

Accelerated measurement of Forest Inventory and Analysis plots and use of FIA plots to monitor *Phytophthora ramorum*

SAMPLING FRAMES:

2001 FHM Evaluation Monitoring:

- Seven counties over 2 years, non-National Forest
- Monterey, Santa Cruz, San Mateo, Santa Clara, Napa, Sonoma, Marin
- Quercus or Lithocarpus in overstory
- FIA plot & mortality info if SOD symptoms

Sampling frame 2002 State and Private Forestry:

- 12 counties, 1 year, includes National Forest
- Monterey, Santa Cruz, San Mateo, Santa Clara, Napa, Solano, Sonoma, Marin, Alameda, Mendocino, Humboldt, Placer
- Quercus or Lithocarpus in overstory and quercus, lithocarpus, toyon, bay, or rhododendron in understory
- All off-panel FIA plots

SOD Sample Methodology:

- Suspected Quercus and Lithocarpus surveyed for bleeding
- Ooze sample is collected and refrigerated
- Leafspots on bay, rhododendron, toyon, big leaf maple and buckeye surveyed
- Symptomatic leaves sampled (20) with entire branch tip and refrigerated
- All samples sent to CDF&A

RESULTS:

2001 FHM Evaluation Monitoring:

- SOD found on 10 plots
- Bay laurel is currently only species with positive results
- Best case estimate: 9% of sampled area shows SOD
- Worst cast estimate: 12%

2002 State and Private Forestry:

- SOD found on 7 plots
- Bay laurel is currently only species with positive results
- Best case estimate: 5% of sampled area shows SOD
- Worst cast estimate: 9%

CONCLUSIONS:

- Over 2200 FIA plots were visited for SOD assessment in California
- Results are preliminary and awaiting further lab analysis
- Future work will correlate stand age, density by species, % BA, % cover of understory hosts, site productivity, distance from roads, disturbance, tree damages and topographic variables with SOD occurrence.

