were detected on: *Viburnum* (29); *Gaultheria* (14); *Rhododendron* (14); *Pieris* (7); *Camellia* (5); water baiting (4); soil (3); *Syringa* (2); potting media (1); *Prunus* (1); and *Vaccinium* (1).

• Oregon has so far identified five *P. ramorum*-positive nurseries. One Marion County nursery is an intrastate (opt-out) shipper with infected *Pieris*, *Rhododendron*, *Leucothoe*, and *Viburnum*. The other four nurseries are interstate (opt-in) shippers in Tillamook (positive *Gaultheria* and *Rhododendron*), Washington (positive *Rhododendron* and used potting media), Clackamas (positive *Pieris* and retention pond water), and Lane Counties (positive *Rhododendron*).

**05/14**

• California had one *P. ramorum*-positive interstate (opt-in) shipping nursery, at a Sacramento County facility during a compliance agreement inspection. The facility was also found positive in 2009, 2010, and 2011. Infections were found on *Camellia japonica*, *Syringa vulgaris*, and *Viburnum tinus*.

**02/14**

• CDFA confirmed SOD has been found in Trinity County, less than 600 yards over the Humboldt County line, in an 80-acre BLM parcel adjacent to the Six Rivers National Forest. Trinity County is now the 15th California county known to have SOD. CDFA has submitted and finalized an emergency regulation change adding Trinity County to California Code of Regulations 3700, Oak Mortality Disease Control. As a regulated county, Trinity will be required to follow state and federal quarantine guidelines for the disease.

• In 2013, 11 *P. ramorum* stream baiting sites were established in western Washington waterways, of which two were identified as positive - one in Clallam County and one in Thurston County. Eleven additional sites were
repeatedly sampled in Clallam County as the source of the inoculum there is unknown; however, results to date have been negative or inconclusive.

- Five new positive waterways were identified during the 2013 National *P. ramorum* Early Detection Survey of Forests conducted by US Forest Service, Forest Health Monitoring and cooperating states. Assays were conducted at 104 stream sites in 12 states nationwide. *P. ramorum* was confirmed at two new sites in CA, two new sites in WA, and one new site in TX. Sites previously positive for *P. ramorum* were confirmed in AL, MS, NC, and TX.

**01/14**
- USDA APHIS issued Federal Order DA-2014-02 on January 10, 2014 (implementation date of March 31, 2014). This Order requires an enhanced compliance program for high-risk nurseries while allowing nurseries without any positive pathogen detections in the last three years to be relieved of annual inspections and certifications.

- In 2013, the California Department of Food and Agriculture inspected 1,575 nurseries and processed 18,013 *P. ramorum* compliance samples. The pathogen was detected only once, on a *Loropetalum chinense* (5 gal) plant at one nursery (Gilroy, Santa Clara Co.) which was also positive in 2004 and 2005.

- The Oregon Department of Agriculture tested 22,550 samples from 552 grower sites for *P. ramorum* in 2013. *Phytophthora* species were detected at 238 of the sites surveyed with *P. ramorum* detected in 10 facilities. Two of the positive facilities that still have *P. ramorum* present in the native soil beneath infected plants have agreed to trial steam treatments of the infested soil to eradicate the pathogen.

**12/13**
- Washington identified six *P. ramorum*-positive nurseries in 2013. Of the 22 previously positive nurseries surveyed, four were found positive again for the pathogen. A retail garden center in Kitsap County with positive plants was also found to have infested runoff water and soil. A King County re-wholesaler was found to have positive soil as well as infected plants.

**11/13**
- Effective November 27, 2013, USDA APHIS added *Gaultheria procumbens* to the list of host plants regulated for *P. ramorum*.

- The Republic of Korea issued a Notification of Emergency Measures Addendum to their *P. ramorum* Phytosanitary measures, adding *Gaultheria procumbens* to their list of regulated associated host plants. As of November 22, 2013, all imported *Gaultheria procumbens* from prohibited and regulated areas must have a phytosanitary certificate verifying the shipment was inspected and found free of *P. ramorum*.

**09/13**
- *P. ramorum* detected infecting a *Parrotia persica* (Persian ironwood) plant in a Multnomah County, Oregon nursery during an annual compliance survey. This nursery was previously positive in 2010.
07/13
• USDA APHIS issued Federal Order DA-2013-27 on 7/3/13 so that nurseries located in the regulated areas of California, Oregon, and Washington that do not contain nor ship host or associated plant nursery stock are no longer required to comply with 7CFR 301.92. This Federal Order does not change the requirements for P. ramorum host nurseries in the regulated areas and all interstate shipping nurseries located in quarantine areas, including those that contain only non-host nursery stock.

• To date this year, 17 nurseries in four states have been found P. ramorum positive: CA(1), OR(9), WA(6), and NY(1). Twelve are interstate shippers and 5 are retail establishments.

06/13
• P. ramorum-positive water samples were identified at two new waterways in Washington, a river in Clallam County and a creek in Thurston County. The water positive in Thurston County was downstream from a previously P. ramorum positive nursery, while the Clallam County water positive was not.

• A Snohomish County, WA production nursery was found to have P. ramorum-positive Viburnum tinus and Pieris japonica on 6/20/13. The nursery was previously positive in 2011.

05/13
• Rhododendron plants found positive at a Lane County, OR retail nursery. This is a repeat find.

• P. ramorum was found at two Washington state nurseries (Thurston and King Counties) that sell to the landscape trade.

04/13
• A Gilroy nursery (Santa Clara County) was confirmed positive for P. ramorum on a Loropetalum chinense (5 g) plant. This facility was previously positive in 2004 and 2005.

• Oregon had three P. ramorum-positive nurseries identified: a Clackamas County facility was found to have infected Camellia, Gaultheria, Pieris, Rhododendron, Trachelospermum, and Viburnum; and two Washington County nurseries were also found with P. ramorum-positive Rhododendron sp., Magnolia grandiflora, and Viburnum ‘Pink Dawn.’

• The Kitsap County, Washington retail garden center found positive in March 2013 had a positive soil sample confirmed at the nursery in April 2013.

02/13
• A new positive waterway outside a Houston nursery was detected in February. This was the first new positive site of the 2013 survey year and the second new site in the Houston area in the past three months. A second, separate positive was also obtained in February from a site first identified positive in December 2012.

01/13
Thirty-three nurseries in eight states (CA, OR, WA, NC, ME, NY, PA. and IN) had *P. ramorum* confirmations in 2012 (up from 23 nurseries in 5 states in 2011), including 17 interstate shippers (16 in regulated states and 1 in NY) and 16 non-interstate shippers. Sixteen of the finds (48.5%) were first time detections (CA-3, OR-7, WA-2, NY-1, IN-1) and 17 (51.5%) were repeat nurseries. High-risk host plants comprised 85% of confirmations.

California had seven *P. ramorum*-positive nurseries in 2012, of which four were previously positive. Five confirmations came from production facilities, two were retail, two were in the quarantine area, and five were in the regulated area.

Oregon detected 11 positive nurseries as part of the 2012 Federal *P. ramorum* Certification Program. The pathogen was detected on plants, as well as in potting media, soil, and a cull pile. This was the first time *Gaultheria procumbens* had ever been found positive for the pathogen.

12/12

As of 12/10/12, the USDA Animal and Plant Health Inspection Service (APHIS) amended the federal order (FO) regarding advance notification for interstate shipments of *P. ramorum* high-risk host nursery stock.

11/12

To date this year, *P. ramorum* has been reported in 8 (CA, OR, WA, NC, ME, NY, PA. and IN) states and 33 nurseries, including 17 interstate shipping facilities (CA-2, OR-7, WA-7, NY-1; 10 nurseries did ship material out of state) and 16 non-interstate shipping nurseries (CA-4, OR-4, WA-3, NC-1, ME-1, NY-1, PA-1, IN-1). Forty-seven percent (15) of the finds were first time detections (CA-3, OR-7, WA-2, NY-1, IN-1) and 48 percent (16) were repeat nurseries. In total, 10 trace investigations have been implemented. Host plants from *P. ramorum*-positive nurseries were shipped to 33 states, with positive finds in 2 (ME, PA traced-back to OR) non-interstate shipping nurseries and four residential locations. Of the four (ME, OR, WA, CA) residential confirmations, two (ME, CA) were traced back to a nursery in OR and two (OR, WA) were traced back to a WA nursery.

09/12

A residential site in Placer County, California (regulated county) was found to have a *P. ramorum*-positive *Rhododendron* sp. plant on August 28th. The positive plant was traced back to a retail nursery in Auburn (Placer County), which was confirmed *P. ramorum* positive in 2006 and 2009.

To date in 2012, the US has had 32 *P. ramorum*-positive nurseries in seven states (CA-6; OR-11; WA-10; NC-1; ME-1; NY-2; PA-1) as well as 4 positive residential/ landscape detections (CA, OR, WA, ME). Positive plants included: *Rhododendron* (51%); *Camellia* (13%); *Viburnum* (11%); *Pieris* (7%); *Kalmia* (3%); *Gaultheria* (4%); *Loropetalum* (3%); *Magnolia* (3%); *Hamamelis* (2%); *Cornus* (1%); *Prunus* (1%); and *Trachelospermum* (1%). Seventeen of the positive nurseries are interstate shippers (CA-2; OR-7; WA-7; NY-1) and 15 are retail facilities (CA-4; OR-4; WA-3; NC-1; ME-1; NY-1; PA-1). Collection ponds were positive at 2 retail nurseries (WA, NY) and 3 that ship interstate (2-WA, 1-NY). Soil was positive at 1 retail nursery (CA), 2
interstate shipping nurseries (CA, OR), and 1 landscape site (WA). Ten interstate trace-forward investigations were conducted this year: three with potentially infected plants shipped to 24-30 states and seven with potentially infected plants shipped to 1 to 3 states. As a result, *P. ramorum* was detected at retail nurseries in ME and PA that were shipped from OR, and from three residential/landscape sites in OR, WA, and ME that originated in WA.

08/12

- To date this year, the Oregon Department of Agriculture (ODA) has confirmed 11 *P. ramorum*-positive nurseries in Clackamas, Curry, Lane, Lincoln, Marion, Multnomah, Polk, Tillamook, and Washington Counties. The positive plants found in the Curry County nursery (now closed for business) were infected with the EU1 lineage. No infected plants were found at the nursery during inspection last year; however, 13 infected plants were found this year. This is the first report of the EU1 lineage in Curry County. *P. ramorum* was also detected at a private residence in Lane County (Oregon) based on trace-forward information received from USDA APHIS. The pathogen was detected infecting *Gaultheria shallon* and *G. procumbens* plants that had been imported from Washington and were still in their containers.

07/12

- A fourth, genetically distinct lineage of *Phytophthora ramorum* has been discovered in the United Kingdom on Japanese larch. Based on genetic analysis, it is believed that the previously unknown European type 2 (EU2) lineage has been newly introduced into southwest Scotland and Northern Ireland. The pathway by which the new lineage arrived into the UK is unknown, and researchers are assessing the extent of its distribution. Genetic analysis of the four lineages (EU2, EU1, NA2, NA1) indicates that the pathogen emanates from some unknown center of origin.

06/12

- Four California nurseries were found *P. ramorum* positive – two within the quarantine area (both Mendocino County) and two within the regulated area (both Sacramento County). The first confirmation was a Mendocino County retail nursery that was found to have a positive *Camellia* during a general nursery inspection. The nursery was also positive in 2008, 2010, and 2011; is not under compliance; and does not ship interstate. The second confirmation was made on a positive *Camellia* during a compliance agreement inspection at a Mendocino County production nursery. The nursery has not previously been positive and does not ship interstate. Following the confirmation, the facility chose to no longer participate in the *P. ramorum* host interstate shipping program. A *Viburnum tinus* ‘Spring Bouquet’ at a Sacramento County production facility during a compliance agreement inspection. The nursery was also found positive in 2005, 2006, 2007, and 2011, and does ship interstate (to Nevada). The fourth confirmation was at a Sacramento County retail nursery during a compliance agreement inspection. Positive plants included a *Rhododendron* sp. ‘Boule de Neige’ and a *Camellia japonica* ‘Pink Parade.’ The Nursery does not ship interstate and has not previously been positive.
• The Oregon Department of Agriculture 2112 Federal Order survey of nurseries shipping interstate is about 50 percent complete. To date, 7,841 samples have been analyzed, with nine nurseries (5 grower and 4 retail) in Clackamas, Lane, Lincoln, Marion, Polk, Tillamook, and Washington Counties found positive. Four of the nurseries ship interstate and four are repeat positives. Nursery stock found infected includes *Camellia*, *Cornus*, *Hamamelis*, *Kalmia*, *Magnolia*, *Pieris*, *Rhododendron*, and *Viburnum*.

• Washington has had 10 confirmed positive nurseries to date in 2012, the most in a single year since 2006. Counties with detections include King, Pierce, Thurston, Lewis, Clark, Clallam, and Skagit. Eight of the nurseries are repeat positives and six are certified interstate host shippers, three of which have shipped host and associated host plant material in the past six months. Positive plants have included *Rhododendron*, *Viburnum*, *Camellia*, *Magnolia*, two *Pieris*, and one *Gaultheria*.

