

Blister Rust Screening for Whitebark Pine in BC

Ward Strong, Ph.D.
Kalamalka Forestry Center,
BC FLNRORD



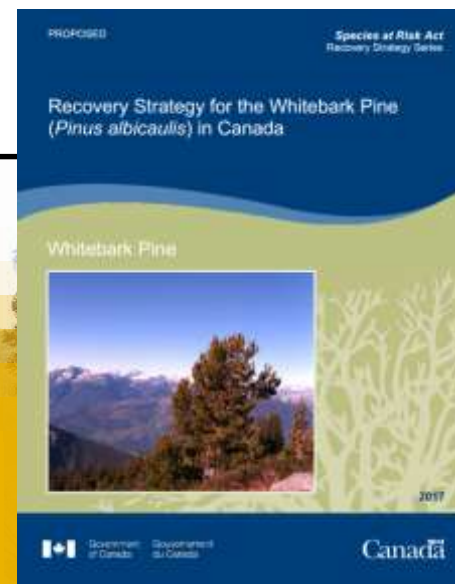
Province of
British Columbia





THREATS

- White Pine Blister Rust
- Climate Change
- Fire and fire suppression
- Mountain Pine Beetle



White Pine Blister Rust

Whitebark Pine

Ribes (currants)



Aeciospores



Uridio-
spores



Basidiospores

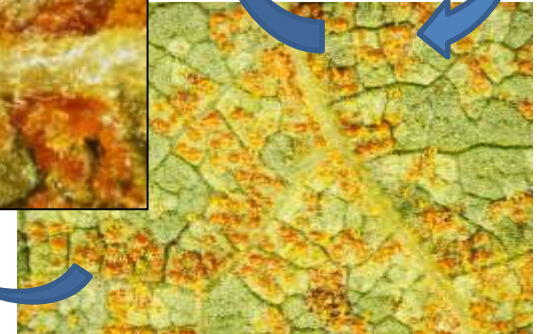




Photo: Michael Carlson



Photo: Michael Murray

Photo: Michael Murray



Photo: Michael Murray





