



Update from CDFA's Plant Pest Diagnostics Center

Cheryl Blomquist
November 13, 2024

Agenda

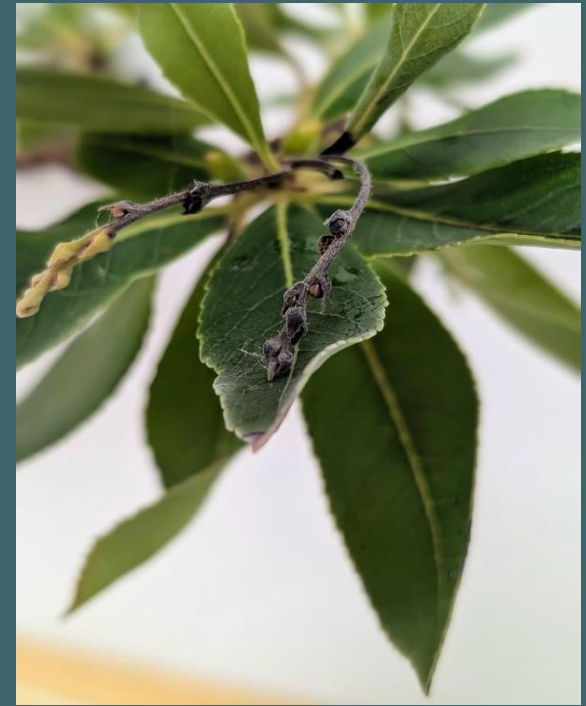
- New hosts of *Phytophthora ramorum*
- More hosts of *Calonectria californiensis*
- New wilt disease on redbud in California



Arbutus × *reyorum*
'Marina'



Arbutus × *reyorum* 'Marina' leaves infected with
Phytophthora ramorum, Humboldt Co., CA



Koch's postulates

- Inoculated 3 plants with *Phytophthora ramorum* zoospores
- Symptoms after 3 days
- *P. ramorum* reisolated from inoculated plants



