

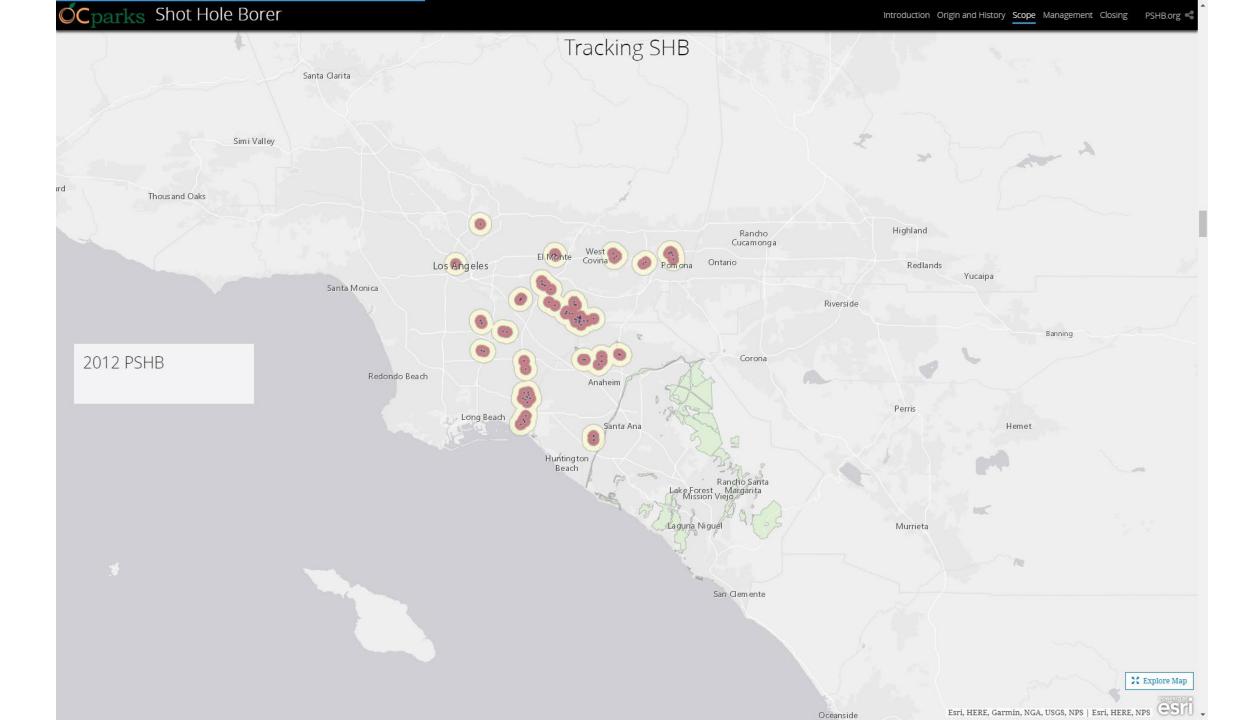
Polyphagous Shot Hole Borer (PSHB) and Kuroshio Shot Hole Borer (KSHB) are invasive beetles that attack native, agricultural and landscape trees. The beetles tunnel into host trees carrying a fungus and spread Fusarium Dieback (FD), a disease known to infect over 137 species, disrupting the transport of water and

