

Goldspotted Oak Borer and Oak Mortality
Quarterly Situation Report
April 1 through June 30, 2016

In Memory of Roger Covalt



Roger, our friend and partner in GSOB, passed away unexpectedly in June. We'll greatly miss his sense of humor and valuable contributions to the GSOB Outreach and Education Committee. Roger worked for the County of San Diego Department of Parks and Recreation and has been part of our GSOB group since the beginning.

“GSOB” Education and Outreach Committee expands to “Emerging Tree Pests” –Anabele Cornejo

On April 20th, we had a face to face meeting in Fallbrook that was well attended and had participants from many agencies and several counties.

Primary discussion: Tasks and goals for integrating PSHB and other emerging pests/diseases
(Discussion facilitator: Kevin Turner, UC Riverside)

Specific projects integrating all emerging pests/diseases issues were not defined but committee suggests they will develop organically as needed and opportunities arise.

There are multiple coordinating, joint-agency and stakeholder workgroups addressing tree pests/diseases. We do not want to take over what other groups are doing, but would like to provide an established forum for coordinating on all southern California tree pest/disease issues. This committee proposes we change our group name from GSOB Education and Outreach to Emerging Tree Pests/Diseases Education and Outreach to help facilitate regional education and outreach coordination and communications. Anyone engaged in specific pests/disease education and outreach would be invited to join this re-named committee and participate in the bi-weekly conference calls for project development discussions and updates on outreach activities.

This committee suggests the GSOB Steering Committee of San Diego transition to an Emerging Tree Pests Workgroup for San Diego. There was also a suggestion to communicate more **with agencies and legislatures about pesticide use.**

Based on group consensus at our Face to Face meeting, the GSOB Education and Outreach Committee will be changing its name to the Emerging Tree Pests Education and Outreach, to better reflect the changing information and resource needs of the agencies and groups.

The name change also reflects a shift from being predominantly a single county and single invasive tree pest focused group to a group that has representation from all southern California counties and are dealing with more than one invasive tree pest.

San Diego GSOB Steering Committee approves change to “Emerging Tree Pests” – Kevin Turner

At the May 31st meeting in San Marcos, nearly 40 people attended, most of those in person and some by call-in at the 1PM hour. We had many new attendees, many of which were from state, county and federal wildlife agencies and/or related conservation planning/management groups. In light of the recent KSHB/Fusarium impact on riparian habitat, most were very interested in becoming a part of an organized effort to respond to KSHB and GSOB. They have been impressed by the organization and effectiveness of the GSOB organizations.

There are various options open to them to participate: these should/could become a part of the So Cal Forest Pest Committee which is the region-wide coordination effort; they can be part of the P/KSHB specialty group also. The reason for them to participate in the San Diego Steering Committee also is to have SD County-specific coordination; Orange and Riverside County have their own county-specific groups to coordinate local issues but also participate in the So Cal Committee, Outreach Education Committee, etc.

Action items: At a subsequent meeting on June 21st, the voting “lead” agencies approved amending the charter to reflect a change to Emerging Tree Pests from GSOB and to invite additional lead/voting agencies. Invitations have been sent to those agencies and the charter has been amended in draft form, awaiting ratification.

**San Diego County Department of Parks and Recreation, Dos Picos Regional Park – David Duran
GSOB Trees removed from April 1 - June 30, 2016**

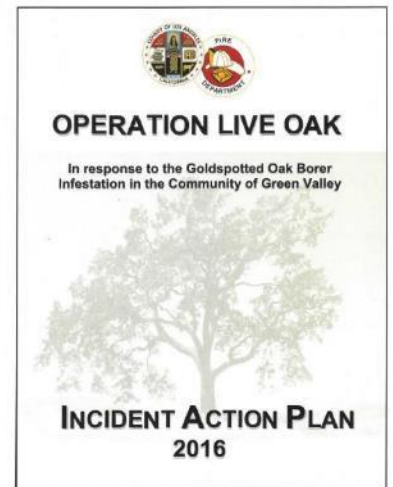
	<u>* New GSOB Trees</u>	<u>GSOB Trees Dropped This Quarter</u>	<u>Total # of GSOB Trees Dropped</u>
Campground	4	9	106
Day Use, Area 1			2
Day Use, Area 2		6	21
Day Use, Area 3	3	12	42
Along Service Road		3	12
Total	7	30	183

* New GSOB trees this quarter. Removing these trees is ongoing.

Number of trees planted this quarter: 2 trees planted by Dos Picos Staff. Agencies or groups that have assisted with GSOB, including tree planting: CCC, Cal Fire, private contractors, cub scouts (tree planting) . Is Dos Picos part of the heritage tree treatment program? Yes, 60 heritage coast live oak trees were treated with topical pesticides on 5-4-15.