• As of June 8, 2012, the Republic of Korea’s Animal, Plant, and Fisheries Quarantine and Inspection Agency, Ministry for Food, Agriculture, Forestry, and Fisheries added six countries (Croatia, Czech Republic, Greece, Finland, Lithuania, and Serbia) to their “Phytosanitary measures to prevent the introduction of Sudden Oak Death Disease.” These countries now must abide by the Republic of Korea’s rule applying to any propagated host or associated host material such as nursery stock (including root stock), cuttings, and scions (except seeds and fruits) and wood (including logs) with bark. All shipments will be required to have phytosanitary certificates accompany *P. ramorum* host and associated host importation, with an additional declaration that, "The shipment was inspected and found free of *Phytophthora ramorum*.”

• The Oregon Department of Agriculture 2012 Federal Order survey has identified six *P. ramorum*-positive nurseries so far this year in Lincoln, Marion, Washington, Tillamook, Polk, and Lane Counties. Three of the positive nurseries are wholesalers and three are retailers. Two of the six ship nursery stock out of state and four are repeat positives.

• Of the $15.5 million allocated to California in 2012 via the 2008 Farm Bill - Section 10201, $978,745 has been awarded for *P. ramorum* projects related to safeguarding nursery production and enhancing mitigation capabilities.

05/12

• Three Washington nurseries were confirmed positive for *P. ramorum* in May during interstate shipper annual compliance inspections. One was a wholesale producer with an attached retail yard in King County; the second was a Clallam County retail nursery with a separate production site; and the third confirmation was from a mail-order retail nursery in Lewis County which had a positive potentially actionable suspect sample in 2010 and tested negative in 2011.

• In Washington, holding pond water was found positive at two wholesale landscape nurseries – one in Clark County and the other in Thurston County. Both ponds have been positive in past years; clean-up has been difficult. Neither site uses the ponds for irrigation. Positive rhododendrons were also found in a commercial landscape in Pierce County. These plants were traced
forward from the P. ramorum-positive wholesale landscape nursery in Thurston County (found positive 3/30/12).

- On May 3, 2012, a 5-gallon Loropetalum chinense ‘Rubrum’ was confirmed P. ramorum positive at a retail nursery in Sacramento County as a result of a follow-up inspection for a 2011 confirmation. The nursery is not under compliance and does not ship interstate.

- USDA APHIS issued a Federal Order on April 18, 2012, placing restrictions on the importation of P. ramorum host plants for planting into the U.S. The new order requires specific countries to have in place an annual pest exclusion program that incorporates monitoring, sampling, testing, and a validation process to verify the absence of P. ramorum in places of production.

- California’s first P. ramorum-positive nursery for 2012 was identified on April 13th. The Orange County production nursery was found to have infected Loropetalum chinense, Rhododendron, and star jasmine (Trachelospermum jasminoides) during a compliance agreement inspection. The nursery ships interstate and had not been previously positive for the pathogen.

04/12

- On April 27, 2012, a San Joaquin County production nursery was found to have 5-gallon P. ramorum-positive Camellia sasanqua ‘Cleopatra,’ Camellia japonica ‘Mathotiana Supreme,’ and Camellia japonica ‘Bella Rose’ during a compliance agreement inspection. The nursery was previously positive in 2011 and has not made any interstate shipments since.

- Phytophthora ramorum was recovered from three native California plant species: Cornus nuttallii (western dogwood), Trillium ovatum (western wake robin), and Garrya elliptica (wavyleaf silk tassel). Koch’s postulates still need to be performed to demonstrate that P. ramorum is causing disease in these three plant species, but the recoveries in 2011 are the first findings of the pathogen in members of the Trillium and Garrya genera. Several ornamental species of Cornus (C. kousa and the hybrid C. kousa x C. capitata) are already on the list of associated P. ramorum hosts, but the recovery of the pathogen from C. nuttallii marks the first instance of recovery from a North American dogwood species.

03/12

- Effective March 1, 2012, the USDA Animal and Plant Health Inspection Service will add eight plants to the list of P. ramorum associated hosts: Ilex cornuta (Buford holly, Chinese holly, horned holly); Illicium parviflorum (yellow anise); Larix kaempferi (Japanese larch); Magnolia denudate (lily tree); Mahonia nervosa (creeping Oregon grape); Molinandendron sinaloense; Trachelospermum jasminoides (star jasmine, Confederate jasmine); and Veronica spicata Syn. Pseudolysimachion spicatum (spiked speedwell). In addition, APHIS is moving Cinnamomum camphora from the associated host list to the proven and restricted host list. These changes bring the official U.S. P. ramorum host list to 137 plants. As of March 1, 2012 any nurseries within the regulated and quarantined areas containing these newly listed
plants must be properly inspected, sampled, and tested in order to be able to move any plants interstate.

01/12

- In 2011, the California Department of Food and Agriculture detected *P. ramorum* in 12 nurseries as a result of compliance, trace-back, and nursery stock cleanliness inspections.

- The Oregon Department of Agriculture detected *P. ramorum* in six nurseries in 2011, infecting *Rhododendron, Viburnum, Camellia, and Pieris* plants. The pathogen was also detected in the soil substrate at one nursery, the soil substrate and potting media associated with an infected plant at another nursery, and in potting media associated with infected plants at two other nurseries. Four of these six nurseries were positive for *P. ramorum* in previous years.

- *Molinadendron sinaloense* was found to have *P. ramorum* symptoms in August by a county inspector. It was confirmed to be *P. ramorum* positive by USDA and classified as an associated host on January 25, 2012.

09/11

- The USDA APHIS *P. ramorum* Program 2011, 3rd Quarter Summary reported 25 nursery-related *P. ramorum* confirmations from January to September 30, 2011 in the following states: CA (12), OR (6), WA (5); SC (1); and CT (1 residential). Fourteen of the nurseries were interstate shippers and nine were retail. Positive plant detections were from the following plant species: *Camellia* (31%); *Rhododendron* (34%); *Pieris* (5%); *Viburnum* (5%); *Magnolia* (5%); *Osmanthus* (3%); *Gaultheria* (3%); *Cinnamonum* (3%); and 7 other species (11%).

08/11

- *Molinadendron sinaloense* was found *P. ramorum* positive for the first time on 6/30/11 during a routine light brown apple moth (LBAM) inspection at a research garden in Alameda County, CA. The sample was confirmed positive by the USDA Animal and Plant Health Inspection Service (APHIS) on 8/1/11.

07/11

- A Sacramento County, CA production nursery was found positive for *P. ramorum*. To date in 2011, *P. ramorum* has been confirmed in 21 US nursery locations: CA (11), OR (6), WA (3), and SC (1) ans well as one residential location in CT.

06/11

- California had two *P. ramorum*-positive in production nurseries, one in Mendocino County and another in San Joaquin County.
• The USDA Animal and Plant Health Inspection Service (APHIS) updated regulations governing international trade in plants used in gardening and landscape design (effective June 27, 2011). The rule change creates a new category, “Not Authorized for Importation Pending Pest Risk Assessment (NAPPRA),” which allows APHIS to quickly restrict the importation of plants suspected of being invasive or carrying pests until possible risks are understood and protective measures are put in place.

05/11

• California had four P. ramorum-positive nurseries confirmed, in San Joaquin (1 production nursery), Santa Cruz (1 production nursery), and Sacramento (1 retail and 1 production nursery).

• A wholesale/production nursery in Snohomish County, Washington was confirmed P. ramorum positive on May 27th during an Annual Compliance Inspection.

• The Oregon Department of Agriculture completed testing for the 2011 P. ramorum Federal Order Survey on 7,574 samples collected from 182 nursery grower locations. Four Oregon nurseries were found positive for the pathogen in May (2 wholesale nurseries in Clackamas County, a retail nursery in Lincoln County, and a wholesale nursery in Lane County).

• The Washington P. ramorum-positive soil confirmation in a Gig Harbor, Pierce County landscape (confirmed December 2010) has been identified as the NA2 lineage. This is the first time this strain has been found outside of a nursery in soil.

04/11

• A South Carolina retail nursery was found to have P. ramorum-positive soil on April 6th. Clemson University and the nursery owner are working to clean up the site and will soon be installing a sand filtration system in an effort to keep pathogen spores from entering the environment.

• California had four confirmed nurseries, three at production facilities and one at a retail nursery. Oregon retail nurseries in Washington County and Polk County were also found positive.

3/11

• The NA2 P. ramorum genotype has been detected in retail nurseries in five California counties. Originally only confirmed in Sacramento County in 2005, it has since been found there in 2008 and 2009. It has also been found in San Mateo (2008), Contra Costa (2009), Placer (2010), and Sonoma (2010) Counties.

• The USDA Animal and Plant Health Inspection Service (APHIS) will implement a Federal Order on 3/1/11 requiring interstate shipping nurseries in P. ramorum quarantine areas or in regulated counties that have previously tested positive for the pathogen to provide advance notification to destination
states in non-regulated areas for certain high-risk plant species. Advanced notification is intended to enhance the traceability of potentially infected nursery stock. Under the new requirements, all nurseries located in a quarantine area that ship any species of *Camellia*, *Kalmia*, *Pieris*, *Rhododendron* (including Azalea), and *Viburnum* interstate to non-regulated areas must provide advance notification. In addition, nurseries shipping any of these species interstate to non-regulated areas must provide advance notification if they are located in regulated counties with one or more interstate shippers that have tested positive for *P. ramorum* since 2003.

An amendment has been made to the January 28, 2011 Federal Order (DA-2011-04) requiring advance notification for certain shipments of *P. ramorum*-host nursery stock. The counties of Santa Barbara (CA), Ventura (CA), Lincoln (OR), and Kitsap (WA) have been removed from the list of affected counties. This action was taken because Santa Barbara and Ventura Counties only detected *P. ramorum* on trace-forward plants and not on host plants grown within the interstate shipping nursery premises; Lincoln County has no *P. ramorum*-positive interstate shippers; and Kitsap County does not have an interstate shipping nursery that has previously tested positive for the pathogen. The amended Federal Order is immediately effective and supersedes the Federal Order dated January 28, 2011 (DA-2011-04). All other counties listed in the January 28 Federal Order (DA-2011-04) as an affected quarantined and regulated county in California, Oregon, and Washington remain the same.

1/11

- Fifteen *P. ramorum*-positive water samples were confirmed in Washington state in January 2011. A nursery in Cowlitz County, Washington that has had *P. ramorum*-positive water onsite since 2008 has been found to have a new positive water location on the southeast corner of the nursery along a county road right of way. The new location drains into two separate small streams.

12/10

- A Gig Harbor, Pierce County, WA landscape site adjacent to a previously positive repeat nursery has been found to have *P. ramorum*-positive soil. The confirmed site is along a drainage that had been found positive with infected salal plants in the summer of 2009.

- California had 874 establishments under compliance for *P. ramorum* in 2010, including 634 host nurseries. A total of 18,418 samples were taken in California nurseries, with 2,090 nursery sites found to be negative for the pathogen and eight sites found positive. Five of the confirmed locations were production facilities, two were retail sites (both in quarantined counties), and one was a residential location (regulated county).

- Nurseries identified as *P. ramorum* positive throughout the US in 2010 included: CA (7); OR (9); WA (6); IA (1-Trace Forward); IL (1-Trace Forward); AL (1); NC (1); SC (1); VA (1-hoop house leaf debris); NY (1-Collection Pond); MS (3); GA (1-irrigation pond); PA (1-greenhouse seeding flats). Confirmations by plant genera included: *Rhododendron/Azalea* (41); *Camellia* (18); *Viburnum* (7); *Pieris* (6); *Kalmia* (2); *Laurus nobilis* (3);
Loropetalum chinensis (1); Magnolia (2); Tracheolospermum jasminoides (2); Osmanthus fragrans (1); Mahonia nervosa (1); Sequoia sempervirens (1); and Veronica spicata (1). There were two positive residential landscape detections and one water-pond positive. Eighteen of the infested nurseries were interstate shippers and 13 were retail facilities. Subsequent plant and soil samples taken in each of the nurseries were all negative for P. ramorum.

9/10

- Washington has identified a Kitsap Peninsula creek P. ramorum water positive further downstream than previous detections. This creek is associated with a Peninsula nursery that has been free from the pathogen for several years following implementation of the Confirmed Nursery Protocol; however, the brackish creek water continues to be P. ramorum positive.

- Nurseries in California (Stanislaus County) and Washington (Pierce County) were found positive for P. ramorum.

8/10

- Retail nurseries in California (Mendocino County and Humboldt County), Washington (King County), and Oregon (Washington County) were confirmed positive for P. ramorum.

- The implementation of the Federal Order requiring pre-notification for shipping P. ramorum host nursery stock from regulated and quarantine areas has been delayed until further notice.

7/10

- Water draining an infested nursery in Mecklenburg County (Charlotte), NC has been found to have Phytophthora ramorum as a result of the 2010 National P. ramorum Early Detection Survey of Forests. This brings the total number of positive waterways to 10 in six states outside areas where P. ramorum is found in California and Oregon forest areas (WA [2], AL [4], MS [1], GA [1], FL [1], and NC [1]).

- USDA APHIS has delayed the effective date for implementation of the Federal Order requiring pre-notification for shipping P. ramorum host nursery stock from regulated and quarantine areas from June 21, 2010 to July 19, 2010.

6/10

- As of June 21, 2010, USDA APHIS will require written pre-notification to destination states of all interstate shipments that include Phytophthora ramorum host plants from quarantine or regulated areas. The new rule, under Phytophthora ramorum 7 CFR 301.92, is intended to allow 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.

