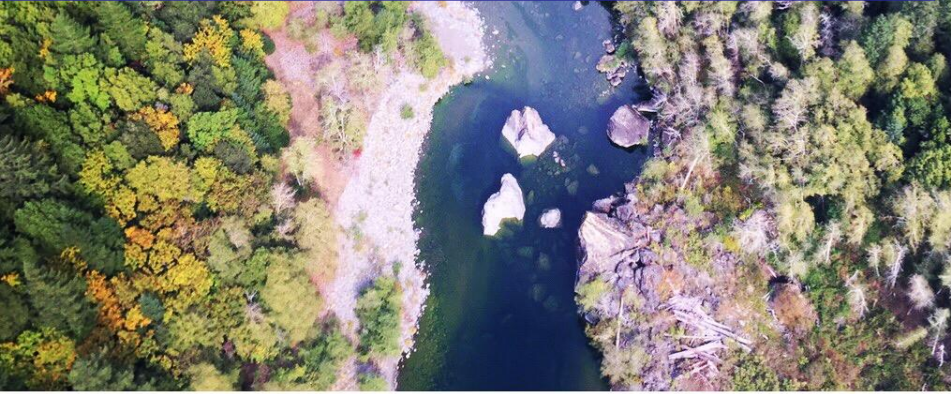


# Sudden Oak Death in Oregon Forests



Oregon Department of Forestry  
Oregon Department of Agriculture  
Oregon State University  
USDA - Forest Service  
USDI - Bureau of Land Management  
Association of Oregon Counties



# SOD in Oregon



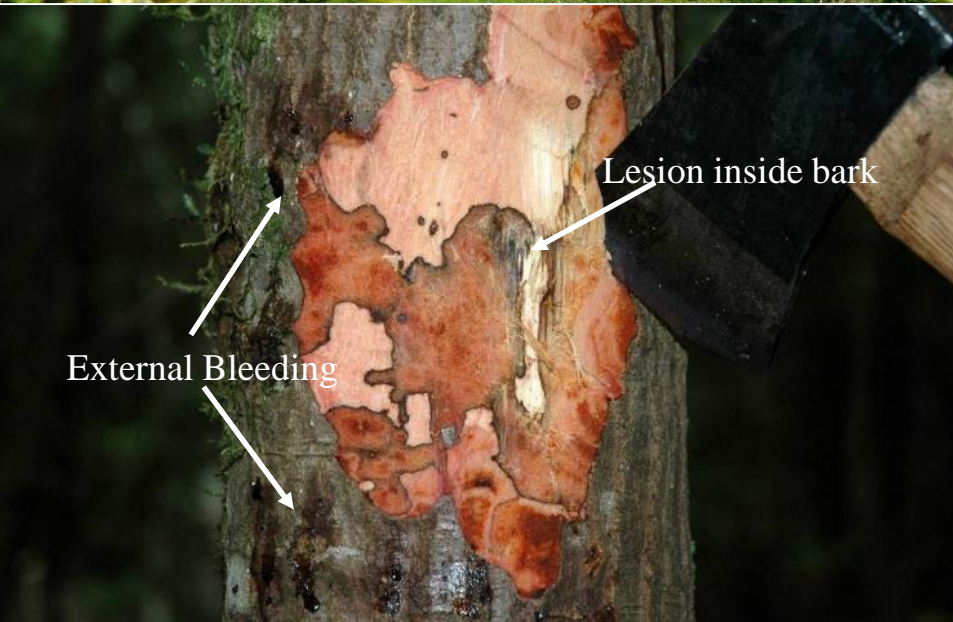
Curry County, 2014. Tanoak mortality

## Disease Biology

- *Phytophthora ramorum* (non-native)
- Tanoak is the key host species
- Many hosts infected (and regulated)
- Requires mild/moist environments for spore production and many pathways for dispersal

## Disease Management

- Treatment area buffers; 50 to 300+ ft, recently as small as 20 ft.
- Cut and burn tanoak, and other host species
- Costs : \$3,000-\$5,000 / acre



