

Goldspotted Oak Borer and Oak Mortality

Quarterly Situation Report

October 1 through December 31, 2016

Invasive Tree Pests Research Updates Symposium
Hosted by the Southern California Committee - California Forest Pest Council
November 30, 2016 at UC Riverside

Megan Lulow, Ph.D.
Administrative Director for UCI-NATURE
Secretary - SoCal Committee of CFPC

This symposium was very well attended by a diverse group of agency personnel, private industry tree-care professionals and researchers from all over Southern California. Thanks to outreach efforts, some agencies not previously included in the response to Invasive tree pests attended the meeting and greatly added to the value of our discussions and the opportunity for networking.



Synopsis of presentations and discussions:

1. Akif Eskalen, Plant Pathologist, CE Specialist
Department of Plant Pathology
and Microbiology, UC Riverside
 - Management: *resprouting but also reinfestation- 2 types re-sprout: aboveground (don't look as good), and below ground (look good, but get reinfested)*
 - Pesticide trials: repeat chemical trials on low and moderate infested in addition to heavy- emamectin benzoate best
 - Evaluation
 - *Concern secondary fungi spread by beetle kills the tree much faster than SHB*
2. Richard Stouthamer, Professor of Entomology, UC Riverside
 - Bio control continue studies; species origin and distribution
 - Traps- deterrents
3. Andrea Hefty, Forest Entomologist, US Forest Service, Forest Health Protection,
Southern CA Shared Service Area; Tom Scott, Associate Director Cooperative
Extension
 - GSOB and interaction drought- worse because impact xylem
 - debark wood and sell, economical
 - papers by Coleman on different insecticides
 - decision tool how many years until tree dead?
4. Gail Sevrens, Environmental Program Manager California Department of Fish and
Wildlife, South Coast Region (5); San Diego, Orange, LA, Ventura, and Santa Barbara
Counties

5. David A. Zoutendyk, Division Chief, U.S. Fish and Wildlife Service
 - Very concerned with impacts to habitat for T&E species and how interact with mitigations
 - Reaching out to ACOE, NRCS
 - Work with SANDAG on strategic plan for Southern California, temp hirer coordinator, invasive species coordinator, internal grants, overarching agency for vision
 - Permitting-tree removal, management-trying to be proactive, streamline process
 - Looking for guidance given scale of pest-USDA Emergency response manual-Incident command
6. John Kabashima, Retired, UC Cooperative Extension, Environment Horticulture Advisor
 - IPM- tree and stump removal; pruning infested branches; treat wound bifenthrin; chipping posting
 - Tree removal (too expensive for some homeowners)
 - Deterrents-patents wait for and will be good-time treatment with flight
 - Systemic treatment and trunk injections- preventative-Mauget, Arborjet
 - Department of Pesticide Regulation reviewing labels, may accept trunk injection if not in standing water, but still costly and need strategic plan for treatment.
7. Tim Paine, Professor of Entomology, UC Riverside
 - Very wide T range-into Tehama and Shasta Counties
 - Cultural control- solarization in summer 2 wks
 - Bifenthrin + emamectin benzoate + fungicide (Tourney)

Panel Discussion:

- Access to/sharing of informational slides for outreach
- Q's about what people can do in short term for natural areas management- inoculum available for transplants? No.
- Need to bring larger organizing structure to addressing problem regionally: how bring USDA and CDFA into dialog; maybe RCD's could help.
- Additional research on IPM for more species on host list in natural areas- developing a proposal for research needs so can go after funding
- How appropriately use host list in reforestation?

San Diego County Report

Lyons Valley Community Meeting - October 01, 2016, 12:00 PM ~~to~~ 4:00 PM
 Report by Dr. Tom Scott, UCCE

Saturday Oct. 1 we held a GSOB Workshop for landowners at Lyons Valley Trading Post (Lyons Valley Rd). The expected audience was 15 to 20, but we ended up with over 100 attendees. The meeting was organized by Peter Harper, Lyons Valley Resident, to help Valley residents organize a community response to GSOB-associated oak mortality and decline - but attendees drove in from as far away as Ramona and Campo. Bret Hutchinson, local arborist, and I gave talks on GSOB management and natural history and stayed for about 2 hours after the talks to answer questions.

Orange County Report

Report by Nathan Gregory – Irvine Ranch Conservancy

The Irvine Ranch Conservancy (IRC) performed post-flight season gold-spotted oak borer surveys in Weir Canyon from October through December. A total of 791 oak trees were surveyed. During that time, 32 previously uninfested trees were identified. In collaboration with Orange County Park staff and the Orange County Fire Authority, the Conservancy identified 24 trees that will be removed in the next quarter.