Cornus capitata

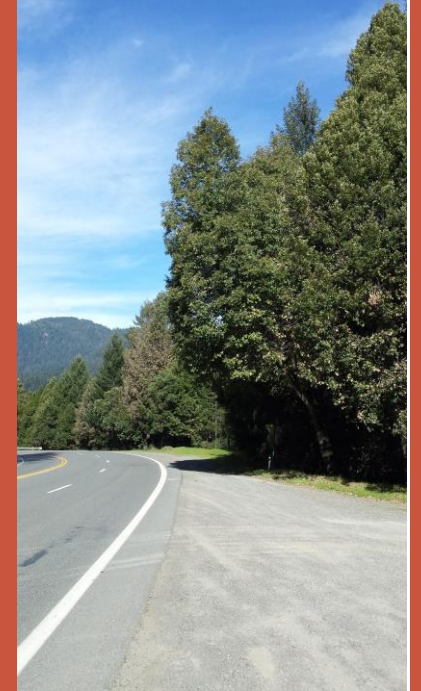


Cornus capitata



6 days after inoculation with
Phytophthora ramorum

Calonectria californiensis



Calonectria californiensis



Calonectria californiensis



Salal

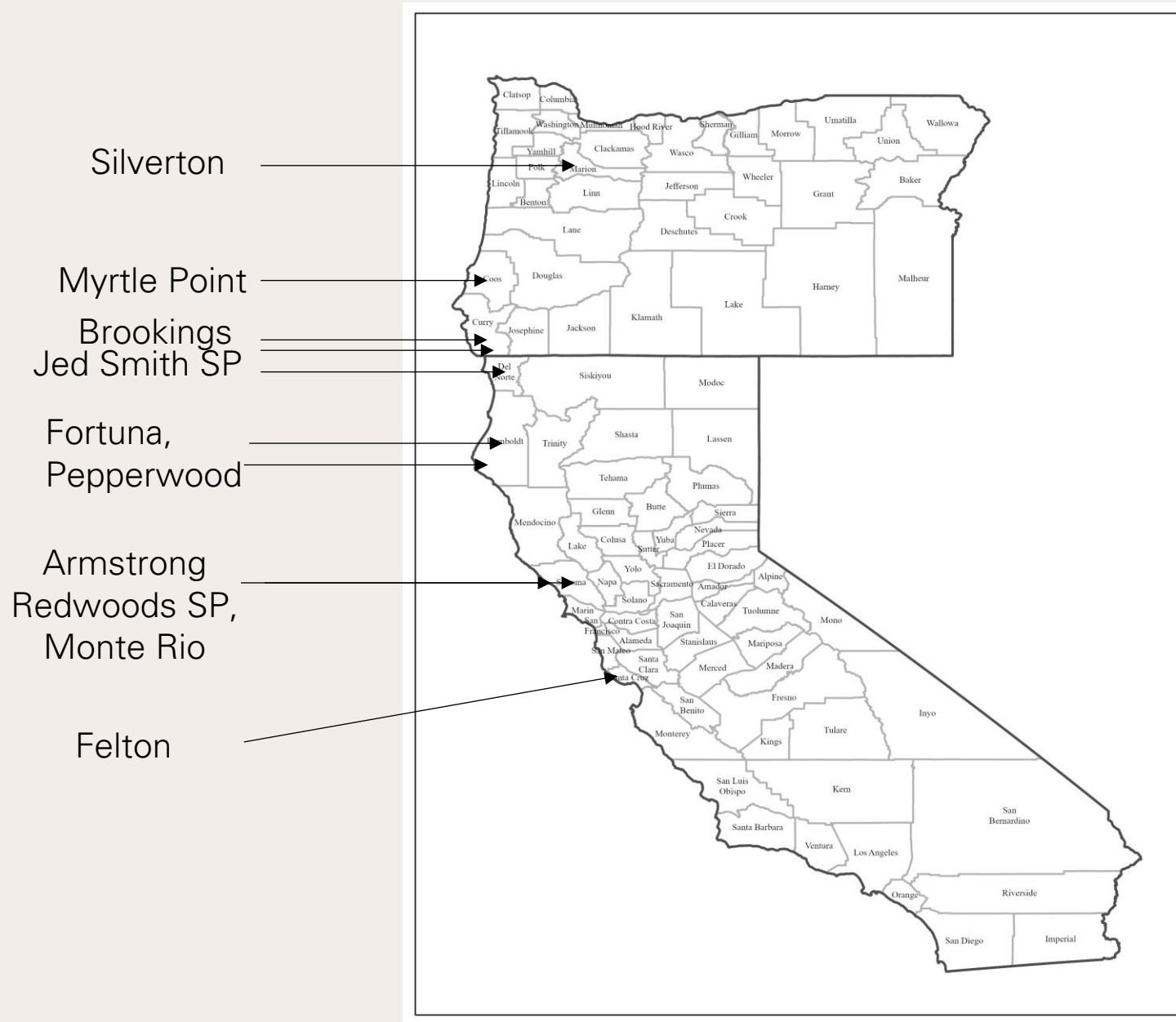


Tan oak



Bay

Calonectria californiensis – Detections



Calonectria californiensis

New Hosts

Inoculations



Gaultheria shallon (salal) inoculated with *Calonectria californiensis*

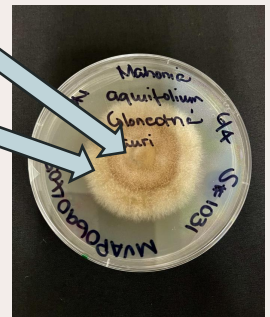
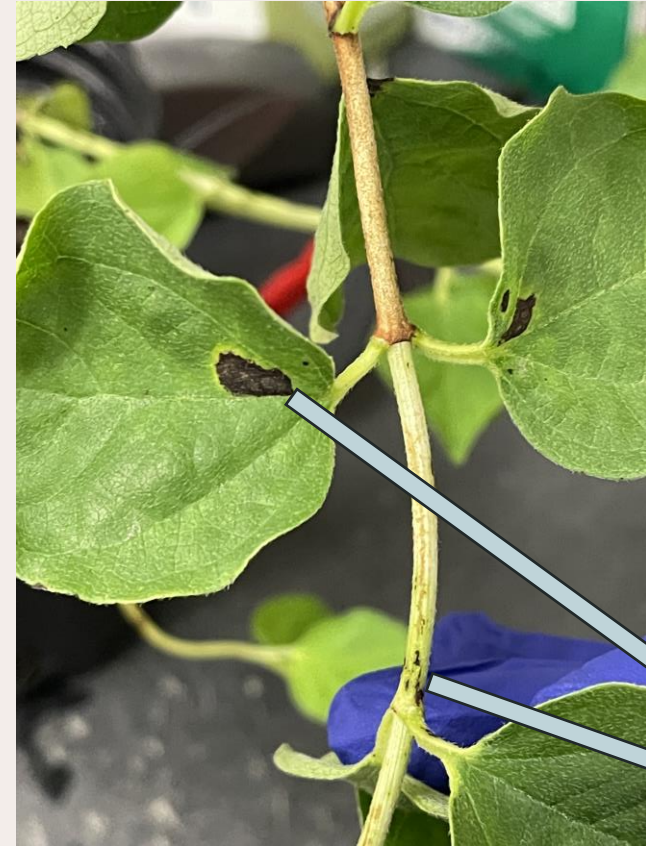