- The Oregon Department of Agriculture has completed testing for the 2010 P. ramorum Federal Order Survey on 12,101 samples collected from 299
nursery grower locations, and has detected six positive nurseries. During delimitation surveys at one of the Washington County nurseries, foliar samples were collected from a *Trachelospermum jasminoides* (star jasmine) plant exhibiting suspicious symptoms. The foliage was officially confirmed *P. ramorum* positive on 6/10/2010. Star jasmine was also found positive in June 2010 at a Sacramento County, CA production nursery. As there have been two independent confirmations of infected star jasmine, it is anticipated that APHIS will be adding this newly identified host to the *P. ramorum* list of regulated species.

- A Johnson County, Iowa retail nursery was confirmed *P. ramorum* positive on 6/22/10 as a result of a trace-forward inspection of plants shipped from a positive production nursery in Washington County, Oregon.

5/10

- Australia has adopted emergency measures prohibiting the importation of *P. ramorum* host species (other than tissue cultures) from Canada in an effort to minimize the risk of pathogen introduction into the country.

- California has had five *P. ramorum*-positive nurseries identified since April 30, 2010, and found *Trachelospermum jasminoides* (star jasmine) as *P. ramorum* positive for the first time.

- Two nurseries in Oregon (Marion County and Washington County) and two in Washington (Thurston County and Snohomish County) were found *P. ramorum* positive in May 2010.

4/10

- *P. ramorum* positives were found in a variety of nurseries, from Lancaster County, Pennsylvania (production); Mecklenburg County, North Carolina (retail); Greenville County, South Carolina (retail); Clackamas County, Oregon (wholesale); and Clark County, Washington (production).

- South Carolina rescinded its *P. ramorum* rule that required California and Oregon growers importing plants to the state to comply with additional guidelines which were more restrictive than the federal regulations. The repeal effectively ends the lawsuit filed on 3/8/10 by the California Association of Nurseries and Garden Centers (CANGC) and the Oregon Association of Nurseries (OAN) and restores the right of all nurseries in California, Oregon, and Washington to ship *P. ramorum* host and associated host plants to SC, provided they follow the federal rule.

- Korea updated its list of *P. ramorum*-regulated hosts to include: *Choisya ternate*, *Cornus kousa*, *Daphniphyllum glaucescens*, *Lithocarpus glaber*, *Magnolia cavaliere*, *Magnolia foveolata*, *Ribes laurifolium*, *Vaccinium myrtillus*, and *Vaccinium vitis-idaea*.

03/10

- The EU1 strain is now the most common *P. ramorum* lineage detected in WA state nurseries and non-nursery sites, with a concurrent rise in NA2 and
decrease in NA1. Evaluation of genotypes over the past 5 years by Washington State University shows the reversal in genotype frequency occurred in 2008 and persisted into 2009. They detected EU1 in 99 positive samples at seven locations, NA1 in 17 samples at four sites, and NA2 in 48 samples at three sites in 2009. In contrast, the first year of the study (2005) identified four EU1 samples at one site, 103 NA1 samples at 14 sites, and 12 NA2 samples at five sites.

- A lawsuit was filed on 3/8/10 in Columbia, South Carolina by the California Association of Nurseries and Garden Centers (CANGC) and the Oregon Association of Nurseries (OAN), seeking to overturn a new South Carolina regulation that requires California and Oregon growers shipping plants to SC to comply with additional inspection, documentation and advance notice requirements which are more restrictive than the federal *P. ramorum* rules. The suit, which names the State of South Carolina and the South Carolina Department of Agriculture, challenges the new regulation as both unconstitutional and prohibited by the Plant Protection Act.

2/10

- As part of the perimeter survey conducted at a *P. ramorum*-positive retail nursery in Pierce County, Washington last summer, the Washington State Department of Agriculture identified infested salal (*Gaultheria shallon*) plants in the natural landscape. Follow-up analysis has resulted in the isolation of the NA2 lineage from the salal. This is the first detection of the NA2 lineage on native forest vegetation.

- Ten species have been added to the list of federally regulated *P. ramorum* associated host plants. The USDA Animal and Plant Health Inspection Service (APHIS) ADDED: Mexican-orange (*Choisya ternate*), kousa dogwood (*Cornus kousa*), *Daphniphyllum glaucescens*, European holly (*Ilex aquifolium*), Japanese-oak (*Lithocarpus glaber*), *Magnolia cavalieri*, *Magnolia foveolata*, bayleaf currant (*Ribes laurifolium*), bilberry (*Vaccinium myrtillus*), and lingonberry (*Vaccinium vitis-idaea*) to the list. Symptoms for each of the new hosts other than bilberry were leaf necrosis. Tip dieback occurs in infected bilberry as well as *Daphniphyllum glaucescens* These species were identified as susceptible by the Canadian Food Inspection Agency (CFIA) and the United Kingdom’s Food and Environment Research Agency (FERA). Nurseries currently operating under an APHIS *P. ramorum* compliance agreement are able to continue shipping hosts and associated plants, including the newly listed plants; however, any nurseries not currently under a compliance agreement that contain these new species must be properly inspected, sampled, tested, and placed under a Compliance Agreement in order to be able to move any plants interstate.

01/10

- Washington had two *P. ramorum*-positive locations identified in January. Both sites have previously been found positive for the pathogen. One positive find was in retention pond water at a Pierce County retail nursery.

12/09
Findings from the 2009 National *P. ramorum* Early Detection Survey of Forests have resulted in more stream detections outside of nurseries and to the east of the regulated states than in any other year. To date for the 2009 season, five new streams have been found positive – three in AL, one in OR, and one in GA. Since the inception of the survey in 2006, 15 positive streams have been identified, nine of which have been outside of the regulated areas in CA and OR. While the pathogen has been detected in streamside plants in MS, no established infections have been found.

A Placer County, California retail nursery was confirmed positive for *P. ramorum* on 12/23/09. The positive sample was collected by the County during a compliance agreement renewal inspection; however, due to the find, the compliance agreement has been suspended. The positive sample was found on a 1-gallon coast redwood. The nursery does not ship host material interstate. The site was previously found positive in 2005 as a result of a positive trace-forward plant.

**11/09**

- In U.S. nurseries, *P. ramorum* is detected in 9 states at 26 sites. Positive nursery detections by state include: CA(4), OR(6), WA(6), AL(3), GA(2), MS(1), NJ(1), NC(2), and SC(1).

**6/09**

- Six streams outside of nurseries are found *Phytophthora ramorum* positive in five states: WA(1), MS(1), AL(2), GA(1), and FL(1). All confirmed locations have had more than one positive detection in 2009.

- *P. ramorum* is detected in 6 landscapes and 1 nursery perimeter. Washington has 3 trace-forward landscape detections and 1 nursery perimeter detection. The perimeter detection is the first documented case of the pathogen escaping a nursery and moving into a local environment. Maryland, Pennsylvania, and South Carolina each have 1 trace-forward landscape detection.

**4/09**

- Camfor tree (*Cinnamomum camphora*) is found *P. ramorum*-positive for the first time in the US at a Sacramento County, CA nursery.

**3/09**

- Ten new hosts are added to the federal list of regulated hosts: *Cornus kousa*, *Choisyia ternate*, *Daphniphyllum glaucescens*, *Ilex aquifolium*, *Lithocarpus glaber*, *Magnolia cavalieri*, *Magnolia foveolata*, *Ribes laurifolium*, *Vaccinium myrtillus*, and *Vaccinium vitis-idaea*.

**9/08**
• A British Columbia (BC) production nursery was found to have *P. ramorum* -positive plants, including *Viburnum bodnantense*, *V. burkwoodii*, *V. carlesii*, and *Cornus kousa*. This nursery is undergoing eradication per the CFIA nursery eradication protocol. Seven nurseries in the state of Washington received shipments from this nursery. Four of the seven sites have been inspected to date. At those four sites, no symptoms were observed. Kousa dogwood (*Cornus kousa*) was also found *P. ramorum* positive at the BC nursery, approximately 50 – 100 meters from the *Viburnum* plants.

• *P. ramorum* has been detected at five Oregon nurseries and one landscape site in 2008. The most recent detection was made in early August at a retail nursery in Marion County, where the pathogen was detected by PCR infecting a *Rhododendron* and a *Corylopsis spicata*.

6/08

• As of 6/27/08, ODA has inspected and processed 13,797 samples from 336 grower sites. *Phytophthora* continues to be detected at high levels within the industry this year, having been detected at 57.1% of sites surveyed and in 8.4% of samples tested. At this same point during the 2007 survey, *Phytophthora* had been detected at 42.1% of the grower sites surveyed and in 4.5% of the samples tested.

• In mid-June 2008, a retail nursery in the greater-Charlotte area of North Carolina was found to have *P. ramorum* on two species of container-grown plants. Subsequently, a small retail nursery in the Greenville area of South Carolina was identified as a recipient of potentially infected plants as part of the trace-forward effort to locate plants that left the NC nursery.

5/08

• Multiple *P. ramorum*-positive plant samples have been confirmed outside of a Jackson, MS nursery. The samples were taken on two different dates, from three different host genera. An Emergency Action Notification has been issued; however, due to possible surface contamination of the samples by silt from flooding prior to collection, further regulatory action has not yet been taken. Follow-up sampling is being conducted to determine the presence or absence of the pathogen in other vegetation near the original positive plants.

• *Cercis chinensis* (Chinese redbud) and *Magnolia (Michelia) figo* (banana shrub) have both been reported positive for *P. ramorum*. USDA APHIS is reviewing the findings, and plans to add each species to the list of hosts regulated for *P. ramorum* in early May. *Cercis chinensis* was found positive at a previously positive British Columbia nursery on November 16, 2007. Other genera found positive at the facility included *Magnolia*, *Salix*, *Rhododendron*, and *Vaccinium*.

• CA has had eleven positive nurseries (four producers, two wholesalers/producers, one production/retail, and four retailers) confirmed *P. ramorum*-positive in 2008. Four of the positive nurseries were located in Los Angeles (2), San Diego, and Santa Barbara Counties and five were located in the quarantined counties of Contra Costa (2), San Mateo, Alameda, and Humboldt.
• WSDA has completed sampling at 40% of Washington’s 2008 USDA annual certification survey sites. *P. ramorum* has been found infecting *Viburnum tinus* plants at three nurseries, one in Snohomish County and two in Clark County. All three nurseries tested negative in previous years.

3/08

• ODA began inspections and testing for the 2008 USDA APHIS Annual Certification Survey in March. As of April 29th, testing has been completed on 6,279 samples collected from 153 nursery growing areas. *Phytophthora* species have been detected at 60 percent of the sites surveyed, a 12 percent increase over last year. The number of *Phytophthora*-infected samples has also increased from 6 percent in 2007 to 9 percent in 2008.

2/08

• California has three *P. ramorum*-positive nursery confirmations. A Los Angeles County production nursery is found to have one *P. ramorum*-positive *Camellia sinensis* and a production/retail nursery in the county has one positive *Camellia japonica* 'Kramer's Supreme' confirmed. Both nurseries’ compliance agreements have been suspended. CNP is underway at both facilities. The third confirmation is at a retail nursery in Humboldt County. Positive soil samples are found as a result of a soil delimitation sampling following a 2007 positive.

1/08

• Oregon’s Curry County quarantine area is officially expanded to 162 square miles, following the State’s amendment to their *P. ramorum* quarantine. For the first time, nurseries and a lumber mill are located within the quarantine area. ODA is working with affected businesses to set up the compliance agreements and inspection schedules necessary to meet federal interstate shipping requirements.

• A Florida nursery is found to have *P. ramorum*-positive *Camellia sasanqua* at two of its facilities. Both sites were found positive for the pathogen in 2007. The USDA CNP is under way at both locations.

12/07

• A total of 21 positive nursery finds are made in 2007. The states with positive detections are CA(7), OR(2), WA(7), FL(1), GA(3), and MS(1).

• *Corylopsis spicata* (spike witch hazel - Hamamelidaceae) and *Physocarpus opulifolius* (ninebark - Rosaceae) are added to the list of federally regulated associated host plants. The CFIA found both plants naturally infected in a BC, Canada nursery. Spike witch hazel symptoms were identified as leaf necrosis and ninebark symptoms included leaf necrosis and dieback.
• USDA APHIS issues a new protocol for retail nurseries found infested with *P. ramorum*, “Official Regulatory Protocol for Retail Nurseries Containing Plants Infected with *Phytophthora ramorum*.”

**10/07**

• *P. ramorum* inoculum was baited from Norton Creek (a small coastal stream in northern Humboldt County in the town of McKinleyville) early in the summer of 2006, with a repeat detection in the spring of 2007. The recovered isolates have been genotyped, revealing that two lineages are present: the Northern American (NA1) and European (EU1). This is the first find in North America of the EU1 lineage in a wildland environment. Efforts are being made to determine the spore source location, including exhaustive streamside surveys. A small retail nursery in downtown McKinleyville has been found to have *P. ramorum*-positive plants, including three plants confirmed with the EU1 strain, but the nursery is located in a different watershed than the infested stream. No definitive linkages between the nursery and stream have been established.

**9/07**

• *Garrya elliptica* and *Mahonia aquifolium* are now regulated by the USDA APHIS for *P. ramorum*. Nurseries operating under a compliance agreement may continue to ship hosts and associated plants, including the newly listed plants. However, all other nurseries containing these newly listed plants must be properly inspected, sampled, tested, and placed under a Compliance Agreement by September 7, 2007 in order to be able to move regulated plants interstate.

**8/07**

• The EU implements changes to their *P. ramorum* regulations. The decision amends the list of plants, wood, and bark susceptible to *P. ramorum*; increases from one to two the number of official inspections of specific species of susceptible plants in places of production and extends eradication measures to cover growing media and plant debris as well as sanitizing the surface upon which infected plants have been standing.