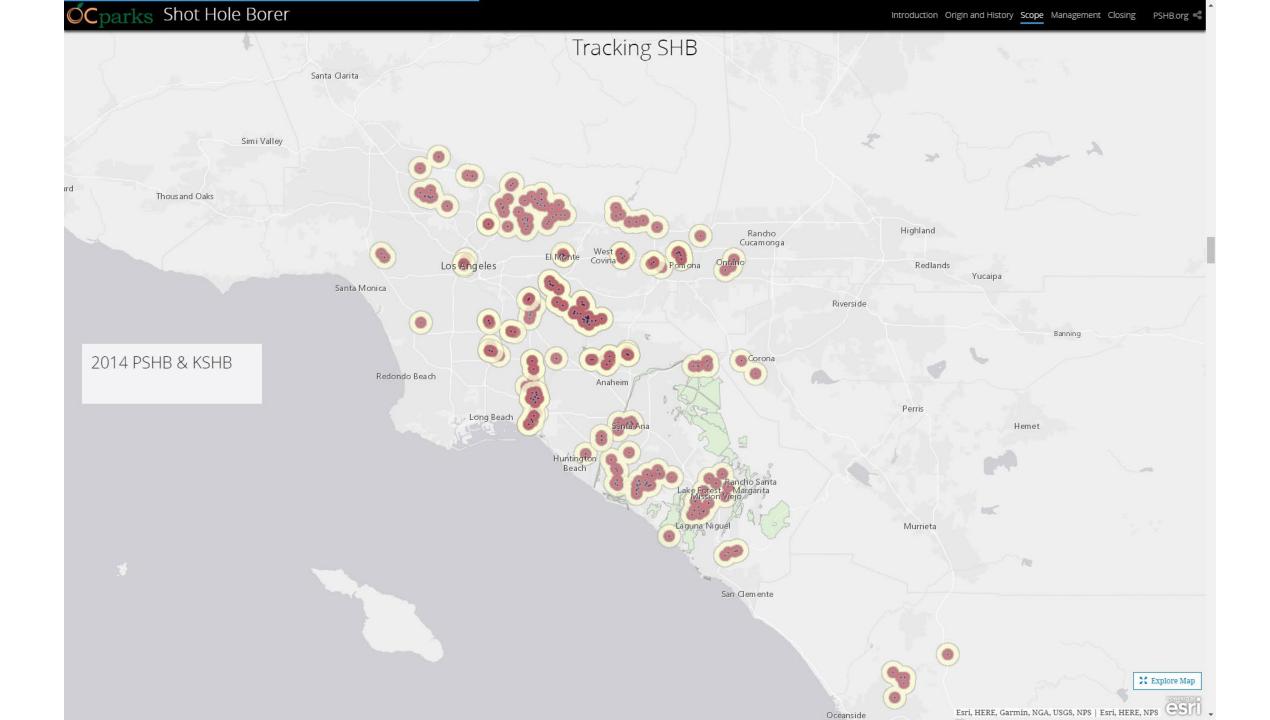
nutrients in the tree — leading to branch dieback, decline and death.