***Ribes* garden at Skimikin Seed Orchards**

near Salmon Arm







**Collecting infected
Ribes leaves**



Loading inoculation chamber

- Ribes above Whitebark seedlings



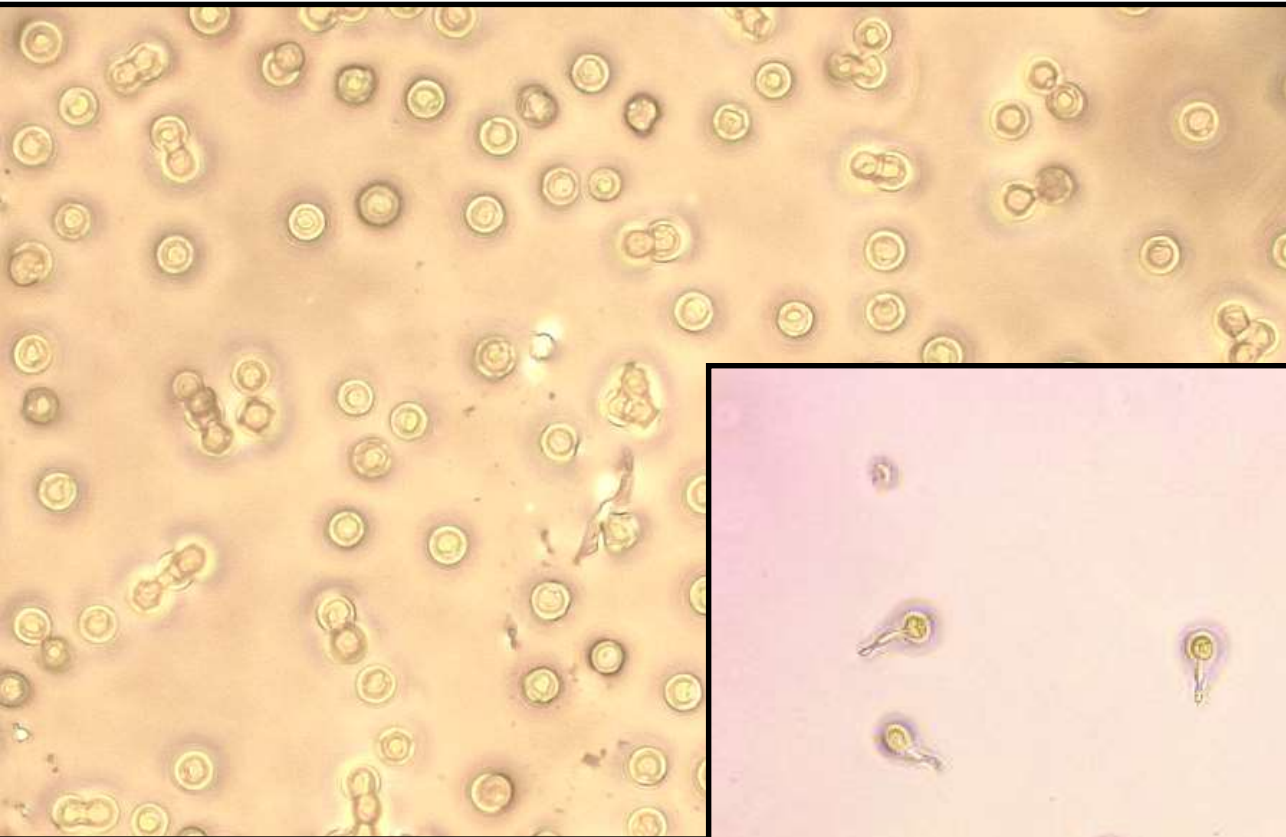
Temp and RH
monitoring



Spore monitoring



Target: 3,000-5,000 basidiospores/cm²