• CDFA nursery inspectors are now conducting two inspections per year on “medium-risk” plants (*Viburnum, Pieris*, and *Kalmia*) and three inspections per year on “high-risk” plants (*Camellia* and *Rhododendron*).

**7/07**

• Rhododendrons planted along a residential roadway are found *P. ramorum* positive in Thurston County, WA. WSDA has implemented the landscape protocol; all rhododendrons along the roadway have been destroyed. The positive plants were provided to the landscaper from an out of state West Coast nursery.
• Canada sets aside more than $24 million in *P. ramorum* compensation funds for wholesale and retail nurseries as well as individuals impacted by pathogen eradication efforts. Compensation ranges from $4 for young plants to $300 for the largest trees. Affected parties can also claim costs incurred in the disposal and treatment of plants and related materials, either via incineration or deep burial.

6/07

• Following the April *P. ramorum*-positive stream baiting sample taken from the Sammamish River in King County, WA, WSU and WSDA collaborated with USDA ARS to genotype 40 isolates sampled from 12 nurseries both within and outside the Sammamish watershed in an attempt to trace the origin of the river isolate. Upon analysis, the Sammamish River isolate has a unique fingerprint that matches an isolate from a landscape supplier located outside of the watershed. While not a conclusive study, the finding does suggest the Sammamish River isolate may have been introduced from nursery stock originating from this wholesaler.

• Two California nurseries are identified as *P. ramorum*-positive. A San Diego County production nursery is found PCR-positive for *Pieris japonica* 'Amamiana'. This facility is under compliance for *P. ramorum* and does ship interstate. Trace-forward investigations include nurseries in seven western states and 10 CA counties. An Alameda County production nursery is also found infested with *Magnolia grandiflora*. The nursery is under compliance for *P. ramorum* and does not ship interstate.

• Oregon Grape (*Mahonia aquifolium* [Pursh] Nutt. - Berberidaceae Family) is found *P. ramorum*-positive for the first time at a Canadian nursery. Symptoms are primarily foliar, and include leaf spots and discoloration. This host species is native to the West Coast of the US. APHIS is reviewing the findings and anticipates adding Oregon Grape to the list of *P. ramorum*-regulated hosts soon.

5/07

• APHIS has updated the "Official Regulatory Protocol for Wholesale and Production Nurseries Containing Plants Infected with *Phytophthora ramorum*." The revised CNP is to be used by any nursery found *P. ramorum*-positive.

• The first US findings of *P. ramorum*-positive *Loropetalum* are found at a Sacramento County, CA nursery that has previously been identified with the pathogen. Symptoms, unlike other foliar hosts, can include large and small pin-prick size lesions on the underside of leaves, surrounded by red rings.

4/07

• Four *P. ramorum*-positive nurseries are identified in CA. Three of the nurseries are retail facilities in quarantined counties. None of the three retailers are under compliance or ship out of the quarantined area. Two of the three sites have been *P. ramorum*-positive before. The fourth *P. ramorum* confirmation was made on *Loropetalum chinense* at a production nursery.
during an annual compliance agreement inspection. The nursery is under compliance and ships out of state (to NV only). This nursery was also found *P. ramorum*-positive in 2006 during a compliance agreement inspection.

- *P. ramorum* is found at two Oregon production nurseries. One nursery in Washington County was confirmed to have an infested block of *Camellia* and an infested block of *Rhododendron*. The second nursery, located in Clackamas County, had a *P. ramorum*-positive *C. sasanqua* 'Yuletide' plant.

- Twelve *P. ramorum*-positive nursery sites in five states have been identified to date in 2007 through federal or state inspections, nursery surveys, and/or other detections. Positive finds by state include: CA(5), FL(1), MS(1), OR(2), and WA(3).

3/07

- The European *P. ramorum* lineage has been reported for the first time in CA. It was recovered from three Humboldt County nursery isolates taken in spring of 2006 and analyzed as part of a genetic study of *P. ramorum* isolates from CDFA. Current samples have been taken at the nursery; results are pending. Trace-back investigations are underway for the 2006 confirmations.

- To date in 2007, WA has had three *P. ramorum*-positive nursery confirmations. The first two positive nurseries were found in King and Snohomish counties, and were discovered as a result of the new trace-back protocol, which requires trace-back nurseries to supply trace-forward information for a period of 30 days prior and 30 days after the shipments were sent to the positive nursery. The third *P. ramorum*-positive nursery was in Cowlitz County and was discovered as the result of a Compliance Certification Inspection.

- A Hinds County, MS nursery is found to have a *P. ramorum*-positive *Camellia* sp. The inspection was a follow-up inspection to eradication efforts performed last year.

2/07

- Sixteen silk tassel bush (*Garrya elliptica*) plants are found *P. ramorum*-positive for the first time in the UK. This host species is a West Coast US native. APHIS is reviewing the findings and anticipates adding silk tassel bush to the *P. ramorum*-regulated host list soon.

- The new USDA APHIS *P. ramorum* regulation “*Phytophthora ramorum*; Quarantine and Regulations” is published February 27, 2007 in the Federal Register. This rule primarily codifies the Federal Order issued in December 2004 that established restrictions on the interstate movement of nursery stock from nurseries in nonquarantined areas in CA, OR, and WA. The rule also incorporates all updates (SPROs) issued since the original APHIS regulation was published in 2002, most of which are updates to the host list.

1/07
• A retail nursery in Tallahassee, FL is found *P. ramorum*-positive. The nursery was also found positive in 2006. The confirmations were made on three cultivars of Camellia japonica. Trace-back surveys failed to identify a source for the infestation.

• The UK finds *Schima wallichii* (Chinese guger tree) to be a new *P. ramorum* host. The symptomatic foliar samples were taken outdoors from a historic garden near Cornwall in 2006. USDA APHIS is reviewing the findings and anticipates adding Chinese guger tree to either the host or associated host list soon.

• *Arctostaphylos uva-ursi* (Kinnikinnik), *Prunus laurocerasus* 'Nana' (Dwarf English Laurel), and *Osmanthus delavayi* (Delavay Osmanthus) nursery stock are found *P. ramorum*-positive in King County, WA. As Koch’s postulates have not been completed, all three species will be added to the “APHIS List of Regulated Hosts and Plants Associated with *Phytophthora ramorum*” as associated plants, and regulated only as nursery stock.

• Two new *P. ramorum* A2 isolates from the EU lineage are identified in Belgium. The finding was made as a result of a Belgian research project that began in 2006 and screened all stored Belgian isolates of *P. ramorum* for their mating types. Both new isolates originated from nurseries in northern Belgium from two separate sites and from different hosts (*Rhododendron* and *Viburnum*).

**12/06**

• In 2006, USDA APHIS reported 62 sites in 11 states as having had nursery-related *P. ramorum* detections. Positive findings by state are: AL(1), CA(28), CT(1), FL(2), GA(1), IN(1), ME(1), MS(1), OR(13), PA(1), and WA(12).

**11/06**

• A CA production nursery in Santa Clara County is confirmed *P. ramorum*-positive. The positive *Vancouveria planipetala* (redwood ivy) was collected during an initial compliance agreement inspection. The nursery is not currently under compliance and does not ship or intend to ship out of the quarantined counties.

**10/06**

• The CFIA detects *P. ramorum* at four retail garden centers (two sites have the same owner) in early September and October. *P. ramorum* was found at the sites in 2004; all four sites were found free of the pathogen in 2005. All four centers source plants both locally and from the US and were sampled as post eradication sites due to the previous detections. The plants found infected were *Rhododendron* and *Viburnum*.

• Eradication efforts continue at a wholesale nursery in British Columbia, where *P. ramorum* was detected in late 2005. As a repeat site, stringent controls have been implemented. Trace-forwards from this nursery site this year have
detected two residential/commercial landscape sites with 11 positive *Gaultheria shallon* plants.

9/06

- A Santa Cruz County production nursery is identified as *P. ramorum*-positive as a result of a positive growing media sample collected from a camellia pot during CNP activities. The pot was located directly under a California bay laurel tree which is rooted in a stream known to be positive for *P. ramorum*. The samples submitted from the bay tree are pending. This nursery also tested *P. ramorum*-positive in 2003, 2004, and 2005.

- Koch’s postulates are completed for: *Acer pseudoplatanus, Aesculus hippocastanum, Laurus nobilis,* and *Michelia doltsopa*. Consequently, these hosts will be reclassified from the APHIS “Plants Associated with *P. ramorum*” list to the list of “Proven Hosts Regulated for *P. ramorum*.”

- To date, 56 nurseries have been positive for *P. ramorum* in 2006. The breakdown by state is: CA (26), OR (13), WA (8), AL (1), CT (1), FL (2), GA (1), IN (1), ME (1), MS (1), and PA (1).

- Forty-six participating states have reported *P. ramorum* National Nursery Survey results. To date, 3,513 nurseries have been visited and 95,295 samples collected. Out of the samples collected, 352 have been confirmed *P. ramorum*-positive.

8/06

- *Ceanothus thyrsiflorus, Cinnamomum camphora, Kalmia angustifolia, Nerium oleander, Osmanthus fragrans, Osmanthus heterophyllus,* and *Quercus acuta* are officially added to the APHIS list of regulated “Plants Associated with *P. ramorum*.”

- *Fagus sylvatica, Kalmia latifolia, Quercus cerris, Salix caprea,* and *Viburnum* spp. are transferred from the APHIS “Plants Associated with *P. ramorum*” list to the “Proven Hosts Regulated for *P. ramorum*” list, based on the completion of Koch’s postulates.

- *Eucalyptus haemastoma* Sm. (Myrtle family), *Cornus kousa x Cornus capitata* (Dogwood family), and *Castanopsis orthacantha* Franchet (Beech family) are added to the UK DEFRA list of Plants Reported as Natural Hosts of *P. ramorum*. All three hosts were found *P. ramorum*-positive in the UK. APHIS is researching the findings and anticipates adding these plants to APHIS “Plants Associated with *P. ramorum*” list soon.

- Canada adds five new genera to the CFIA *P. ramorum* host list: *Loropetalum, Distylium, Manglietia, Parakmeria,* and *Ilex*. These additions are the result of positive confirmations from the species: *Loropetalum chinese, Distylium myricoides, Manglietia insignis, Parakmeria lotungensis,* and *Ilex purpurea*. APHIS is reviewing the findings and anticipates adding the new hosts to the APHIS “Plants Associated with *P. ramorum*” list in the near future.
Researchers report findings of *P. ramorum* infecting Camellia flower buds. This is the first report of camellia flower bud infection in the field with the North American genotype of *P. ramorum*.

A San Joaquin County, CA production nursery is found to have five *P. ramorum*-positive Camellia varieties ('Jean May,' 'Bonanza,' 'Showa-nosakae,' 'Chansonette' and 'Nuccio's Pearl') during a compliance agreement inspection. The facility was also found to be *P. ramorum* positive in 2004. CNP is under way.

7/06

An Alabama retail nursery is confirmed positive for *P. ramorum*. The infected Camellia sp. is found on the nursery cull pile during a *P. ramorum* National Nursery Survey inspection.

A *P. ramorum*-positive *Viburnum mariesii* is found at a small Indiana retail outlet as the result of a trace-forward investigation from a production nursery in Clackamas County, OR.

*P. ramorum*-positive *Pieris* sp. 'Mountain Fire' is found at a Georgia retail nursery during a trace-forward investigation from a production nursery in Clackamas County, OR. CNP is underway.

*P. ramorum*-positive *Syringa vulgaris* 'Ludwig Spaeth' is identified at a small Maine retail nursery as a result of a trace-forward investigation from a production nursery in Clackamas County, OR.

A MS retail nursery is confirmed to have *P. ramorum*-positive *Camellia* sp. during a *P. ramorum* National Nursery Survey inspection. Trace-back investigations are being conducted. CNP is underway at the facility.

*P. ramorum* federal order compliance agreements, trace-forward/-back investigations, the USDA APHIS National Nursery Survey, and other investigations are ongoing. To date, 48 sites in 9 states have had *P. ramorum* detections. Positive findings by state are: AL(1), CA(25), FL(2), GA(1), IN(1), ME(1), MS(1), OR(13), and WA(3).

*P. ramorum*-positive *Camellia japonica* 'Kramer's Supreme' is detected at a Napa County production nursery as a result of a Sacramento County nursery trace-forward investigation. The addition of this facility brings California’s 2006 total number of confirmed nurseries to 25.

6/06

*Osmanthus fragrans* (sweet olive) and *Osmanthus heterophyllus* (false holly), are found *P. ramorum*-positive in a Humboldt County nursery. APHIS is reviewing the findings and anticipates adding these new species to the APHIS “Plants Associated with *P. ramorum*” list in the near future.
• APHIS confirms *Nerium oleander* (Oleander) to be a new *P. ramorum*-associated host when delimitation survey samples from the Humboldt County facility are confirmed positive.

• Forty-three states have reported compliance inspection or National Nursery Survey results. Puerto Rico, AK, IA, and MO are not participating in the Survey, and WI is looking for *P. ramorum* as part of their regular nursery inspection process. To date in 2006; 2,786 nurseries have been visited, with 88,973 samples collected. Out of the samples collected, 327 have been confirmed *P. ramorum*-positive, totaling 42 positive sites in five states (CA, OR, WA, FL, and MS).