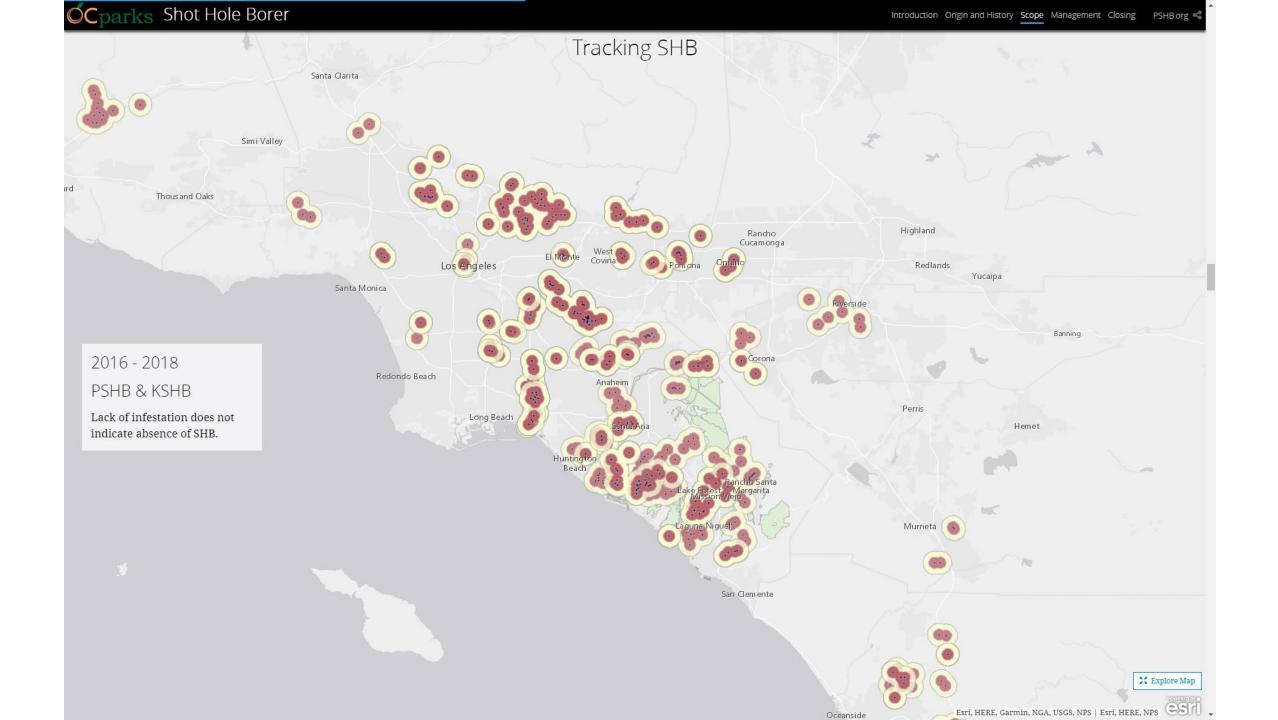


Polyphagous Shot Hole Borer

Origin and History



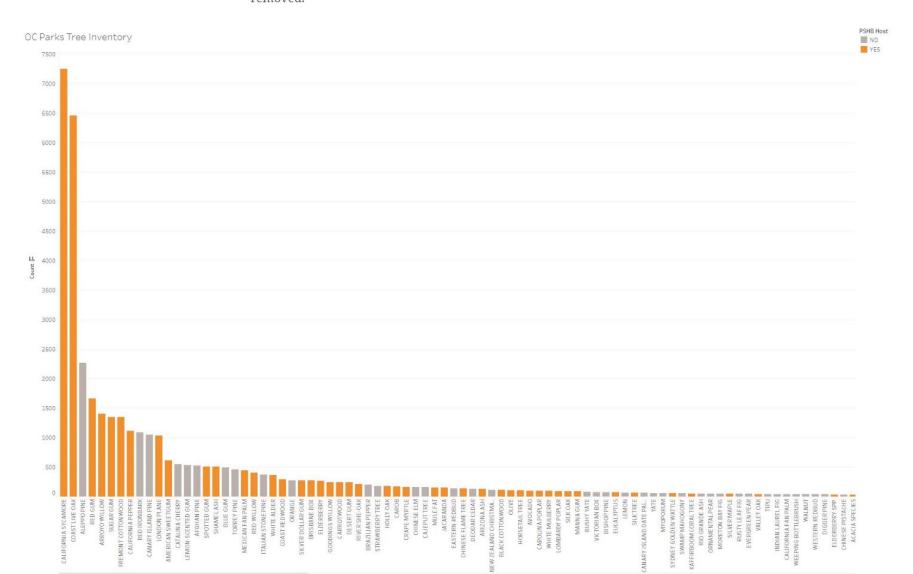




OC Parks Tree Inventory

40,000 inventoried trees valued at \$184 million.

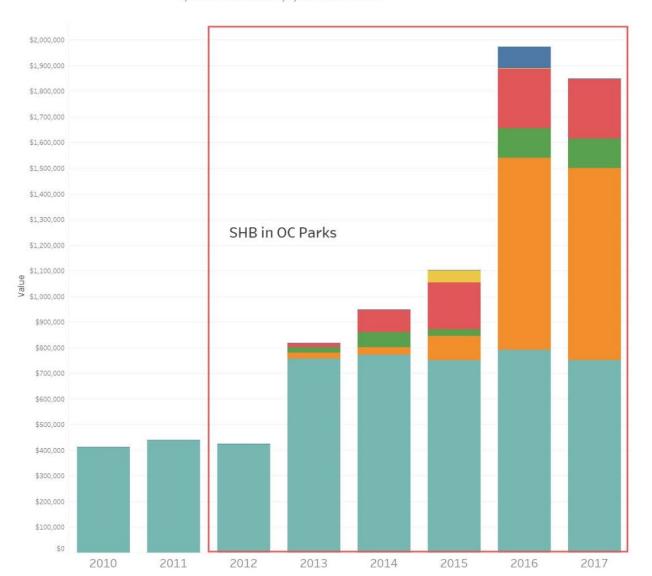
7,250 California Sycamores, valued at over \$32 million. 3,800 infested, 1,410 removed.