Store in greenhouse until next spring

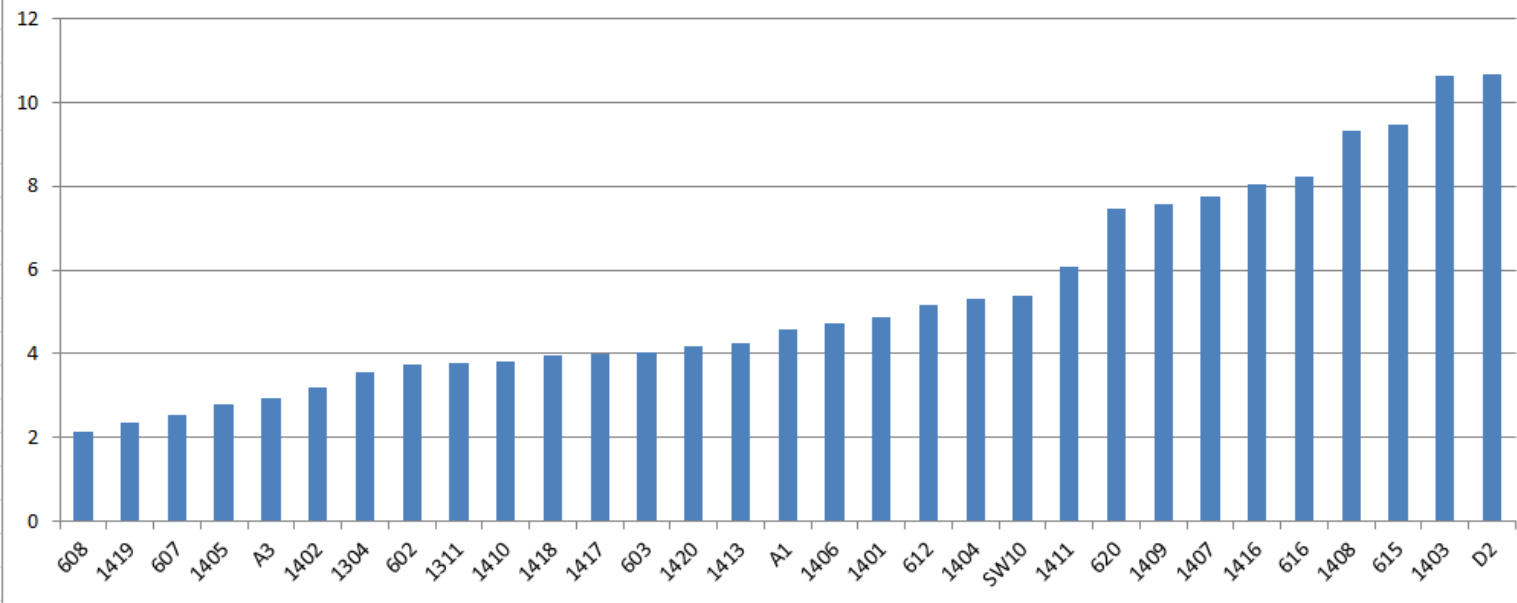




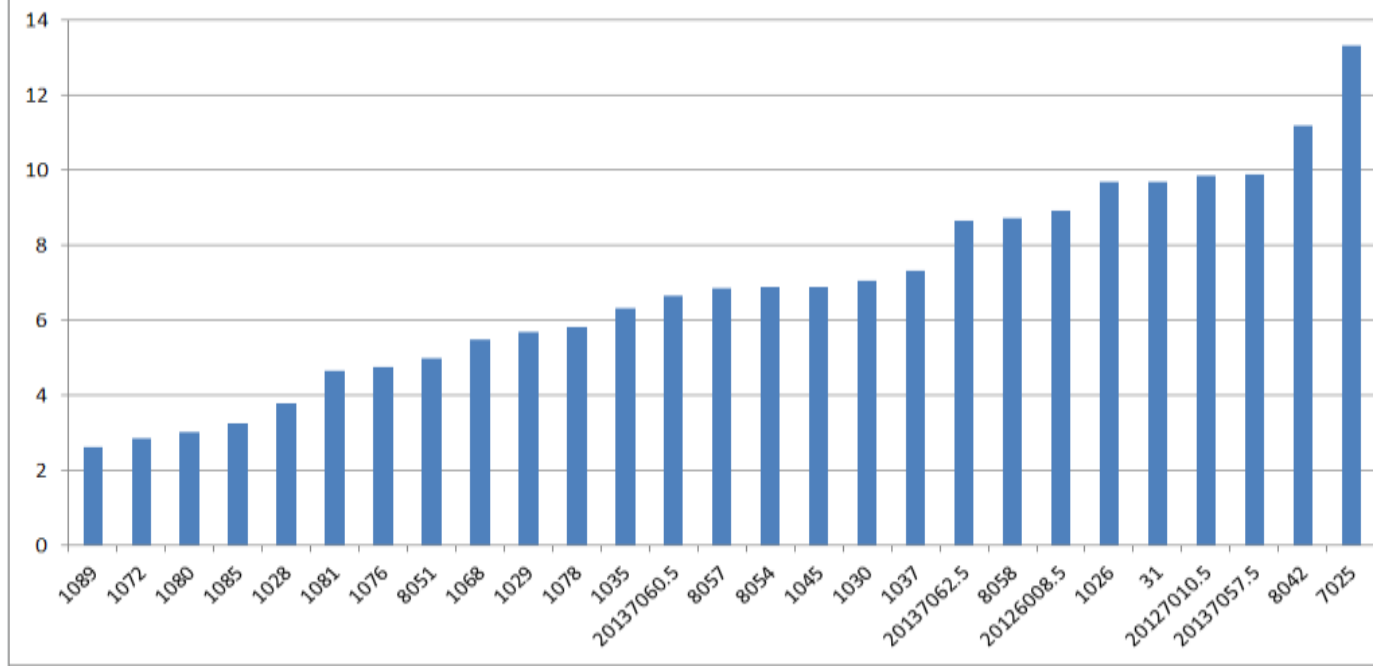
**Needle spots:
the first
symptoms**



2014: Average Needle Spots



2016: Mean Infected Needles

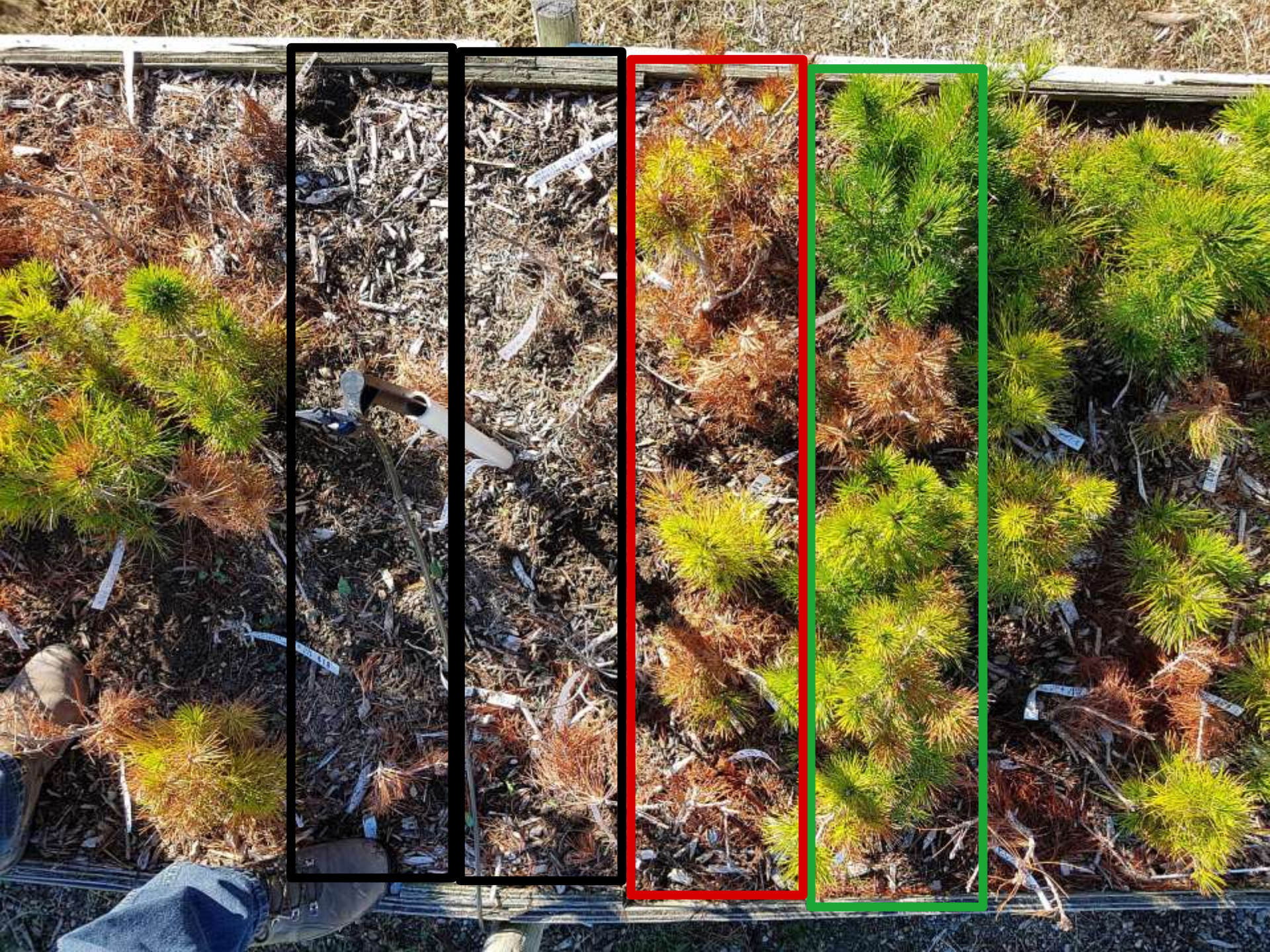


Planting to Outdoor Raised Beds