• CA has six *P. ramorum*-positive nursery confirmations. Two of the confirmations are in production facilities and four are retail nurseries. Affected counties include: Sonoma, San Joaquin, Sacramento, and San Mateo. Four of the nurseries have had prior *P. ramorum* confirmations. These new finds bring the State’s 2006 total number of *P. ramorum*-positive nurseries to 24.

• ODA completes its *P. ramorum* Federal Order certification for 2006. Of the 62,045 samples collected from 1,112 growing areas, *P. ramorum* was found at 13 nurseries (about 1.0 percent). CNP has been enacted at all 13 sites. A total of 938 host and 1,000 non-host nurseries in OR now qualify for certification under the Federal Order certification program.

• ODA completes its statewide survey of Christmas tree plantations. A total of 4,480 samples were collected from 113 plantations; no *P. ramorum* was found at any of the sites surveyed. This is the fifth consecutive year no *P. ramorum* has been found in OR Christmas trees.

• A *P. ramorum* survey of OR retail nurseries is now underway. ODA plans to survey and sample approximately 150 retail nurseries that sell *P. ramorum*-susceptible plants.

5/06

• Six California nurseries are identified as *P. ramorum*-positive, bringing the State’s 2006 total number of positive nurseries to 18. Confirmations are made in Humboldt, Marin, Mendocino, Los Angeles, Tulare, and Santa Clara Counties. Two of the nurseries do ship interstate and two of the nurseries have had *P. ramorum* detections in previous years. Positive plants include: *Viburnum tinus, Camellia sasanqua, Camellia japonica, Rhododendron, Laurus nobilis*, and *Magnolia grandiflora*.

• The first detection of *P. ramorum* on *Magnolia grandiflora* in a US nursery is made at a Santa Clara County, CA production facility. The nursery does ship interstate, and was also found *P. ramorum*-positive in 2005.

4/06
- Four CA P. ramorum nursery confirmations are made, including: a San Mateo County producer, a Sacramento County producer, and two Alameda County retail nurseries. All four sites identified have positive Camellia, with one facility also having positive Rhododendron and Pieris. Three of the four nurseries have previously been found to have P. ramorum-positive plants. These 4 confirmed facilities bring the State’s 2006 total to 12.

- As of April 14th, ODA has identified P. ramorum at 4 sites surveyed as part of the P. ramorum 2006 Federal Order Inspection. Three of the sites are small grower facilities located in Polk, Washington, and Lane Counties. The fourth site is a small retail facility located in Lane County. Positive plants include Camellia japonica, Rhododendron, and Pieris japonica. Two of the small grower nurseries ship a small volume of host plants out-of-state; trace-forward investigations are underway. CNP has been initiated at all sites.

3/06

- New Zealand issues a public notice addressing nursery stock importation concerns, including risk mitigation measures and the host list for P. ramorum. With the exception of high-value plants for which the risk of P. ramorum is mitigated, hosts of P. ramorum are only permitted to be imported from countries recognized by New Zealand as Pest-Free Areas, which currently include: Australia, Canada, Israel, and South Africa. The proposed date of adoption and enforcement is May 29, 2006.

- Taiwan, Penghu, Kinmen, and Matsu issue a public notice proposing a draft amendment of the “Quarantine Requirements for the importation of plants or plant products.” Among the changes is the designation of P. ramorum as a quarantine pest, whereby: “The importation of living plants (excluding flowers, fruits and seeds) of its hosts will be prohibited. Regions or countries affected include: Belgium, British Channel Islands, Denmark, France, Germany, Ireland, Italy, Netherlands, Norway, Poland, Slovenia, Spain, Sweden, Switzerland, UK, BC, CA, FL, GA, OR, and WA.

- CA confirms three nurseries to be P. ramorum-positive, including: a Sacramento production facility, a retail nursery in Alameda County, and a Solano County production facility. All confirmations made were on Camellia. One facility has previously been found positive. P. ramorum-positive nurseries for CA in 2006 now total eight.

- Florida confirms two P. ramorum-positive nurseries. Of the 23 Camellia plants found infected, five species were identified, including japonica, sasanqua, sinesis, hiemalis, and vernalis. Both of the Tallahassee nurseries were also found positive in 2004 surveys, following trace-forward investigations from a Southern California wholesale facility. It has not been determined if the pathogen was re-introduced or if it has persisted at the nurseries in soil and/or water since the initial findings.

2/06

- A water sample taken from a seasonal stream in Pierce County, WA is confirmed P. ramorum-positive. Plants from the adjacent nursery tested
positive in 2004 and 2005. Agencies are monitoring the water upstream and downstream from the positive site to determine the extent of water contamination. Monitoring for signs of infestation throughout the immediate watershed area outside of the nursery will also be conducted.

- APHIS issues a SPRO Letter, adding 13 new plant species to the federal \textit{P. ramorum} associated host list. The SPRO can be found on the APHIS website under “Revision of Listed and Regulated Articles” dated 2/10/06 at: http://www.aphis.usda.gov/plant_health/plant_pest_info/pram/regulations.shtml.

- Koch’s postulates are completed for \textit{Frangula purshiana} (formerly listed as \textit{Rhamnus purshiana}), \textit{Adiantum aleuticum}, and \textit{Adiantum jordanii}. Consequently, APHIS reclassifies these associated hosts as hosts.

- APHIS issues a Trace-Forward Protocol for Nurseries that Received Plant Material Shipped from a Confirmed \textit{P. ramorum}-Infested Nursery. The new protocol is intended to establish a set of procedures that are used to determine if a nursery that has received plants from a \textit{P. ramorum}-positive nursery acquired infected nursery stock, thus becoming infested as well.

- CDFA identifies four \textit{P. ramorum}-positive nurseries: a production facility in Contra Costa County, a retail nursery in Alameda County, a retail nursery in Nevada County, and a Napa County retail nursery. Plants found positive for the pathogen included \textit{Camellia} and \textit{Pieris}; all four nurseries have previously been identified as having \textit{P. ramorum}-positive plants.

\textbf{1/06}

- The first 2006 \textit{P. ramorum}-positive nursery is identified during a CA compliance agreement inspection. The find was made on a \textit{Camellia japonica} in a Los Angeles County production nursery that only sells plants to local landscapers and does not do any shipping of plant material. This nursery was also found \textit{P. ramorum}-positive during last year’s compliance agreement inspection, and had completed CNP in May 2005.

- The Canadian nursery industry implements a \textit{P. ramorum} Nursery Certification Program. Key program components include annual sampling and testing, training, and independent audits. For more information, go to the CNLA website: http://www.canadanursery.com/Page.asp?PageID=122&ContentID=750&SiteNodeID=102.

\textbf{11/05}

- A WSU researcher isolates \textit{P. ramorum} from California red fir (\textit{Abies magnifica}) symptomatic shoots at a Christmas tree farm near Los Gatos, CA. Koch’s Postulates have not been completed. The findings are being evaluated and considered by APHIS for the potential addition of California red fir to the regulated host list.
10/05

- For the fourth year in a row, *P. ramorum* has not been found in OR Christmas tree plantations. Based on these results, Christmas tree plantations in all OR counties surveyed are officially declared *P. ramorum*-free for 2005.

- *Viburnum opulus* (=*V. trilobum*), or American cranberry viburnum, is found to be *P. ramorum*-positive at a nursery in Clackamas County, Oregon on June 6, 2005. APHIS has reviewed the findings and expects to add American cranberry viburnum to the *P. ramorum* associated host list soon.

- Real-time PCR is validated by USDA APHIS PPQ CPHST for providing diagnostic determinations for the *P. ramorum* federal emergency program.

- The HRI (research division of the ANLA) convenes a national working group to explore the role of nursery management practices in the battle to limit *P. ramorum* spread. The group will develop RMPs that can be used by nurseries nationwide to establish or improve management plans. Long-term goals include building a working model for response to emerging plant pests.

- APHIS confirms the detection of *P. ramorum* at two nurseries in Washington State. These two additional infested nurseries are located in Snohomish County and King County. Infected species at both nurseries are varieties of Rhododendron.

- To date this year, 99 sites in seven states have had nursery-related *P. ramorum* detections. Positive findings by state are: CA(55), GA(4), LA(2), OR(20), TN(1), SC(1), and WA(16).

9/05

- CDFA confirms the detection of *P. ramorum on Abies concolor* (white fir) at a Christmas tree farm in the quarantined county of Santa Clara. This is the first report of the pathogen on this species of *Abies*. With Koch’s Postulates not complete, APHIS expects to add *A. concolor* to the official list of associated host plants soon.

- APHIS issues an updated SPRO Letter, adding the eight new associated host plants to the list of *P. ramorum*-regulated plants. The addition of these eight plants brings the list of regulated *P. ramorum* host and associated hosts to 83. To access the SPRO, go to the APHIS website and refer to the 9/14/05 SPRO at: [http://www.aphis.usda.gov/ppq/ispm/pramorum/](http://www.aphis.usda.gov/ppq/ispm/pramorum/).

- The USDA issues a strategic plan for *P. ramorum* titled: “Plant Diseases Caused by *Phytophthora ramorum*: A National Strategic Plan for USDA.” The report addresses the goals for the *P. ramorum* detection, control, management, research, and restoration programs of the Department.

- As of 9/05, England has had 380 *P. ramorum* retail and nursery confirmations, and Wales has had 26.
A Nursery Pest Advisory Task Force (NPATF) is created at the request of California’s Secretary of Agriculture, A.G. Kawamura. The Task Force is comprised of representatives from the USDA, CDFA, CDF, UC Davis, county agricultural commissioners, and the nursery industry. The group will address issues related to new and/or emerging nursery pests. Their present focus is working in concert with the California Oak Mortality Task Force in its efforts to address *P. ramorum* issues.

CDFA has identified 53 *P. ramorum*-positive CA nurseries in 2005. Ten of the confirmed nurseries ship interstate, with two of the ten shipping only to Nevada outside of California’s borders. Eight of the confirmed nurseries have had recurrent infestations.

USDA APHIS issues an updated State Plant Regulatory Official (SPRO) Letter, adding eight new associated host plants and two new host plants to the list of plants regulated for *P. ramorum*. The addition of these 10 plants brings the list of regulated *P. ramorum* host and associated hosts to 75. To refer to the SPRO, go to: [http://www.aphis.usda.gov/ppq/ispm/pramorum/](http://www.aphis.usda.gov/ppq/ispm/pramorum/).

Six hosts are moved from the associated host list to the host list, with all having Koch’s Postulates complete and having been approved by USDA APHIS. The six newly classified hosts are: *Castanea sativa*, *Fraxinus excelsior*, *Quercus falcata*, *Quercus ilex*, *Syringa vulgaris*, and *Taxus baccata*.

The UK officially identifies and reports to USDA APHIS three new *P. ramorum*-infected plants. *Acer laevigatum* (Evergreen maple), *Michelia doltsopa* (Michelia), and *Quercus petraea* (Sessile oak) were found in outdoor, green areas with natural infection. Koch’s Postulates have not been completed, so these plants will join the APHIS associated host list.

Five new *P. ramorum* hosts are identified in California’s quarantined county forests. The newly confirmed *P. ramorum*-susceptible plants are: *Adiantum aleuticum* (Maidenhair fern), *Fraxinus latifolia* (Oregon ash), *Osmorhiza chilensis* (Sweet Cicely), *Torreya Californica* (California nutmeg), and *Vancouveria planipetala* (Redwood ivy). Koch’s Postulates have not been completed, so these plants will be added to the USDA APHIS associated host list.

A South Carolina wholesale nursery/broker is found to have a *P. ramorum*-positive *Camellia japonica*. The nursery is part of a chain of 25 nurseries in five states, all of which deal primarily with the landscape industry. Surveys of the remaining 24 related nurseries are underway.

WSDA identifies eight additional *P. ramorum*-positive nurseries, bringing the total number of confirmed WA nurseries to 10 in 2005. Eight of the 10 positive WA nurseries in 2005 were found positive for *P. ramorum* in 2004. Of the eight new confirmations, six were retail nurseries and two were wholesale facilities. Identified hosts included primarily *Rhododendron*, but also *Kalmia*, *Viburnum*, and *Pieris*. 
• Oregon confirms six new *P. ramorum* findings, bringing the state’s 2005 confirmation total to 20. Four of the *P. ramorum*-positive sites were wholesale nurseries and 13 were retail facilities. Three of the *P. ramorum*-positive nurseries do ship out-of-state; all three ship primarily to the West Coast.

• *P. ramorum* federal order compliance agreements, trace-forward/-back investigations, the USDA APHIS National Nursery Survey, and other investigations are ongoing. To date, 91 sites in seven states have had *P. ramorum* detections. Positive findings by state are: CA(53), GA(4), LA(2), OR(20), TN(1), SC(1), and WA(10).

7/05

• The first *P. ramorum*-infected *Taxus media* is reported from the Netherlands, making this the third yew to be identified as susceptible to *P. ramorum*. With Koch’s postulates not completed, this plant is being added to the USDA APHIS list of *P. ramorum*-regulated associated host plants.

• ODA identifies five additional nurseries in four counties with *P. ramorum*-confirmations. Affected plants include: *Pieris*, *Rhododendron*, and *Magnolia*. The *Magnolia* confirmation is the first to be reported in the US.

• WSDA confirms two *P. ramorum*-positive nurseries during the National Nursery Survey. One facility has infected *Rhododendron* and the other has infected *Viburnum*, *Rhododendron*, and *Pieris*.

• Two additional retail garden center nurseries are found infested with *P. ramorum* in Georgia. One has infected *Rhododendron* and *Camellia*, while the other has infected *Camellia sasanqua*.