Los Angeles County Update – Robin Allison, Green Valley GSOB Volunteer Coordinator

There has been a rapid, strong, coordinated response to the discovery of GSOB in Green Valley in Los Angeles County. Agencies and volunteers have collaborated in an effort to stop additional spread of GSOB and educate residents and the general public. LA County Fire – Forestry Division worked with other county agencies, UC, local volunteer groups and the Angeles National Forest to develop the response. (For more info on the Incident Action Plan, contact LA County Fire forester J. Lopez)



Photos below by Ron Sardisco



Some purple prism cardboard “sticky cards” have been hung in Green Valley and on San Francisquito Canyon Rd. These are part of the ongoing research about the location and spread of the flying GSOB beetles. When the cards are placed in locations with high densities of flying adults, these cards have provided the best information we have on the flight season of adult GSOB.

In addition to the sticky cards, Green Valley is tracking the emergence dates and rates for GSOB using barrels of infested wood that are periodically checked and emptied. Data on emergence from Green Valley will be compared to several other locations in Southern California. So far this season, 12 times as many beetles have emerged in the trap barrels in GV as the number that emerged at the next most-active research site in California. The Green Valley bark samples came from what is considered a heavily-infested “amplifying” tree. Look for published results comparing all the Southern California sample sites at the end of this year’s GSOB flight season.



Other “Emergence Date” test sites include Weir Canyon in Orange County, Idyllwild in Riverside Co., Oak Grove and Julian in San Diego Co. The sites represent a variety of geographical and elevational locations in Southern California. Results will be published once emergence has concluded at all sites. Many partners are contributing data.

GSOB “Emergence Date” test barrels and plus one additional barrel filled with infested wood and topped with soil to determine if GSOB can emerge when buried under a layer of soil.

The Angeles National Forest reports finding GSOB infested trees on National Forest Land in the Green Valley area and is taking prompt action. Contact Forester Vilius Zukauskas, for info.

Green Valley GSOB-infested trees are being removed and disposed of by several means:



Some infested wood has been buried, or ... other infested wood (bark) is being chipped

Since being trained in May 2016, volunteer inspectors in Green Valley have inspected more than 50 properties and 1,100 trees. This has increased the inspected area of Green Valley significantly. Inspections by volunteers continue, helping to cover as much private land as possible.



Green Valley volunteer inspection data, starting after May training session through the end of June. (About 2% of inspected trees are infested.)

month	properties inspected	trees inspected	infested trees	(non-GSOB) removal permits requested
May	24	374	12	3
June	27	785	16	

Riverside County Update— Gregg Bratcher – Riverside Unit Forester, Cal Fire

CAL FIRE/Riverside County Fire, Southern California Edison, and a local arborist identified 44 additional oak trees positive with GSOB in and around the mountain communities of Idyllwild, CA. CAL FIRE/Riverside County Fire, with the use of SRA FPF dollars removed 23 of the dead oaks, Southern California Edison removed 2 oak trees, and the arborist treated (pesticides) 1 oak tree. He has been contracted by a large landowner to treat/observe the 13 lightly infested trees still on their property. The remaining 5 oak trees; 4 dead oak trees killed by GSOB are no longer a threat due to no live material left on the tree, and 1 oak (alive) tree currently infested but there is no funding source for removal/disposal.

CAL FIRE RRU GSOB Quarterly Report April 1 - June 30, 2016								
Total # GSOB infested trees identified	Total # GSOB infested trees removed by SRA FPF \$'s	GSOB Lightly infested - for treatment	GSOB infested oak (live) for removal	GSOB infested oaks (already dead)	Treated by Arborist	Edison Removal	# of APN's involved	Inspections without + GSOB results
44	23	13	1	4	1	2	18	5

USFS Forest Health Protection – Melody Lardner

In May 2016 we provided information and training on GSOB and PSHB to the Forest Inventory and Analysis crew of the Forest Service that reads plots on National Forests in southern California and the southern Sierra Nevada Mountains.

Orange County Update

The known extent of infestation remains confined to Weir Canyon. Surveys continue in the rest of the county along with monitoring of Weir Canyon after receiving its second year of Integrated Pest Management.