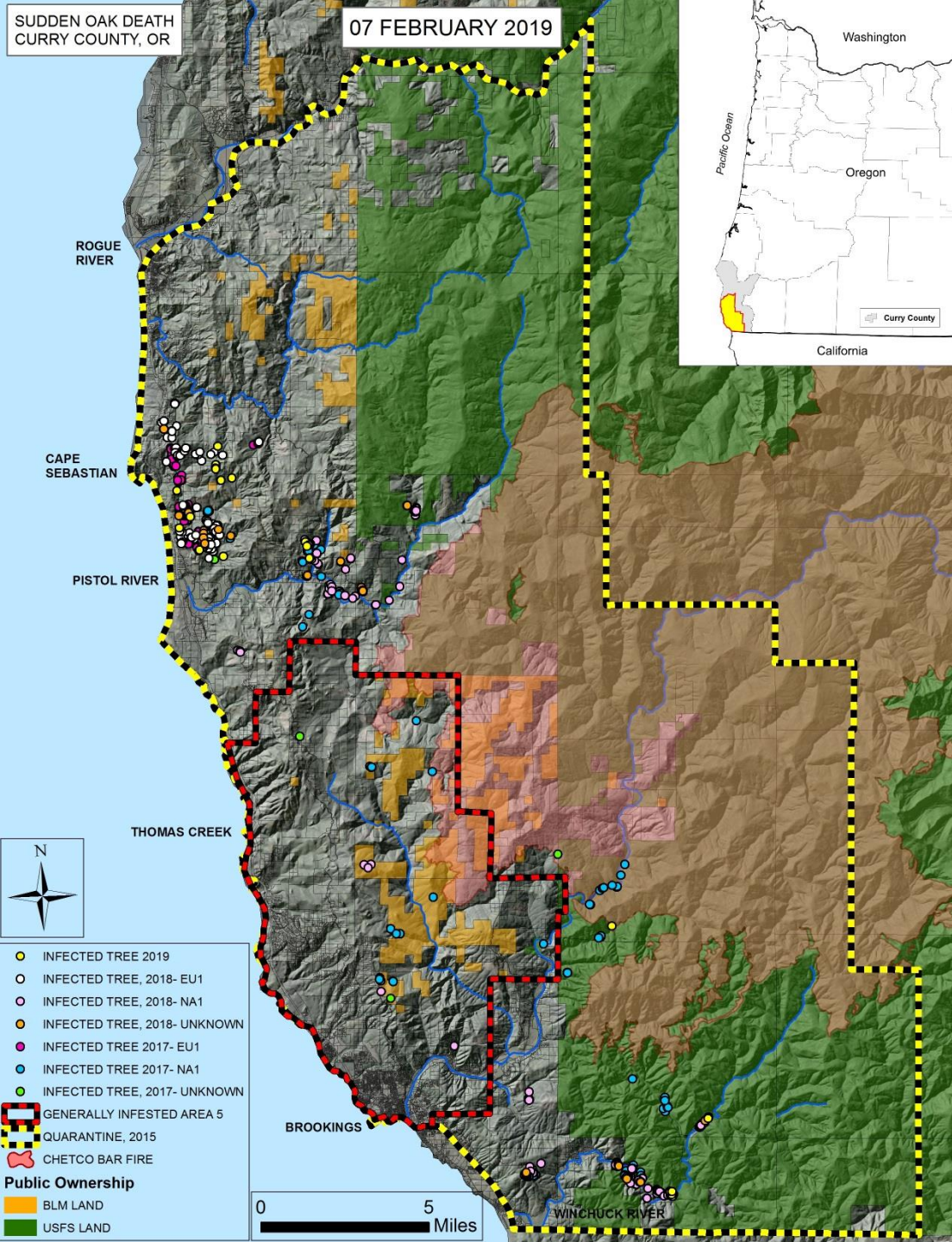
Lesion inside bark

External Bleeding





07 FEBRUARY 2019



# SUDDEN OAK DEATH 2017-2018

2017: 39 new sites outside the GIA; none more distant than previous sites, and none near the new quarantine boundary.

GIA expanded for 5<sup>th</sup> time to 89 sq mi.

EU1 infestations increased into Cape Sebastian area. 270 acres treated

2018: 43 new sites outside the GIA.