6/05

• A retail nursery in Bradley County, Tennessee is confirmed to have *P. ramorum*-positive *Rhododendron elegans* “Elegans” and *Rhododendron* sp. “Boursault” during their *P. ramorum* National Nursery Survey inspection.

• A production nursery in Lincoln County, Oregon is found with *P. ramorum*-infected *Rhododendron* sp. The confirmation is made during a compliance agreement renewal.

• A Los Angeles County, CA retail nursery is found to have *P. ramorum*-positive plants that have been shipped directly to customers, not nurseries or garden centers. Shipments went to 32 states nationwide as well as 9 foreign countries. Regulatory officials are informing affected states of the shipments.

• Six additional California nurseries are identified as *P. ramorum*-positive; one had been found positive for the pathogen previously. Five of the nurseries are production facilities and one is a retail site. Of the two nurseries that ship interstate, one only ships stock to Nevada.
To date this year, 62 sites in 5 states have had *P. ramorum* detections. Positive findings by state are: CA(48), GA(2), LA(2), OR(9), and TN(1).

5/05

- *P. ramorum*-positive mountain laurel (*Kalmia latifolia*) and camellia are confirmed at a Gwinnett County, GA wholesale nursery. The plants are identified as a result of the USDA APHIS National Nursery Survey. The nursery had a previous camellia *P. ramorum* confirmation in 2004.

- A second GA retail nursery is found positive for *P. ramorum*. The facility was a positive trace-forward in 2004.

- Two LA nurseries are found to have *P. ramorum*-positive camellias during the USDA APHIS National Nursery Survey. One of the nurseries was found to have the pathogen in 2004; the other is an initial find.

- CDFA identifies 16 additional CA nurseries with *P. ramorum*-positive plants; four of the nurseries ship interstate. Two of these confirmations are from previously positive nurseries.

- An updated "Nursery Guide for Diseases Caused by Phytophthora ramorum on Ornamentals: Diagnosis and Management" is available free of charge at the University of California Agriculture and Natural Resources website.

4/05

- APHIS confirms the presence of *P. ramorum* on an OR jasmine plant sample. As a result, ODA, APHIS, and others are working to determine jasmine’s status as a host of *P. ramorum*.

- Monrovia implements a plant replacement program for retail customers whose plants originated from their Azusa facility. Customers replacing plants should **NOT** bring them to garden centers.

- ODA identifies two *P. ramorum*-positive nurseries while conducting Federal Order compliance surveys. One was a small retail nursery in Washington County with infected *Pieris japonica* and the other a production and wholesale facility in Clackamas County with infected *Rhododendron ‘Unique.’*

- OR reports four trace-forward positives in residential settings. The residential finds originated at a nursery found positive in 2004. Delimitation surveys confirmed the disease has apparently not spread to other plants already in the landscapes. Infected plants have been removed and incinerated.

- CDFA reports additional *P. ramorum*-positive plants found at the Sacramento, CA, retail nursery found positive in March. Infected plants include rhododendron, camellia, viburnum, and pieris.

- CDFA has confirmed 32 *P. ramorum*-positive California nursery in 2005. Twenty-two of the confirmations have been made outside of the 14-county
quarantined area, while ten have been found within it. Of those nurseries found to be infested, seven have previously tested positive for the pathogen.

- The first *P. ramorum*-positive *Acer pseudoplatanus* (Planetree maple) is confirmed at a *P. ramorum* woodland garden site in Cornwall, UK. Pending USDA review and approval, it will be added to the US list of *P. ramorum*-regulated plants.

- The UK completes Koch's postulates on: sweet chestnut (*Castanea sativa*), Holm oak (*Quercus ilex*), and European ash (*Fraxinus excelsior*). Following USDA review and approval, plants will be moved to the US *P. ramorum* host list.

- **The CFIA issues an updated *P. ramorum* directive 3/1/05**, superseding the 9/25/03 order in response to the USDA APHIS 12/21/04 Emergency Order. USDA APHIS is provided $9.5 million in emergency funds through the USDA CCC to help support *P. ramorum* regulatory activities in 2005.

3/05

- A Sacramento, CA retail nursery is found to have *P. ramorum*-infested *Rhododendron* sp. v. Colonel Coen. CDFA has delimited the infestation and destroyed infected lots. Trace-back investigations are underway.

- 2004 *P. ramorum* nursery detection statistics are updated to account for an additional bonsai camellia confirmed positive in February 2005. The Pennsylvania sample was confiscated in June 2004. With this new confirmation, the total number of USDA APHIS *P. ramorum*-positive detections (in or associated with nurseries) for 2004 has been adjusted to 177 positive finds in 22 states, with Pennsylvania having 2 detections.

2/05

- CDFA completes delimitation and perimeter surveys of the Los Angeles County, CA nursery confirmed to have *P. ramorum* in January. To date, one culture sample from a block of 898 *Camellia japonica* plants has been confirmed positive by APHIS. Four other samples from the block have tested positive by CDFA. All 898 plants in the infected block have been destroyed. The nursery has resumed shipping non-host plants from outside the destruction block and buffer areas. Host and associated host plants, to the genera level, are still being held and will not be released until all test results are complete. No plants from trace-forward investigations have tested positive to date.

1/05

- A previously identified *P. ramorum*-positive nursery in Los Angeles County, CA has detected infection on camellia. The symptomatic plant was identified following a series of rainstorms. Leaf samples were taken and cultured on-site. Following the CDFA review and confirmation of the nursery’s camellia
culture sample, the USDA’s Confirmed Nursery Protocol (CNP) was implemented.

- The Canadian Food Inspection Agency (CFIA) lifts its restriction on *P. ramorum* host cut flowers (including roses) from non-quarantine California counties as a result of the new USDA Animal and Plant Health Inspection Service (APHIS) Federal Emergency Order.

- The UK’s Department of Environment, Forestry, and Rural Affairs (DEFRA) has identified six new plants associated with *P. ramorum*: Griselinia littoralis – Cornaceae (NZ privet); *Hamamelis mollis* – Hamamelidaceae (Chinese witch-hazel); Magnolia stellata – Magnoliaceae (star magnolia); *Magnolia x loebneri* – Magnoliaceae (Loebner magnolia); *Magnolia x soulangeana* – Magnoliaceae (saucer or Japanese magnolia); and *Parrotia persica* – Hamamelidaceae (Persian Parrotia or irontree). It is anticipated that APHIS will soon be adding these species to their official *P. ramorum* associated host list. Once included on the US list, these plants will fall under federal *P. ramorum* regulations.

12/04

- The Animal and Plant Health Inspection Service (APHIS) issues an emergency federal order that will take effect on 1/10/05, superseding the 4/22/04 emergency order. The new order regulates the interstate movement of host and non-host plants from nurseries in California, Oregon, and Washington to help prevent the spread of *P. ramorum* to uninfested areas of the US.

- False Solomon’s seal (*Maianthemum racemosum*, formerly *Smilacina racemosa*), *Calluna vulgaris* (Scotch heather), and *Photinia fraseri* (Red tip photinia) are moved from the APHIS associated host list to the host list in the 12/21/04 Federal Order. These changes are made because of the completion of Koch’s postulates for each species.

- With the new USDA APHIS emergency *P. ramorum* order taking effect, Canada will rescind regulations implemented as a result of the Monrovia event last March. Following the Monrovia confirmations, Canada quarantined rose plants and cut roses as well as all host genera plants and plant parts from anywhere in CA. Canada’s updated regulation will only affect CA’s 14 quarantined counties. Additionally, Canada is no longer considering quarantine regulations for WA and OR. With the new federal order in place, Canada will accept any material that is in compliance with US rules.

- Currently there are 176 USDA APHIS confirmed positive *P. ramorum* sites in 22 states from trace-forward, national, and other surveys. The breakdown per state is: AL(3), AR(1), AZ(1), CA(55), CO(1), CT(3), FL(6), GA(16), LA(5), MD(3), NC(9), NJ(1), NM(1), NY(1), OK(1), OR(24), PA(1), SC(4), TN(2), TX(11), VA(2), and WA(25). The newly identified Maryland nursery tested positive after being sampled as part of the Hines Nursery (OR) trace-forward investigation.
Omnibus appropriations for federal *P. ramorum* funding in 2005 is $9.89 million. The Agricultural Appropriations Bill earmarked $1.45 million for the Agricultural Research Service; $94,000 for the Cooperative State Research, Education, and Extension Service; and $3 million to the Animal and Plant Health Inspection Service. The Interior Appropriations Bill earmarked $2 million to USDA Forest Service (FS) Cooperative Lands Forest Health Management and $2.5 million to USDA FS Forest and Range Land Research.

The Oregon Department of Agriculture receives and approves a revised federal label for the use of Agrichem’s Agri-Fos® on landscape, golf course, nursery, forestry, and park sites for Phytophthora and Pythium diseases, including Sudden Oak Death. Oregon will allow all uses listed on the approved product label. Note: California currently has a Special Local Needs registration for Agri-Fos® use on oaks and tanoaks to prevent *P. ramorum*.

*P. ramorum* is detected at six additional Oregon nurseries while conducting compliance agreement surveys. *P. ramorum* has now been found at 13 nurseries as a result of the survey. No infected plants were found at Christmas tree plantations. Additionally, trace-forward investigations from a positive nursery in Forest Grove, OR results in pathogen identifications in three Connecticut nurseries.

The Washington State Department of Agriculture (WSDA) inspects more than 100 Christmas tree plantations for *P. ramorum* on a fee-for-service basis. Additionally, WSDA and the Department of Natural Resources complete surveys on 98 Noble fir (*Abies procera*) sites. As part of the *P. ramorum* National Wildland Survey, 93 nursery perimeters and 26 wildland sites have been surveyed. *P. ramorum* was not found. To date, no Washington conifers have been found to harbor the pathogen.

The federal “Confirmed Residential Protocol for *P. ramorum* Detections in Landscaped Residential or Commercial Settings” is now posted to the USDA APHIS PPQ website. The protocol describes actions to be taken by regulatory officials when *P. ramorum*-positive plants are found in home gardens and other landscaped areas.

Four additional Oregon nurseries are identified with *P. ramorum*-positive plants. Three of the nurseries are small and do not routinely ship interstate, while the fourth does do some out-of-state shipping. Three of the nurseries are located in the northern part to the Willamette Valley and the fourth is in southwestern Oregon.

“*P. ramorum – a guide for Washington nurseries*” is now available. The guide covers host and associated plant species, host symptoms, pathogen biology, disease prevention, cultural management, protection and suppression with fungicides, and detection and eradication.
- The USDA APHIS PPQ *P. ramorum* National Nursery Survey activities are complete in 38 states and Puerto Rico. To date, participating states throughout the US have surveyed 3,095 sites and have collected 50,820 samples. Fifteen survey sites have been confirmed positive.

- UK Minister for Plant Health and Forestry Ben Bradshaw announces *conditional financial assistance* for nurseries suffering hardships related to actions taken to protect the wider UK environment from *P. ramorum*.

9/04

- The Oregon Department of Agriculture Plant Division posts a list of 119 nurseries and 287 Christmas tree growers that are participating in Oregon’s *P. ramorum*-free program. To be posted to the list, nurseries and Christmas tree growers must have been inspected, tested, and found *P. ramorum*-free, and must have signed a compliance agreement with the state.

- APHIS PPQ *P. ramorum* National Nursery Survey activities are complete in AK, AR, AZ, CA, IA, ID, LA, MO, MT, NE, ND, OK, and SD; diagnostic results are pending. To date, participating states have surveyed 2,166 sites and have collected 39,406 samples, with 15 sites being confirmed positive (total positive national survey sites have been adjusted downward due to re-categorization of WA finds).

- The US Forest Service *P. ramorum* Nursery Perimeter Survey is underway. To date, 2,430 samples have been taken from 610 locations. All completed results have been reported as negative for *P. ramorum*.

- USDA APHIS PPQ confirms *P. ramorum* at two production areas owned by a large wholesale nursery in Washington County, OR, and at a bark supply company in Columbia County, OR.

- The Washington State Department of Agriculture begins testing symptomatic and asymptomatic plants coming into the state before unloading shipments in an effort to prevent new *P. ramorum* introductions on host nursery stock.

- Effective September 9, 2004, the National Plant Quarantine Service, Ministry of Agriculture and Forestry, Republic of Korea (NPQS), modified its "Tentative phytosanitary measures to prevent the introduction of Sudden Oak Death (SOD) Disease." Updates to the regulation include the addition of Nassau County, NY, as well as 22 new plant species. These emergency measures prohibit the importation of any propagative host material, such as nursery stock and cuttings, as well as wood (with bark) and growing media from the prohibited areas.

8/04

- The Oregon Department of Agriculture (ODA) lifts its quarantine of Columbia County nurseries and compost production facilities after determining that the pathogen did not spread beyond the initial confirmation location identified in May 2004. However, ODA will continue to inspect and test all Oregon
nurseries with hosts as part of its statewide *P. ramorum* nursery certification program.

- The USDA Animal and Plant Health Inspection Service (APHIS) adds *Calluna vulgaris* – Scotch Heather (Ericaceae), *Drimys winteri* - Winter's-bark (Winteraceae), *Laurus nobilis* – Sweet bay laurel (Lauraceae), and *Salix caprea* – Kilmarnock willow (Salicaceae) to the *P. ramorum* associated host plant list.

- APHIS removes *Vaccinium vitis-idaea* (lingonberry) from the *P. ramorum* associated host plant list because the Plant Protection and Seed Service of Poland is unable to validate their original association of lingonberry with *P. ramorum*.