Collaborative Tools Calendar

6/29/2016	PAPA Seminar-Santa Maria- CA	Santa Maria, CA
6/29/2016	CNF at SD County Fair	Del Mar Ca
6/25/2016	Oak Grove GSOB ID training	Oak Grove, San Diego County
6/16/2016	Invasive Tree Pests for Park Managers	Calabasas, CA
5/31/2016	GSOB Steering Committee	San Marcos, CA
5/27/2016	UCSB Sedgwick Reserve Invasive and Native pest on oaks presentation	UCSB Sedgwick Reserve, Clark Hall
5/6/2016	Santa Barbara GSOB/PSHB Training	Santa Barbara County Ag office
4/20/2016	All-counties Face to Face Outreach and Education Meeting and conversion to "Emerging Tree Pests"	Fallbrook
4/9/2016	GSOB Field ID Training for volunteers.	Green Valley in LA County
4/7/2016	Orange County Emerging Tree Pests quarterly meeting	Orange County Fire Authority Irvine, CA
4/7/2016	Border Agency Fire Council Meeting (BAFC)	EL Cajon, CA
4/2/2016	Oak Grove Community Management Plan	Oak Grove Private Residence

Goldspotted Oak Borer (GSOB) Education and Outreach Summary – Jan Gonzales UCCE San Diego

- Delivered a presentation on GSOB/PSHB to the Border Agency Fire Safe Council on April 7, 2016; members include local CAL FIRE staff, fire personnel from local agencies and representatives from CONAFOR, Baja California.
- Gave talk on GSOB/PSHB and risks of firewood movement at the San Diego County Fair, 6/21/16.
- Coordinated GSOB/PSHB tabletop display use with collaborators for outreach at the Fire Safe Council of Greater San Diego Annual Wildfire Community Preparedness event (Lakeside, 4/23/16), the WCISA Annual Conference (Anaheim, 5/13-16/16) and the San Diego County Fair (Del Mar, 6/3/16-7/4/16).
- Provided support for workshop in Santa Barbara County on *Urban and Wildland Tree Pests and Diseases*, held 5/6/16; GSOB and PSHB information was presented.
- Assisted with pre-workshop support for the *Invasive Tree Pests Workshop for Park Managers* held in Calabasas on 6/16/16.
- Organized workshop on *Invasive Tree Pests in San Diego*, scheduled for 7/28/16. Online registration at: <http://ucanr.edu/sites/pshb/Events/>
- Responded to 6 phone calls, online survey reports and/or email public inquiries about GSOB.
- Participated in 6 GSOB meetings and/or conference calls with the GSOB Education and Outreach Committee, 1 field tour with the CFPC-Southern California Forest Pest Committee and the GSOB Steering Committee meeting.
- Maintained the www.GSOB.org website.
- Coordinated with Fire Safe Council of San Diego County to print GSOB trifold brochures.
- Distributed GSOB handout materials:
 - 750 GSOB trifold brochures (English)
 - 500 UC IPM GSOB Pestnote
 - 100 GSOB Forest Insect and Disease Leaflet (USFS IPM)
 - 1,100 GSOB ID cards (100-Professional; 1,000-General Public)
 - 500 GSOB and Firewood Management pamphlets
 - 500 *Buy It Where You Burn It* firewood awareness postcards

Goldspotted Oak Borer Summary of Annual Outreach from 2009 to June 30 2016

- Summarized GSOB and SHB education and outreach activity since 2009 for a report requested by Sheri Smith (USDA Forest Service-State and Private Forestry Region 5). Provided GSOB information for number and types of events per year and estimated number of people reached.

December 2009 - December 2010

8	Workshops and Field ID Trainings	600 people
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36	Presentations (Oral and/or Poster)	2,400 people
14	Outreach Events-Educational Displays	1,301,800 people
2011		
6	Workshops and Field ID Trainings	280 people
32	Presentations (Oral and/or Poster)	1,330 people
8	Outreach Events-Educational Displays	1,401,050 people
2012		
5	Workshops and Field ID Trainings	291 people
9	Presentations (Oral and/or Poster)	835 people
11	Outreach Events-Educational Displays	4,775 people
2013		
10	Workshops and Field ID Trainings	509 people
19	Presentations (Oral and/or Poster)	2,175 people
9	Outreach Events-Educational Displays	1,812 people
2014		
7	Workshops and Field ID Trainings	468 people
25	Presentations (Oral and/or Poster)	2,609 people
9	Outreach Events-Educational Displays	1,458,885 people
2015		
4	Workshops and Field ID Trainings	179 people
9	Presentations (Oral and/or Poster)	648 people
7	Outreach Events-Educational Displays	1,504,815 people

Please direct any corrections, questions or comments about the quarterly report to Kevin Turner at kevint@ucr.edu. We welcome your future contributions to the report for any activities or information related to GSOB. A reminder will be sent out through Collaborative Tools at the end of the next quarter.