EU1 infestations all within the same geographic area, intensification of treatment areas. 203 acres treated

ODF has prioritized all EU1 infestations within the SOD quarantine for treatment



SUDDEN OAK DEATH  
EU1 AREA  
07 FEBRUARY 2019

# EU1 Infestation- 2019

455 acres left to treat from 2018 and 80 acres detected so far in 2019

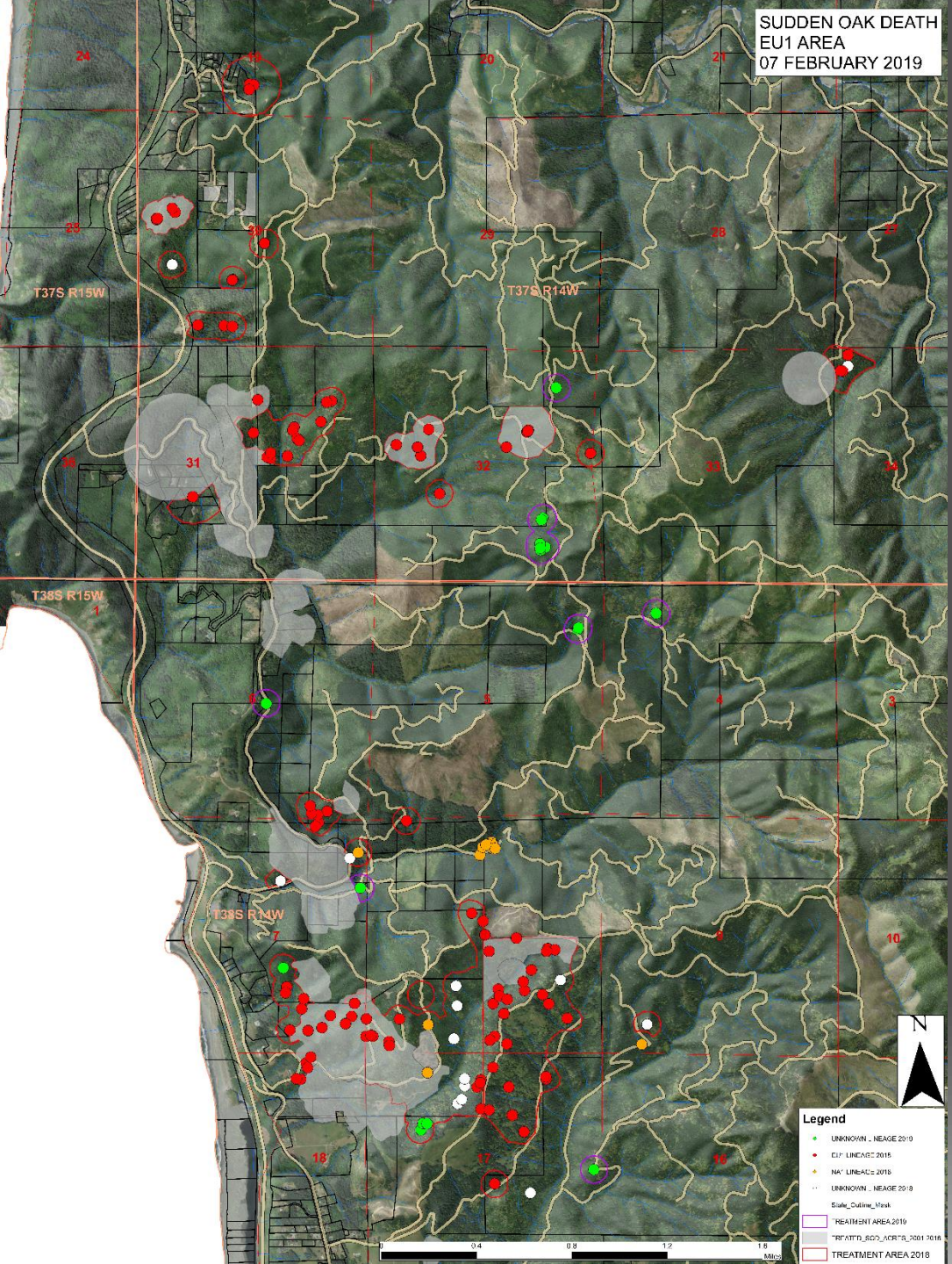
\$1 million allocated for SOD treatments for the remainder of the biennium

