

# LAKE COUNTY NEWS

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## Dry conditions keep sudden oak death in check, yet significant outbreaks continue in some areas

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California's 2018 citizen scientist-based sudden oak death survey, or SOD Blitz, indicates Phytophthora ramorum, the pathogen known to cause SOD, infection is currently less prevalent in many wildland urban interface areas, though some locations are still experiencing significant outbreaks.



Overall, 3.5 percent of the trees (based on those areas sampled during the blitzes) were found to be P. ramorum positive, a threefold drop from 2017.

Yet, in San Mateo, Santa Clara and Santa Cruz counties, infection levels were estimated to be as high as 19 percent, followed by 12.7 percent in the East Bay.

To date, SOD is found in the US in plants in the natural areas of California in Alameda, Contra Costa, Humboldt, Lake, Marin, Mendocino, Monterey, Napa, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, and Trinity Counties. It is also found in Curry County, Oregon.

Oak species known to be susceptible to P. ramorum/SOD include coast live

### UPCOMING CALENDAR

- Oct 23** 10.23.2018 2:30 pm - 3:30 pm  
Tai Chi for Arthritis (/index.php/newcal/35)  
Clearlake Senior Comm (/index.php/componer view=location&id=9)
- Oct 23** 10.23.2018 5:00 pm - 6:00 pm  
Free cardiology seminar (/index.php/newcal/38)
- Oct 24** 10.24.2018 10:00 am - 11:45 am  
Tai Chi and Chi Gong (/index.php/newcal/37)  
Clearlake Senior Comm (/index.php/componer view=location&id=9)
- Oct 24** 10.24.2018 11:00 am - 1:00 pm  
'Coffee and Conversation' (/index.php/newcal/38)  
Upper Lake Senior Cent (/index.php/componer view=location&id=90)
- Oct 24** 10.24.2018 6:00 pm - 8:00 pm  
Rock of Faith Church Bi \_ckp62e1g75ij6e1n64q3

oak, California black oak, Shreve's oak, and canyon live oak. While not a true oak, tanoak is also susceptible to SOD.

The 2018 SOD Blitz surveys were held in Siskiyou, Humboldt, Mendocino, Sonoma, Marin, Napa, San Francisco, Alameda, Contra Costa, San Mateo, Santa Clara, Santa Cruz, Monterey and San Luis Obispo counties.

Notable outbreaks were detected in Alameda (El Cerrito and Oakland urban parks, San Leandro, Orinda, Moraga), Marin (Novato, Day Island, Woodacre, Sleepy Hollow, McNears Beach, China Camp State Park, north San Rafael, Tiburon Peninsula, east and west peak of Mt Tamalpais, Marin City), Mendocino (south of Yorkville), Monterey (Carmel Valley Village, Salmon Creek Trail in southern Big Sur), Napa (east Napa city), San Mateo (Burlingame Hills, west of Emerald Hills and south of Edgewood Rd, Woodside), Santa Clara (Los Altos Hills, Saratoga, Los Gatos, along Santa Cruz Co border), Santa Cruz (along the Santa Clara Co border, Boulder Creek), and Sonoma (near Cloverdale, east and west of Healdsburg, west of Windsor, east of Santa Rosa, west of Petaluma) counties.

Several popular destinations found *P. ramorum* positive during the 2017 Blitz were negative for the pathogen in 2018, including Golden Gate Park and the Presidio of San Francisco, the UC Berkeley campus, and Mount Diablo State Park.

Samples from San Luis Obispo and Siskiyou Counties were also pathogen free as were those from the southern portion of Alameda County.

"It is encouraging that SOD has yet to be found in the forests of California's northern-most counties, San Luis Obispo County, and southern Alameda County. It is also encouraging to see that despite its continued presence in the state for more than 20 years, SOD infection rates drop during drier years. However, in 2018, we identified a number of communities across several counties where significant outbreaks were detected for the first time, and the Salmon Creek find in Monterey County is the southernmost positive WUI tree detection ever. Until the 2018 Blitz, only stream water had been found positive in the Salmon Creek area. We encourage everyone in affected counties to look at the Blitz results online and to attend one of the fall workshops to learn how to protect their oaks from SOD," said Matteo Garbelotto, UC Berkeley Forest Pathology and Mycology Cooperative Extension Specialist, Adjunct Professor, and SOD Blitz founder.

Twenty-five SOD Blitz surveys were held in 2018 in the WUI of 14 coastal California counties from the Oregon border to San Luis Obispo County and included three tribal land surveys.

The 304 volunteers surveyed approximately 13,500 trees and submitted leaf samples from over 2,000 symptomatic trees to the Garbelotto lab for pathogen testing.

SOD Blitzes are a citizen science program through which participants are trained each spring to identify symptomatic tanoak and California bay laurel trees in the WUI and to properly collect samples in the interest of generating an informative map over time of *P. ramorum* disease symptoms.

Samples are tested for the presence of the pathogen at UC Berkeley, and results are posted electronically each fall. Now in its 11th year, the SOD Blitz program is one of the first in the world to join researchers and volunteers in

Oct 25 10.25.2018 10:30 am - 11:30 am

Tai Chi for Arthritis  
(/index.php/newcal/30.  
Lakeport Senior Center  
(/index.php/componer  
view=location&id=8)

Oct 25 10.25.2018 12:30 pm - 1:30 pm

Tai Chi for Arthritis  
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Lucerne Alpine Senior C  
(/index.php/componer  
view=location&id=7)

Oct 25 10.25.2018 2:30 pm - 3:30 pm

Tai Chi for Arthritis  
(/index.php/newcal/35  
Clearlake Senior Comn  
(/index.php/componer  
view=location&id=9)

Oct 25 10.25.2018 5:30 pm - 7:30 pm

'Play It In Pink' fundraise  
(/index.php/newcal/38

Oct 25 10.25.2018 6:00 pm - 7:00 pm

Clearlake City Council |  
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## MINI CALENDAR



a survey for a tree disease.

SOD Blitz surveys were made possible thanks to funding from the US Forest Service State and Private Forestry, Midpeninsula Regional Open Space District, and the PG&E Foundation.

The blitzes were organized by the UC Berkeley Garbelotto lab in collaboration with the National Park Service, Presidio Trust, San Francisco Public Utilities Commission, Midpeninsula Regional Open Space District, Save Mount Diablo, Land Trust of Santa Cruz County, East Bay Regional Park District, Santa Lucia Conservancy, Sonoma State University, UC Santa Cruz Arboretum, Los Padres National Forest, City and County of San Francisco Department of Recreation and Parks, UC Berkeley Botanical Garden, and California Native Plant Society.

For information on the status of *P. ramorum*/SOD tree mortality in California wildlands, see the US Forest Service 2018 Aerial Detection Survey results at <https://www.fs.usda.gov/detail/r5/forest-grasslandhealth/?cid=fseprd592767> (<https://www.fs.usda.gov/detail/r5/forest-grasslandhealth/?cid=fseprd592767>)

For more information on the SOD Blitzes, go to [www.sodblitz.org](http://www.sodblitz.org) (<http://www.sodblitz.org>) or contact Katie Harrell at 510-847-5482 or [kmharrell@ucdavis.edu](mailto:kmharrell@ucdavis.edu) (<mailto:kmharrell@ucdavis.edu>). For more information on sudden oak death and *P. ramorum*, go to the California Oak Mortality Task Force Web site at [www.suddenoakdeath.org](http://www.suddenoakdeath.org) (<http://www.suddenoakdeath.org>) or contact Katie Harrell.

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