- To date, 157 *P. ramorum*-positive locations in 21 states have been identified via trace-forward, national, and other surveys. This total includes three residential finds (two in GA and one in SC) as well as one find in a natural setting in NY.

### 7/04

- The California Association of Nurserymen (CAN) files a federal suit against Kentucky, charging the state with violating federal law by banning the importation and sale of California’s *Phytophthora ramorum* host and associated plants. The lawsuit is based on a provision in the federal Plant Protection Act that gives the USDA authority over interstate plant movement. A federal district judge for the Eastern District of Kentucky signs a consent decree on 7/30 permanently enjoining Kentucky from having *P. ramorum* regulations that are inconsistent with the federal standard.

- The states of AK, AR, AZ, CA, LA, OK, and SD complete their *P. ramorum* National Nursery Survey sampling.

- **Mississippi updates its emergency *P. ramorum* regulations** on 7/9/04. The newly expanded regulation prohibits the importation of California, Washington, and Oregon *P. ramorum* host and associated plants at the genus level.

- The Canadian Food Inspection Agency's (CFIA) national survey for *P. ramorum* is underway. To date, survey results have identified 7 infected plants, including Viburnum, Arbutus, Rhododendron, and Camellia, at 3 facilities. One of the BC *P. ramorum*-positive nurseries shipped potentially infected plants to Washington (9 recipients), Oregon (4 recipients), and California (6 recipients); these shipments are being investigated. While both the North American (A2) and European (A1) *P. ramorum* mating types were found in BC during the national survey, only the North American type was potentially shipped to the US.
• **British Colombia conducts a recall** of *P. ramorum* host plants sold from retail centers that received trace-forward material from Monrovia Nursery. An estimated 50% of the plants sold were returned from private residences. Of the 1,400 plants recovered and sampled, 9 *Camellias* were found to be positive. CFIA estimates that an additional 1,500 plants are still unaccounted for in the greater Vancouver area.

• **Mexico is considering quarantining** Douglas-fir (*Pseudotsuga*) and fir (*Abies*) Christmas trees from areas with *Phytophthora ramorum* to prevent introduction of the pathogen into Mexico.

• The states of DE, FL, KY, LA, MS, and WV request a Special Needs Exemption from the current *P. ramorum* federal regulations. USDA APHIS denies the requests. Some states plan to appeal the decision.

• PPQ *P. ramorum* National Nursery Survey sampling is complete in AK, AR, AZ, CA, IA, ID, LA, MO, OK, and SD; diagnostic results are pending. To date, participating states have surveyed 1,573 sites and have collected 31,230 samples; 18 sites have been confirmed positive.

• The first finding of *P. ramorum* in Switzerland is found in a Swiss Plateau nursery on a wilting viburnum plant.

• There currently are 147 positive *P. ramorum* confirmations in 21 states.

6/04

• The USDA Animal and Plant Health Inspection Service (APHIS) announces the regulation of *Camellia spp.* (including all species, hybrids, and cultivars) at the genus level.

• *Clintonia andrewsiana* (Andrew’s clintonia bead lily), *Dryopteris arguta* (California wood fern), *Smilacina racemosa* (false Solomon’s seal), and *Taxus brevifolia* (Pacific yew) are added to the *P. ramorum* associated host list.

• The **Oregon Department of Agriculture (ODA) adopts a temporary rule** calling for all Oregon growers and dealers of *P. ramorum*-susceptible plants to be annually inspected, tested, and certified free from the pathogen before host plants are allowed to be sold.

• Genotyping of *P. ramorum* isolates linked to the Monrovia infestation verifies the pathogen is the North American population type (A2).

• The **ODA adopts an emergency 90-day quarantine** for all nurseries and compost production facilities in Columbia County.

5/18/04

• US Department of Agriculture Secretary Ann Veneman transferred $15.5 million from the USDA Commodity Credit Corporation (CCC) to Plant Protection and Quarantine (PPQ), Animal and Plant Health Inspection Service
(APHIS), to help halt the spread of *Phytophthora ramorum* to non-infested areas of the United States. When added to the $2.5 million that APHIS has already provided for the national survey and the $2 million of appropriated funds, the USDA PPQ has committed $20 million to the program in fiscal year 2004. USDA PPQ will apply the funds to quarantine actions, nursery inspections, sampling and testing, and Sudden Oak Death education and outreach. The PPQ Western Region received more than $12 million dollars; with nearly $7 million going to support activities in California. The Eastern Region received $2.5 million to support emergency actions and the national survey in states east of the Mississippi River. Additionally, nearly $500,000 has been dedicated to laboratory diagnostics through the National Plant Diagnostic Network and other laboratories.

- P. ramorum is confirmed at a Columbia County nursery. The pathogen is recovered from a composite potting media sample taken from several plants in one hoop house. It is also confirmed on three rhododendron plants at a neighboring business. The plants had been donated to the business from the nursery.

5/10/04

- North Carolina confirms a ninth *P. ramorum*-positive nursery. The find is on trace-forward plants from California's Monrovia Nursery.

5/4/04

- A fifth retail nursery in Louisiana is found to have *P. ramorum* on Monrovia Nursery trace-forward stock.

5/04

- *P. ramorum* is detected at a Pennsylvania nursery on a bonsai camellia house plant. The plant was from a San Diego County mail-order nursery.

- Twenty-five states have begun conducting National Nursery Survey activities. The 15 eastern states underway with survey activity are AL, CT, DE, FL, GA, KY, MD, MS, NJ, NC, RI, SC, TN, VA, and WV. The 10 western states underway with survey activity are AZ, AR, CA, ID, IA, LA, MO, OK, OR, and WA.

- West Virginia revises its *P. ramorum* quarantine, allowing nursery stock from certified nurseries to ship into West Virginia. Pre-notification of all nursery stock as well as non-host nursery stock certification are required.

- North Carolina and Oregon enact regulations that parallel the USDA Animal and Plant Health Inspection Service (APHIS) Plant Protection and Quarantine (PPQ) emergency order for *P. ramorum*.

- Alabama detects *P. ramorum* in 3 nurseries.

- Arkansas detects *P. ramorum* in 1 nursery.
A Columbia County, Oregon nursery is found to have *P. ramorum* on four rhododendron plants following a trace-back survey from a Maryland nursery found to have the disease in late April. Following delimitation surveys within and outside the nursery, *P. ramorum* was also recovered from the potting media of a single plant as well as three plants in nearby landscaping that were form the nursery.

4/30/04

- The USDA APHIS amends the *P. ramorum* Federal Confirmed Nursery Protocol of 4/7/04 pertaining to holding and stopping of nursery sales for nurseries that only state intrastate. Under the new amendment, nurseries that are found to be positive, and only ship intrastate, are only required to place host nursery stock on hold until delimitation with and outside of the nursery are complete.

4/27/04

- *Phytophthora ramorum* is confirmed at a Colorado nursery. The find is on a trace-forward stock from Monrovia Nursery.

4/26/04

- The week of 4/26 - Louisiana's ban on CA nursery stock now allows for the shipment of plant material from nurseries that have undergone sampling and testing according to the protocols outlines in the USDA APHIS April 22, 2004 Order and are certified to be free from *P. ramorum*. Prior notification of each shipment is to be provided to Louisiana Department of Agriculture and Forestry (LDAF), along with a copy of the Compliance Agreement between CDFA/USDA and the nursery.

4/22/04

- USDA APHIS issues an amended emergency order. The amended order restricts the movement of nursery stock from California nurseries, requiring nurseries that ship *P. ramorum* hosts or associated plants interstate to be inspected by a regulatory official, sampled, and tested for the disease before shipping. Until testing is complete and the nursery is found to be free from the pathogen, all out-of-state shipments of host nursery stock and associated articles, as well as plants within the same genus as any host or associated article, and any plant located within 10 meters of a host or associated article, must remain on hold.

- A Butte County nursery in Chico is found to have *P. ramorum* during California's Statewide Detection Survey, part of the National *P. ramorum* Nursery Survey.

4/19/04
• A Stanislaus County nursery previously found to be infested with *P. ramorum* in 2002 is confirmed to have new *P. ramorum*-infected plants. The find came during California's Statewide Detection Survey.

• A Sonoma County nursery in Santa Rosa is confirmed to have *P. ramorum* on trace-forward stock from Monrovia Nursery.

• The Georgia Department of Agriculture verifies the presence of *P. ramorum* in eight more Georgia nurseries on camellias imported from Monrovia Nursery.

• The week of April 19th, *P. ramorum* samples from two Tennessee nurseries are confirmed positive. The infected plants originated from California. Tennessee is participating in the *P. ramorum* National Nursery Survey and will continue to monitor these sites.

**4/15/04**

• USDA Undersecretary Hawks hosts a National Association of State Departments of Agriculture meeting to discuss the Emergency *Phytophthora ramorum* Order in Riverdale, Maryland.

• *P. ramorum* is detected in one nursery in New Mexico. The plants are trace-forwards from Monrovia Nursery.

**4/13-14/04**

• The National Plant Board calls an emergency meeting at USDA Headquarters, Riverdale, Maryland to discuss the April 9 USDA APHIS PPQ *Phytophthora ramorum* order.

**4/9/04**

• The USDA Animal and Plant Health Inspection Service (APHIS) issues an emergency order restricting the interstate movement of hosts and associated plants from commercial nurseries in California located outside of the 12 quarantined counties. Nurseries wishing to ship hosts and associated plants must first be visually inspected and determined to have no evidence of *P. ramorum* infection before shipping can occur.

• Through the California Statewide Nursery Survey, a nursery in Linden, San Joaquin County, is found to have camellia plants positive for *P. ramorum*.

• *P. ramorum*-infected rhododendron plants were detected in a nursery in Livermore, CA (Alameda County) as part of a trace forward done from Monrovia nursery.

• *P. ramorum* is confirmed at a retail garden center in Virginia; the infected plants came from Monrovia Nursery.

**4/8/04**
- **Oregon issues an emergency quarantine** of California nursery stock, prohibiting shipment of susceptible plant material unless the nursery or area from which it is grown has been inspected, tested, and found free of *Phytophthora ramorum*. Each shipment itself must also be inspected and found free of the pathogen before being allowed into Oregon. Soil must also be sterilized.

- **Alabama** updates its quarantine, removing Oregon, Washington, and British Columbia from their regulation. California remains banned from shipping into Alabama.

**4/6/04**

- **Georgia verifies the presence of Phytophthora ramorum** at five of its nurseries on plants imported from Monrovia Nursery in California.

- **Washington issues an emergency rule** requiring susceptible species of nursery plants from California be inspected and issued a certificate confirming they are free of *Phytophthora ramorum* before shipment. A copy of the certificate must be sent to Washington regulatory officials prior to shipment.

**4/4/04**

- A nursery in Lodi, San Joaquin County, is found to have *Phytophthora ramorum* on camellia and viburnum plants during inspection as part of the California Statewide Nursery Survey.

- CDFA issues a **Pest Exclusion Advisory** regarding shipments into California from other states and Canada, requiring all shipments containing *Phytophthora ramorum* hosts and associated plants to be visually inspected for *Phytophthora ramorum* symptoms upon arrival.

**4/2/04**

- Florida confirms *Phytophthora ramorum*-infected camellias in two more nurseries that received shipments from Monrovia, bringing the total number of infested nurseries in Florida to five.

- A Napa County nursery is found to have *P. ramorum* -infected nursery stock that originated from Monrovia Nursery.

**4/1/04**

- *P. ramorum* is found at a San Mateo County garden center and an Alameda County nursery. Both finds are on Monrovia Nursery trace-forward stock.
• A Santa Clara County nursery under a compliance agreement is found to have *P. ramorum* -infected plants that originated from Monrovia Nursery.

4/04

• A nursery in Sonoma County is found positive for *P. ramorum* during its initial annual inspection. The inspection was the result of the nursery’s interest in entering into a compliance agreement, allowing for shipment of *P. ramorum* host and associated host material out of the regulated area. The nursery had not shipped out of the regulated area before the inspection.

• It is announced that State and federal personnel will be conducting a survey in 37 states during the 2004 *P. ramorum* National Wildland Survey. The highest priority for survey sampling will be forests adjacent to nurseries that may have received infected CA nursery plants. The USDA Forest Service, Forest Health Protection is spending $1,084,200 for the surveys, including an emergency supplemental allocation of $530,000 for follow-up efforts on trace-forward surveys from infested CA nurseries.

• Formosa firethorn (*Pyracantha koidzumii*) is added to the *P. ramorum* associated host list, following a Canadian Food Inspection Agency (CFIA) find at a Vancouver area nursery. The infected nursery stock was detected as part of the Monrovia trace-forward inspections. If Koch’s postulates results are positive for *P. ramorum*, Formosa firethorn will be transferred to the USDA APHIS regulated host list.

• Texas confirms the presence of *P. ramorum* at five nurseries on trace-forward stock from Monrovia.

• Louisiana confirms the presence of *P. ramorum* at four retail nurseries. The finds are trace-forward stock from Monrovia Nursery.

• The North Carolina Department of Agriculture and Consumer Services confirms the presence of *P. ramorum* at eight North Carolina nurseries. The infected plants were shipped from Monrovia Nursery.

• *P. ramorum* is confirmed on a rhododendron from a retail garden center in Maryland. The plant has been traced to a nursery in Columbia County, OR.