## Challenges

Landowner consent has been an issue with multiple EU1 infestations

Gaps in funding- E-Board Funds

Splitting staff time between contract administration and survey/detection



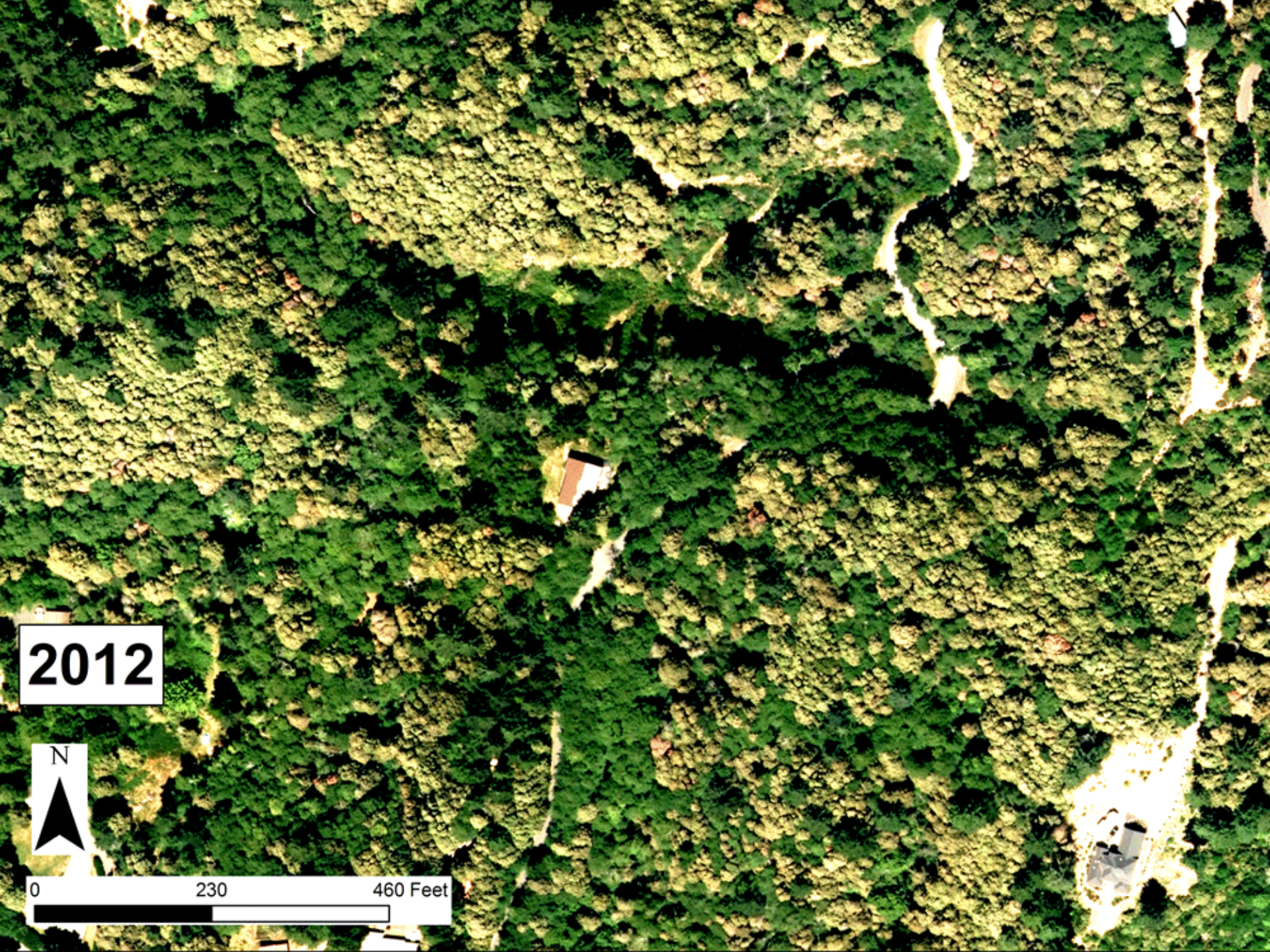




## Current SOD Research

- **Devon Gaydos**- Tangible Landscapes and new disease spread model for Oregon
- **Nik Grünwald**- Population genetic analysis of *Phytophthora ramorum*: Evaluating the threat of forest to nursery spread
- **Jared Leboldus**- Resistance trials on tanoak seedlings
- **Kelsey Søndreli**- Rapid Field Based Detection of the Sudden Oak Death (*P. ramorum*) Lineages
- **Hazel Daniels**- *Phytophthora ramorum* lineage x eradication treatment x wildfire interactions: Implications for management.
- **Norma Kline**- Using citizen science and outreach education to reduce the risk of *Phytophthora ramorum* spread in Oregon forests &
- **Ebba Peterson**- Enhancing mitigation responses to the new threat of an emerging EU1 *Phytophthora ramorum* population in Oregon





2012



0 230 460 Feet