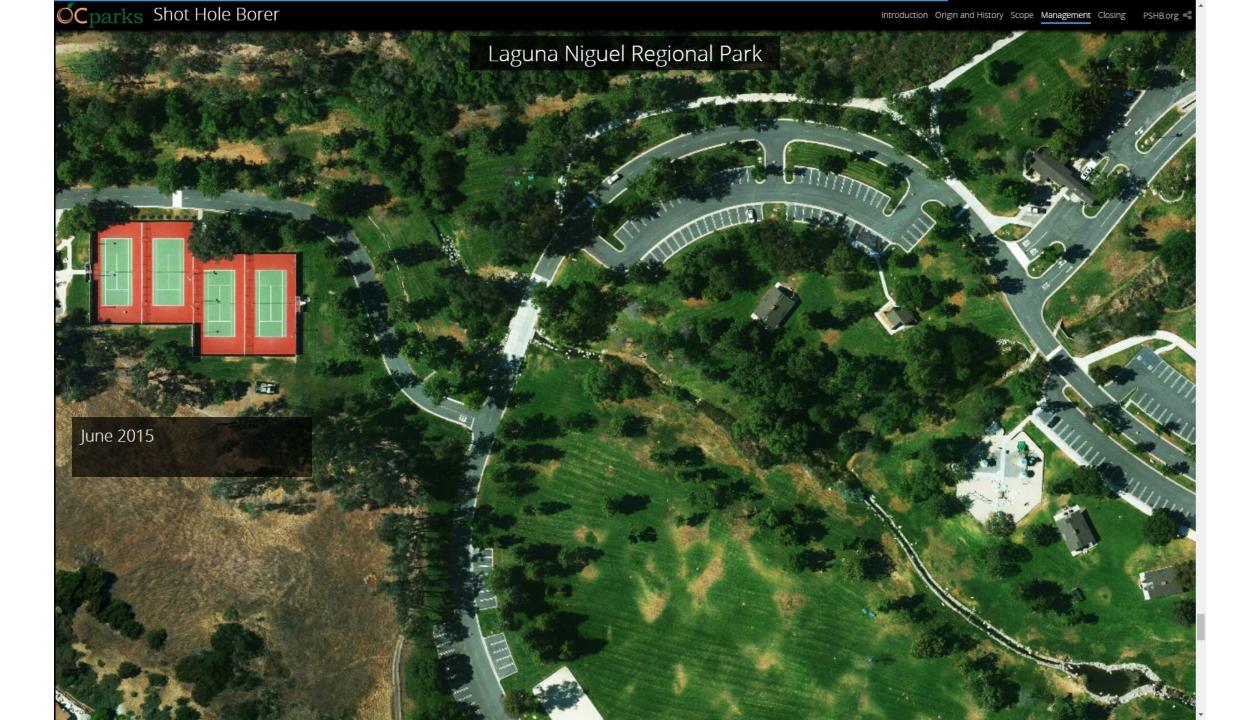
OC Parks Financial Impacts

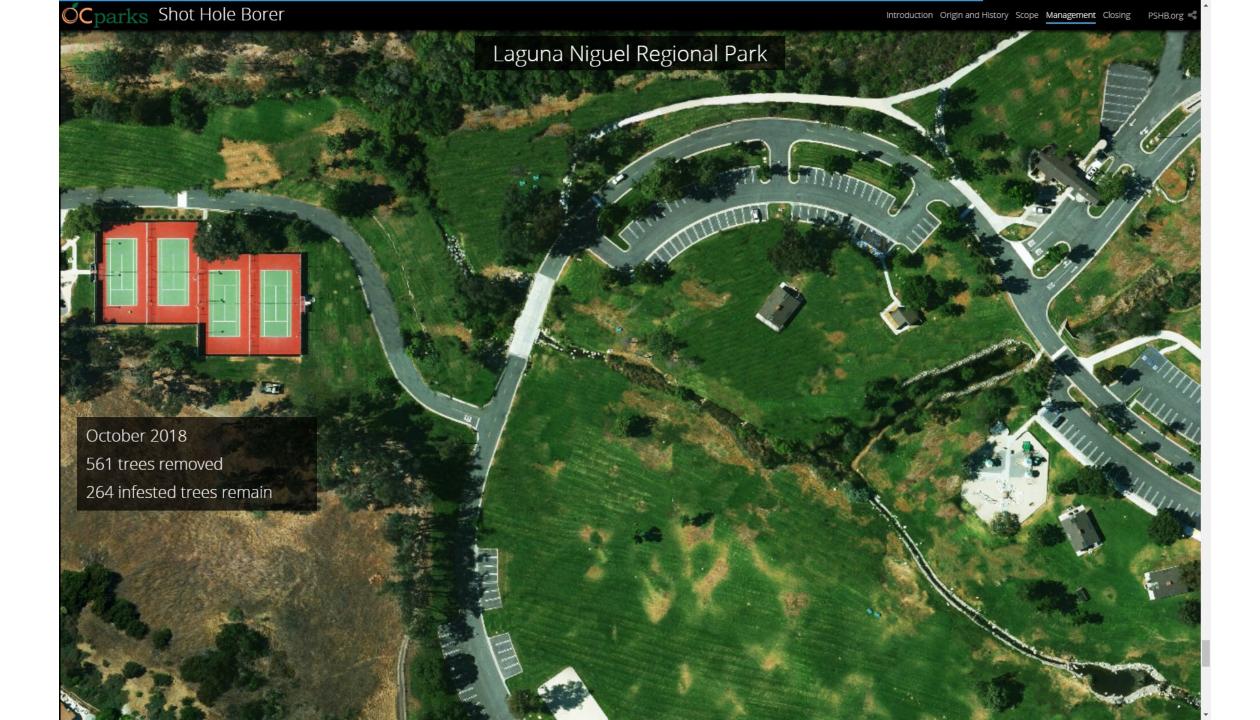
Over \$2.98 million managing SHB from 2013 through 2017.