Riverside County Report

Gregg Bratcher & Zsolt Katay, Cal Fire - Riverside Unit

| 2016 4th Quarter RRU GSOB Infested Tree Chart | | | | | | | |
|---|------------------------|-------------------------|--------------------------|--------------------------------|------------|--|----------------------|
| <i>inspections</i> | <i>Inspection date</i> | <i>Location address</i> | <i>GSOB Not Detected</i> | <i>GSOB Positive Detection</i> | <i>DBH</i> | <i>Inspection Comments</i> | <i>Trees Removed</i> |
| 1 | 10/5/2016 | Pine Cove | | 1 | 30 | Completely dead. No leaves left on. | NO |
| 2 | 10/5/2016 | Idyllwild | | 1 | 28 | Removed by Edison. Completely dead tree. | YES |
| 3 | 10/7/2016 | Idyllwild | | 1 | 24 | Dying tree with many exis holes. | NO |
| 4 | 10/7/2016 | Idyllwild | | 1 | 28 | Completely dead. No leaves left on. | NO |
| 5 | 10/7/2016 | Idyllwild | 2 | | 44,36 | Large diameter trees with black stain. | NO |
| 6 | 10/25/2016 | Idyllwild | | 1 | 34 | Completely dead with brown leaves. | NO |
| 7 | 10/27/2016 | Idyllwild | | 2 | 30,32 | Completely dead. No leaves left on. | NO |
| 8 | 10/27/2016 | Idyllwild | | 1 | 14 | Completely dead. No leaves left on. | NO |
| 9 | 10/27/2016 | Idyllwild | | 1 | 27 | Completely dead. No leaves left on. | NO |
| 9 | TOTAL | | 2 | 9 | | | 1 |

Summary: A total of 9 inspections occurred on 11 oak trees in the last quarter. 9 of the 11 trees inspected were positive for GSOB. Only one of the 9 GSOB trees has been removed. Other removals will occur in the next quarter.

Los Angeles County Report

LA County Fire foresters, personnel from the Angeles National Forest, and the Green Valley GSOB Volunteer group have continued GSOB survey and detection work along with Education and Outreach efforts to the community. Demonstration projects using innovative infested-bark treatment options were concluded (for this year) and write-ups are forthcoming.

Outreach and Education Events

Collaborative Tools Calendar for the Quarter

| | | |
|------------|--|---|
| 12/22/2016 | Operation Snapshot Customs Border Protection | San Ysidro Passenger Car Port of Entry |
| 11/30/2016 | SoCal Forest Pest Council Symposium | UC Riverside |
| 11/28/2016 | Oak Tree Preservation Forum | Rincon Tribal Hall, 1 West Tribal Road, Valley Center, CA 92082 |
| 10/1/2016 | Lyons Valley Community Meeting | Lyons Valley, San Diego County |

Goldspotted Oak Borer Program Activity Quarter 2 Report – FY 16/17 (October-December 2016)

Jan Gonzales, UC Cooperative Extension-San Diego

- Assisted with the coordination of the Oak Tree Preservation Forum for local area tribal communities, hosted by the Rincon Band of Luiseño Indians as part of Native American Heritage Month. GSOB information was shared by Andrea Hefty (USFS-FHP) and Tom Scott (UCR); other presenters included Lendal Miller (BIA), Chris McDonald (UCCE), Eric Just (CAL FIRE), Chris Viveros (Rincon), Jeremy Zagarella (Pauma), and Jan Gonzales (UCCE-SD), November 28, 2016, Valley Center, CA.
- Organized Southern California Green Waste-Wood Biomass Management Symposium to be held February 9, 2017 in San Diego. Website and Registration: http://ucanr.edu/sites/SoCA_GWWood_Mgmt_Symposium/
- Participated in the Southern California Forest Pest Committee of the CFPC Invasive Pest Symposium, November 30, 2016, UC Riverside.

- Participated in the UC ANR Endemic and Invasive Pests Strategic Initiative Conference, November 16, 2016, UC Davis.
- Participated in the California Forest Pest Council Conference, November 16, 2016, UC Davis.
- Assisted County of San Diego AWM develop protocols for handling potentially infested wood debris for San Diego County's Operational Draft Debris Plan being developed by the County Office of Emergency Services.
- Participated in working group meetings and conference calls:
 - Emerging Tree Pests Education and Outreach Committee (10/12, 11/2, 12/7)
 - California Firewood Taskforce (11/18)
- Coordinated GSOB/PSHB tabletop display use with collaborators for outreach at the:
 - San Diego North County Fire Protection District Open House (Fallbrook, 10/15/16),
 - California RCD Annual Conference (Ontario, 11/16-19/16),
 - UC ANR Endemic and Invasive Pests Strategic Initiative Conference (11/16/16),
 - Oak Tree Preservation Forum (Valley Center, 11/28/16).
- Responded to 4 phone calls and/or email public inquiries about GSOB.
- Assisted with managing invasive pests Collaborative Tools groups: new members, announcements and calendar postings.
- Managed the www.GSOB.org website; updated content and links.
- Distributed GSOB handout materials:
 - 500 GSOB trifold brochures (450-English; 50-Spanish)
 - 100 GSOB Forest Insect and Disease Leaflet (USFS IPM)
 - 100 GSOB ID cards (0-Professional; 100-General Public)
 - 250 GSOB and Firewood Management pamphlets
 - 50 *Buy It Where You Burn It* firewood awareness postcards

Please contact Kevin Turner or Jan Gonzales if you see any omissions or corrections.