10 days post inoculation

Mahonia aquifolium inoculated with *Calonectria californiensis*



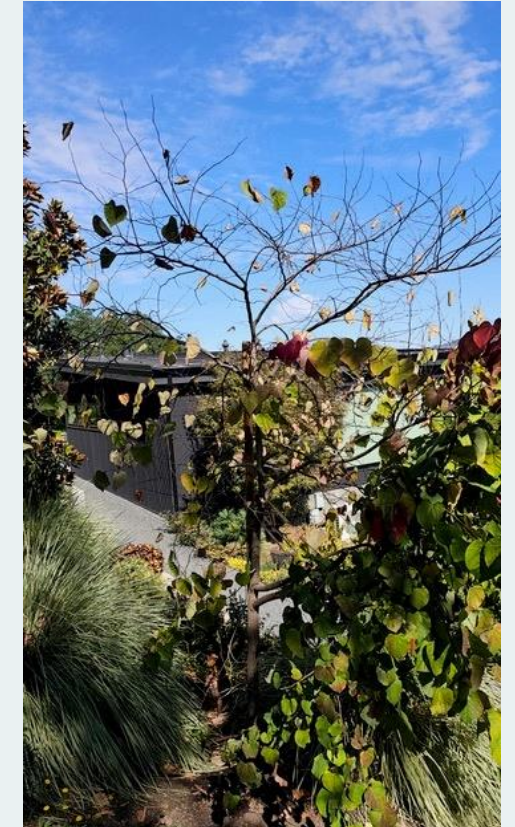
Philadelphus lewisii inoculated with *Calonectria californiensis*



30 days after inoculations

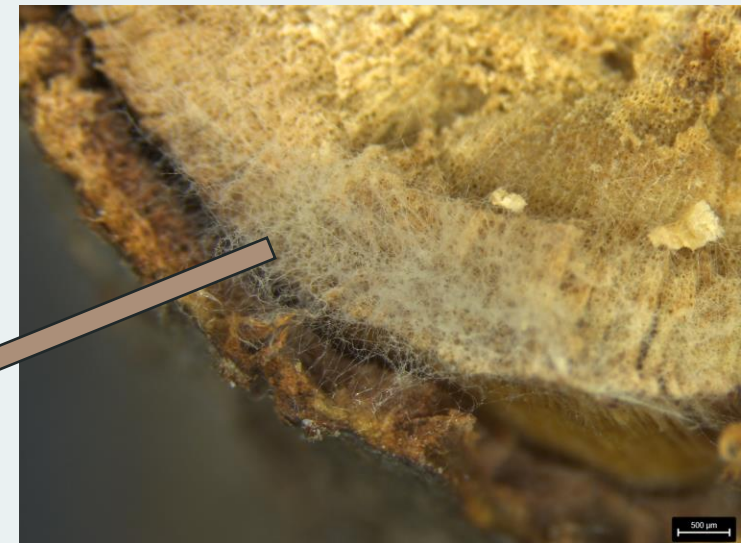
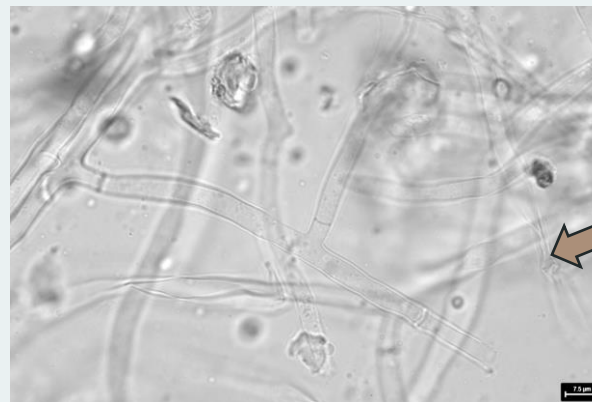


Vascular streak dieback





Vascular streak dieback:
Ceratobasidium cf.
theobromae



Vascular Streak Dieback – *Ceratobasidium theobromae*

Vascular streak dieback: A novel threat to redbud and other woody ornamental production in the United States

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Some Hosts of Vascular Streak Dieback

- *Acer* sp.
- *Amelanchier canadensis*
- *Cornus* sp.
- *Cercis* sp.
- *Magnolia* sp.
- *Hydrangea* sp.
- *Lagerstroemia indica*
- *Liriodendron tulipifera*
- *Prunus persica*



Emma Deutch



Suzanne Latham



Wei Belisle



Marinell Soriano

Thank you!

Chris Lee, CalFire
Mana Ohkura, OSU
Norma Kline, ODA
Gabi Ritokova, ODA
Mollyanne Meyn
Tom Perot