1,524 trees removed, 2,228 trees treated.

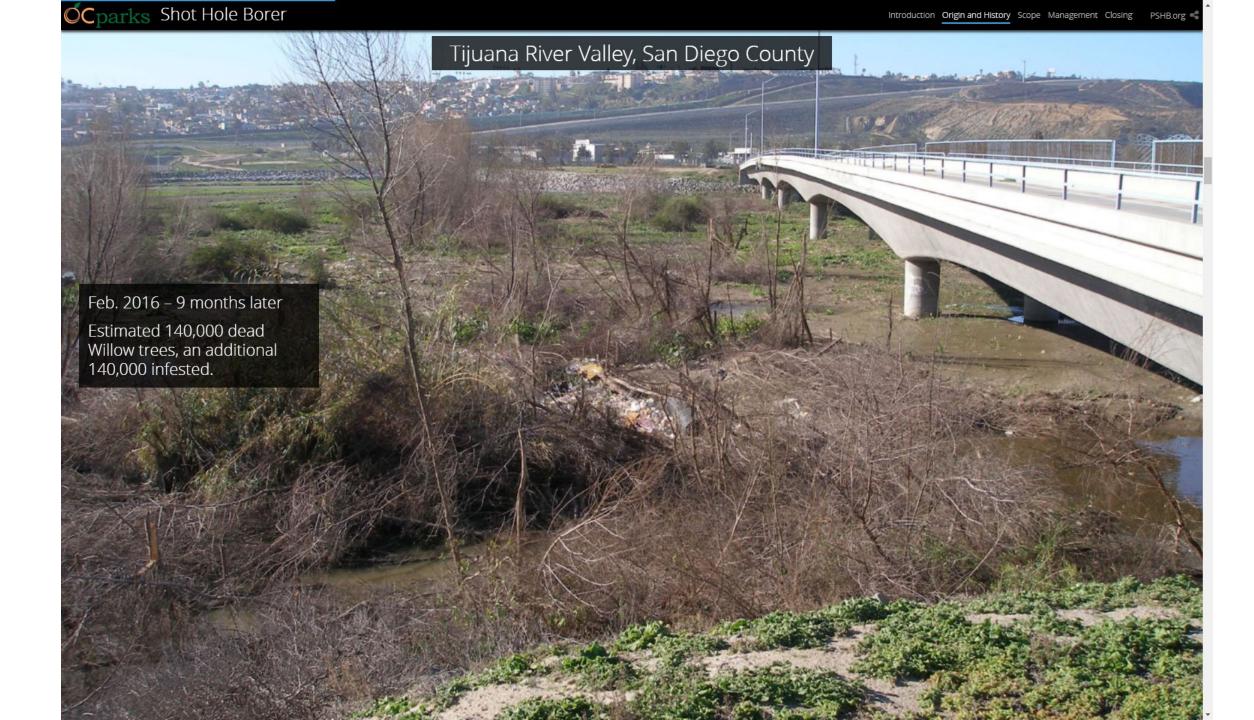




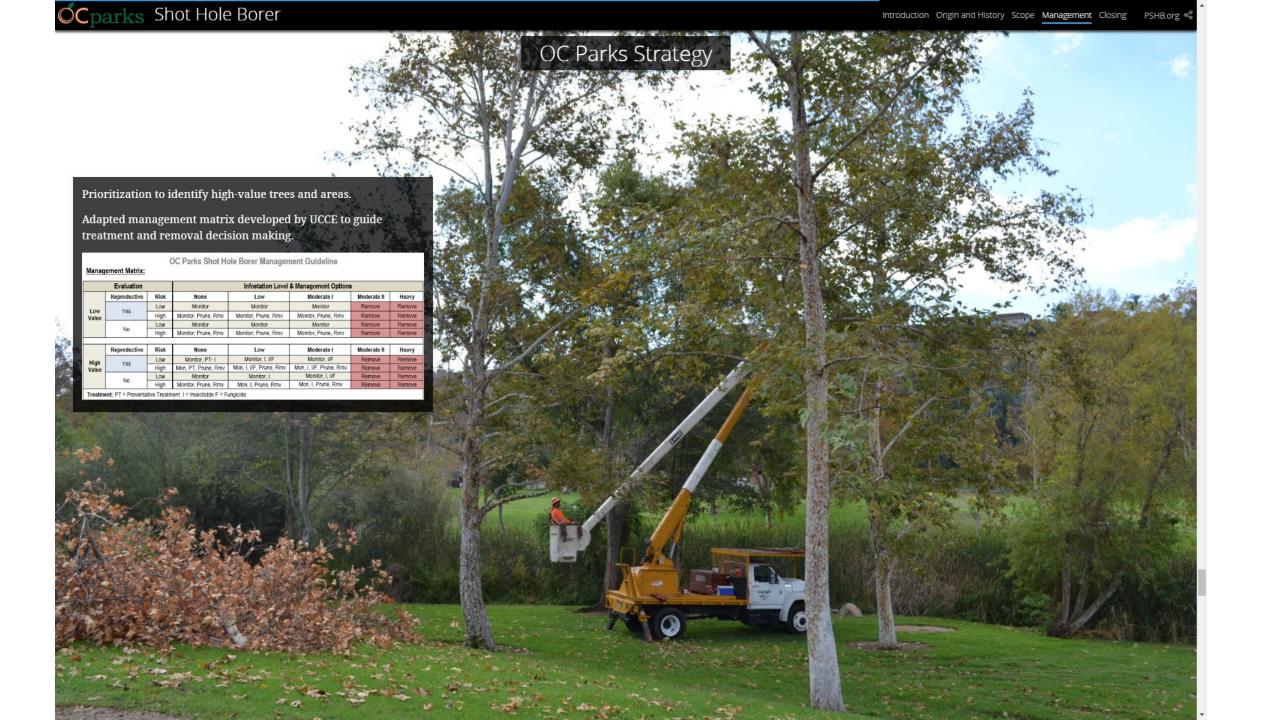












Cparks Shot Hole Borer



Caspers and O'Neill Campgrounds

OC Parks Firewood Policy: Buy It Where You Burn It

There are known pests and pathogens that can be moved from place to place in firewood. The Goldspotted Oak Borer (GSOB) and Polyphagous Shot Hole Borer (PSHB) are invasive pests contributing to on-going tree mortality in California. Campgrounds around the state are taking steps to limit the movement of firewood in an effort to slow the spread of tree pests. We all have a responsibility to conserve our trees, so OC Parks has implemented a firewood policy.

Firewood from any outside source must be commercially produced, kiln dried and heat treated, bundled, labeled and certified as "Pest Free" or "Safe to Move." Shipping pallets, scrap lumber, wood purchased from tree trimming services, etc. are prohibited. Gathering of dead wood or other plant material within the park is not permitted. Firewood bundles are available for purchase at the park office for a very reasonable price.

Thank you for doing your part to protect the campsites you love and conserve our natural resources. To find out more about the pests and firewood, please go to:

- California Firewood Task Force: www.firewood.ca.gov
- Don't Move Firewood. Org: www.dontmovefirewood.org
- Goldspotted Oak Borer (GSOB): ucanr.edu/sites/gsobinfo/
- Polyphagous Shot Hole Borer (PSHB): ucanr.edu/sites/pshb/





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Current expectation is that the infestation will continue to spread. Long-term control is years away.

US Forest Service urban area estimates (Inland Empire, Coastal Southern California, Southwest Desert): 38% of 70.8 million trees at risk; cost for removing and replacing \$36.2 billion; loss in annual ecosystem services \$1.4 billion.

It is important for Southern California agencies to participate in regional working groups to obtain state or federal funding.

Funding is required to track infestation and fund research for long-term solutions such as biological control. Recently passed California Senate Bills AB2054, effective July 1, 2018, will provide \$5 million and AB2470, effective January 1, 2019, will provide \$2 million in funding.

https://oc-parks-gis.maps.arcgis.com