3/31/04

• [Florida](#) confirms that 3 of its nurseries, having received shipments from California’s Monrovia Nursery, have *Phytophthora ramorum*-infected plants.

3/30/04

• [Indiana](#) quarantines all plants in the genera of host and associated host plants unless certified to be free from the pathogen.

3/29/04
• **Kentucky** issues a quarantine banning all plants and nursery stock from California. The ban includes soil and unprocessed wood or wood products.

• Virginia enhances their current inspection process, requiring nurseries to report receiving California shipments of *P. ramorum* regulated plant material, so that regulatory officials can conduct visual surveys for *P. ramorum* symptoms.

3/26/04

• **Montana** quarantines all hosts and associated plants from California; Curry County, Oregon; and Washington's King, Pierce, and Pacific Counties unless certified to be *Phytophthora ramorum*-free. Host and associated host plants originating from a nursery with a compliance agreement are able to ship. Prior notification of arrival must be given to the Montana Department of Agriculture.

• *P. ramorum* is confirmed at a Contra Costa County nursery and a San Mateo County nursery. The finds are on Monrovia Nursery trace-forward stock.

3/24/04

• **Alabama** updates its quarantine to prohibit shipments of soil, humus, compost, manure, and regulated host plants from California, Oregon, Washington, and British Columbia.

3/23/04

• **Louisiana** bans all California nursery stock shipments.

• West Virginia bans all plants and nursery stock from California as well as all soil and wood products.

3/19/04

• U.S. Department of Agriculture Plant Protection and Quarantine program announces a Sudden Oak Death (SOD) hotline (1-888-703-4457). Specialists are staffing the Animal and Plant Health Inspection Service Emergency Operations Center in Riverdale, MD to handle nationwide calls from the nursery and landscape industry, news organizations, and the general public in response to positive *Phytophthora ramorum* confirmations in two Southern California nurseries.

• Statewide *Phytophthora ramorum* Survey information is posted to the California Department of Food and Agriculture (CDFA) website at: http://www.cdfa.ca.gov/phpps/pe/sod_survey, providing current information on California's *Phytophthora ramorum* nursery situation.

• **Tennessee** announces a ban on new imports of selected plant materials from California and halts the movement of susceptible nursery stock that may have already reached Tennessee nurseries and plant dealers.
• **Utah** prohibits incoming shipments of soil, humus, compost, manure, and 28 regulated host plants from California, Oregon, Washington, British Columbia, and all other areas found to have *Phytophthora ramorum*. This Prohibition is changed to include both hosts and associated hosts shortly thereafter.

• **Georgia** updates its quarantine, banning the 59 regulated and associated hosts instead of all nursery stock from California.

3/18/04

• **Florida** stops the importation of all plant nursery stock from California, as well as the sale of products that have already reached Florida nurseries.

• **Mississippi** announces a quarantine of all *Phytophthora ramorum* host plants into Mississippi from California.

• **Delaware** quarantines shipments of all regulated and associated *Phytophthora ramorum* host plants that originate from and/or are shipped from California. Nurseries within Delaware that have received shipments of nursery stock from California are prohibited from selling, moving, or transporting this material until being released from Plant Industries, Delaware Department of Agriculture.

3/17/04

• The **Alabama** Department of Agriculture issues a stop sale of certain camellia plants that have been shipped to Alabama from California.

3/15/04

• **Georgia** issues a quarantine against all nursery plants from California.

3/12/04

• *Phytophthora ramorum* is confirmed via culture and PCR at Specialty Plants Inc., San Marcos, California. The survey was part of the California’s National *Phytophthora ramorum* nursery survey.

3/10/04

• **Washington** issues an emergency order requiring nurseries receiving trees and plants from out-of-state to hold them for 24 hours until the state Department of Agriculture is notified.

3/8/04
• *Phytophthora ramorum* is confirmed on several varieties of camellia at Monrovia Nursery, Azusa, California. The nursery was surveyed as part of the National *Phytophthora ramorum* Survey.

**3/4/04**

• The Oregon Department of Agriculture confirms the presence of *P. ramorum* in nine nurseries on trace-forward Monrovia Nursery Stock.

• Three Alameda County nurseries are confirmed to have *P. ramorum*-positive Monrovia trace-forward stock.

**2/27/04**

• The Oregon Department of Agriculture (ODA) finalizes an interim rule requiring recipients of out-of-state tree and shrub nursery stock deliveries to notify ODA of the shipment within 24 hours for possible inspection of the plants.

**2/23/04**

• Several varieties of *Camellia japonica* and *Kalmia latifolia* plants at a nursery in Sonoma County were found to have *Phytophthora ramorum*. The infected plants were detected as part of a routine quarantine inspection required for all nurseries moving host plants out of the regulated area.

**2/17/04**

• *Phytophthora ramorum* is detected on five, 5-gallon containerized *Camellia japonica* "Shiro Chan" plants at a wholesale nursery in San Mateo County. The infected plants were detected as part of a routine quarantine inspection required for all nurseries moving host plants out of the regulated area.

**2/04**

• The Gig Harbor Washington nursery found to have *Phytophthora ramorum* in December 2003 is found to have new infections on fifteen variety blocks of camellia. Two of the recently identified infected variety blocks were received in October and November, 2003, from California nurseries outside of the *Phytophthora ramorum* quarantine area. These new finds were not detected until early 2004 and were not located near the other infected blocks.

**1/28/04**

• The California Oak Mortality Task Force offers its first *Phytophthora ramorum* nursery training session in Watsonville, CA. A January 2004 draft California *Phytophthora ramorum* nursery diagnostic guide is distributed.

**1/04**
• **Phytophthora ramorum** a guide for Oregon nurseries, by J. Parke, J. Pscheidt, and R. Linderman is published by Oregon State University Extension Service.

• *Camellia sasanqua* and *Camellia japonica* plants at a Marin County nursery are found to have *Phytophthora ramorum*. The nursery had also been found to have infected plants the previous spring.

• The Washington State Department of Agriculture (WSDA) detects *Phytophthora ramorum* in a third Washington nursery near Long Beach, Pacific County. The positive *Rhododendron* v. Unique finds came as the result of a trace-back survey from a King County Washington nursery found to have *Phytophthora ramorum* in fall, 2003.

**12/03**

• As a result of the National *Phytophthora ramorum* Nursery Survey, a retail nursery in Gig Harbor, Pierce County, Washington, is found to have *Phytophthora ramorum*-infected host plants.

**11/03**

• CDFA's revised enforcement guideline policy for California's *Phytophthora ramorum* regulation goes into effect. The revisions allow unrestricted movement of host plants and most nursery stock within the 12 regulated counties. Nurseries within the regulated area shipping out of the regulated area continue to be inspected, and infected nursery stock still cannot be shipped.

**10/03**

• California, Oregon, Washington, the United States Department of Agriculture (USDA), and Canada agree to protocols for nursery delimitation, eradication, post-treatment monitoring, investigations of sources of infected plants, and notification. The plan will be used by USDA Animal and Plant Health Inspection Service (APHIS) and the states to respond to new *P. ramorum* nursery detections (outside of California's 12-county regulated area) as guidance for the federal *Phytophthora ramorum* quarantine.

**9/03**

• Canada releases the 9th revision of its *P. ramorum* regulations

• *Phytophthora ramorum* was detected on two, 5-gallon *Camellia sasanqua* "Showa-no-Sakae" plants at a retail nursery in Placer County. The finding came as the result of a trace-forward survey being conducted to locate infected varieties of camellia from an infested Stanislaus nursery. The Placer County shipment was received in March, 2003.

**8/03**
• The Oregon Department of Agriculture (ODA) adopts an emergency rule that requires all recipients of out-of-state tree and shrub nursery stock to notify ODA of the shipment for possible inspection of the plants. The requirement is in response to several instances of Phytophthora ramorum-infected nursery stock entering Oregon this year.

• Plants from a nursery in Oregon and its sister nursery in Washington are found to have both the North American Phytophthora ramorum, A2 mating type, and the European Phytophthora ramorum, A1 mating type. This is the first report of the European A1 mating type in the United States. It is also the first time both mating types have been found in close proximity to one another in the U.S. All plants sold from the Oregon nursery are traced down, confiscated, and destroyed.

7/03

• The Oregon Department of Agriculture (ODA) recalls camellia plants sold in retail nurseries in Oregon that may have been infected with Phytophthora ramorum. A trace-back survey identifies an infested nursery in Stanislaus County, California, as the location from which the camellias originated.

• CDFA issues a Pest Exclusion Advisory requiring incoming shipments of Phytophthora ramorum hosts and associated plants from Oregon, Washington, and British Columbia to be visually inspected by California county inspectors at the destination location before being released for sale.

6/03

• Phytophthora ramorum is detected on Camellia sasanqua container plants at two nursery locations in Jackson County, Oregon, as the result of trace-forward information received from CDFA. The plants originated from an infested nursery in Stanislaus County, CA.

• Phytophthora ramorum is detected on rhododendron container plants at a nursery in King County, Washington. This is the first detection of Phytophthora ramorum in Washington State.

• Phytophthora ramorum (European, A1 mating type) is detected on a rhododendron container plant at a nursery in Greater Vancouver, B.C.

• The Czech Republic imposes a quarantine for Phytophthora ramorum-susceptible plants from the U.S., Germany, and The Netherlands.

• Camellia sasanqua at a Sacramento County nursery is found to have Phytophthora ramorum. It is intercepted via a trace-forward.

5/03
Phytophthora ramorum is confirmed on containerized Viburnum bodnantense, Pieris japonica, Pieris japonica x formosa, Viburnum plicatum tomentosum, and Rhododendron 'Unique' at a nursery in Clackamas County, Oregon.

Camellia sasanqua "Bonanza" plants from a wholesale nursery in Stanislaus County are found to have Phytophthora ramorum as the result of a trace-back survey from a Santa Cruz County nursery found positive for the pathogen in April.

4/03

A rhododendron shipped from a Santa Cruz County nursery to a Berkeley nursery in Alameda County tests positive for Phytophthora ramorum. It was one of five rhododendrons and three camellias shipped to Berkeley. Alameda County inspectors detected the symptomatic leaves the day the shipment arrived.

The first report of Phytophthora ramorum on Camellia japonica and Viburnum tinus in the U.S. is confirmed at a nursery in Marin County. The portion of the holding area where the symptomatic material was detected is adjacent to a stand of Phytophthora ramorum-infected California bay laurel trees.

A 5-gallon Camellia sasanqua "Bonanza" tested positive for Phytophthora ramorum at a nursery in Soquel, Santa Cruz County. The symptomatic plant material was detected during an annual inspection. A trace-back survey found that the infected camellia was shipped from a nursery in Stanislaus County.

The United Kingdom has 264 Phytophthora ramorum outbreaks recorded on rhododendron (7 species), viburnum (11 species), Camellia japonica, Kalmia latifolia, Pieris japonica, Pieris Formosa var. forestii, Arbutus, and Syringa. Some of the findings have been in large gardens open to the public and associated with plant nurseries or garden centers. An intensive survey is ongoing.

12/02

Phytophthora ramorum is isolated from over 150 nurseries in the United Kingdom. France, Belgium, The Netherlands, Sweden, Germany, and other European countries also report widespread nursery infestations.

11/02

The European Union issues regulations for Phytophthora ramorum to prevent pathogen spread within the Union and importation of the North American genotype and A2 mating type.

10/02

The Canadian Food Inspection Agency adds a certification program to their Phytophthora ramorum regulations allowing shipments of field-grown plants into Canada from uninfested counties of California following inspection.
9/02

- Australia introduces regulations preventing the import of host species from countries known to have *Phytophthora ramorum*.
- The California Oak Mortality Task Force establishes a Nursery Subcommittee for all interested industry members to use as a forum for coordinating *Phytophthora ramorum* efforts.

5/02

- The United Kingdom bans imports of plants and wood from infested counties in California and Oregon to prevent spread of *Phytophthora ramorum*.

3/02


2/02

- 2.27.2002 – The first of two public hearing on California's interim APHIS Sudden Oak Death regulations is held in Petaluma, CA. The second hearing was held shortly after in Riverdale, MD.
- 2.14.2002 - USDA APHIS releases interim federal regulations that will oversee interstate movement of *Phytophthora ramorum* host material from the California counties known to be infested.

8/01

- South Korea imposes a *Phytophthora ramorum* quarantine on infested counties in California and Oregon prohibiting the importation of known host species.

7/01

- Oregon discovers *Phytophthora ramorum* infesting 40 acres in Curry County.

5/01

- The California Department of Food and Agriculture enacts emergency regulations, requiring permits to be issued by an authorized agricultural official before moving *Phytophthora ramorum* host plants or materials within or from infested areas.

4/01

3/01

- Canada issues a quarantine against California for the new Phytophthora.
- Oregon’s emergency quarantine becomes permanent.

1/01

- The new Phytophthora associated with dying oaks is recovered from rhododendron container plants in a Santa Cruz nursery.
- Oregon bans the new Phytophthora’s host plants and other plant products coming from California unless they have been treated. This emergency rule applies for 90 days.

11/00

- Clive Brasier, UK Forestry Commission, recognizes that an unknown Phytophthora from rhododendron in Germany and the Netherlands, that had been originally isolated in 1993-94, appears identical to the new Phytophthora isolated from dying oak trees in CA.

7/00

- U.C. researchers identify the cause of Sudden Oak Death to be a previously unknown Phytophthora species.

1995

- Arborists, urban foresters, and others begin to report unusual tanoak mortality and symptoms, including bleeding cankers and rapid crown color change from green to brown in a few weeks.