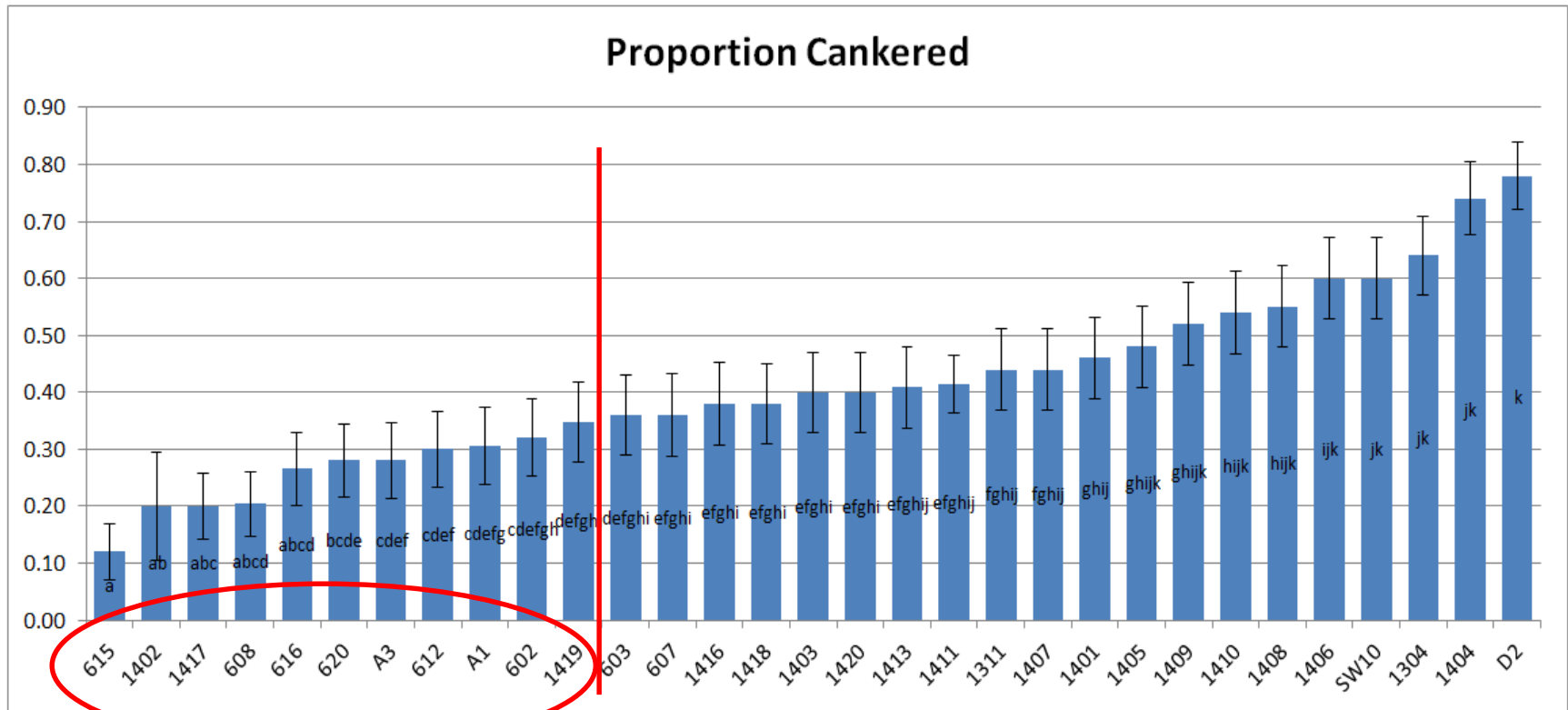
Lesion Counts





Canker results from 2014 Inoculations

All cankers as of fall 2016



Scion Collection February 2017

- Based on Fall 2016 canker results of 2014 inoculations



Photo: Adrian Leslie

2017 Grafting Program



2017 Grafting Program



