

Goldspotted Oak Borer and Oak Mortality Quarterly Situation Report January 1 through March 31, 2014

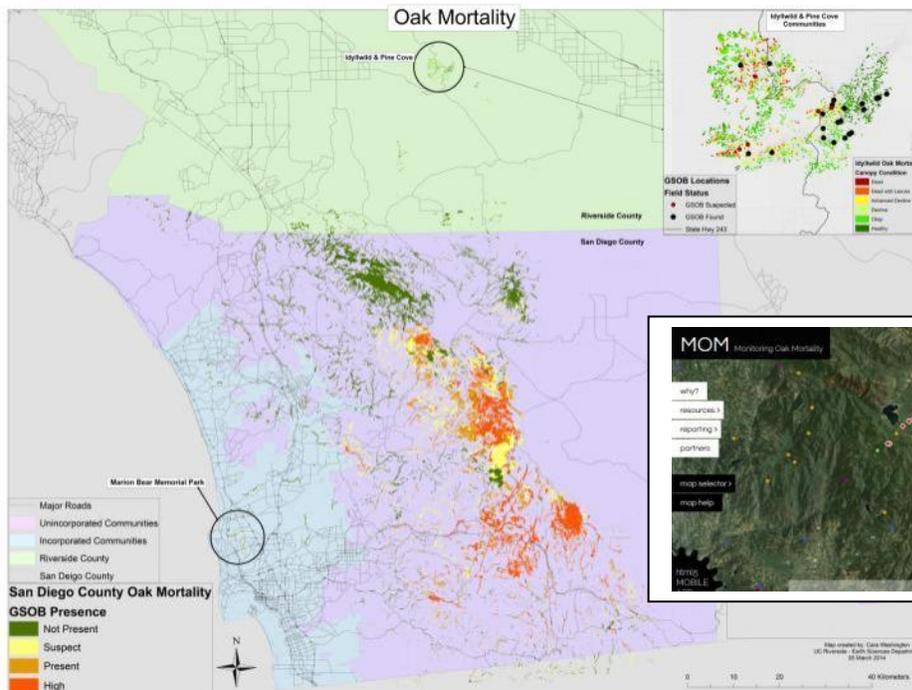
California Forest Pest Council Authorizes Formation of GSOB Task Force

The first meeting of the task force will occur on the first week of June at a venue in north San Diego County. An announcement with meeting details should be coming out soon.

Monitoring and Detection

Follow-up on Reports of GSOB Made Through the GSOB.ORG Website

The agencies involved in responding to reports of possible GSOB activity in San Diego County have reported a significant upturn in the amount of reports received, thereby necessitating more site visits by agency personnel. Of particular concern is an uptick in reports coming from the Fallbrook area in northern San Diego County, although the presence of GSOB there has not been confirmed.



The GSOB Oak Mortality map is based upon canopy mapping and some individual tree data. The MOM map is based solely on individual tree data.





San Jacinto Mountains (Riverside County) Update

One additional infested tree was discovered during this quarter making a total of **30** California black oaks (*Q. kelloggii*) confirmed to have GSOB in the Idyllwild area. The latest tree was discovered by Mr. Pat Boss, a project manager with the Mountain Communities Fire Safe Council, while conducting an evaluation of an Idyllwild home for adequate defensible space. Pat has made several of the discoveries in Idyllwild. Fire safe councils, garden clubs and other volunteer groups make excellent partners for GSOB detection and outreach, as they interact with the community.

The owner of this house and infested tree #30 is very fortunate in that the Riverside County Fire Department has some grant funds remaining to assist with the removal and disposal (grinding) costs.

The California black oaks in the higher elevations are beginning to bud which means that soon new dead oak trees will be able to spot if they fail to leaf out, a potential sign of GSOB-caused death.

GSOB Early Warning System Mobile Device Applications and Database

We have two mobile device applications currently in use. “GSOB Tracker” is the new, simplified app that allows lay-persons or experts to submit simple short reports of suspected GSOB infestation along with photos that we can use to determine if additional information is necessary. The “MOM (Managing Oak Mortality) app, a more complex survey tool, continues to be used by some. Survey reports can also be submitted by spread sheet. We have one other system for reporting and tracking inspection results; the Riverside County volunteers and CAL FIRE work off a shared Access database along with our staff using Dropbox.

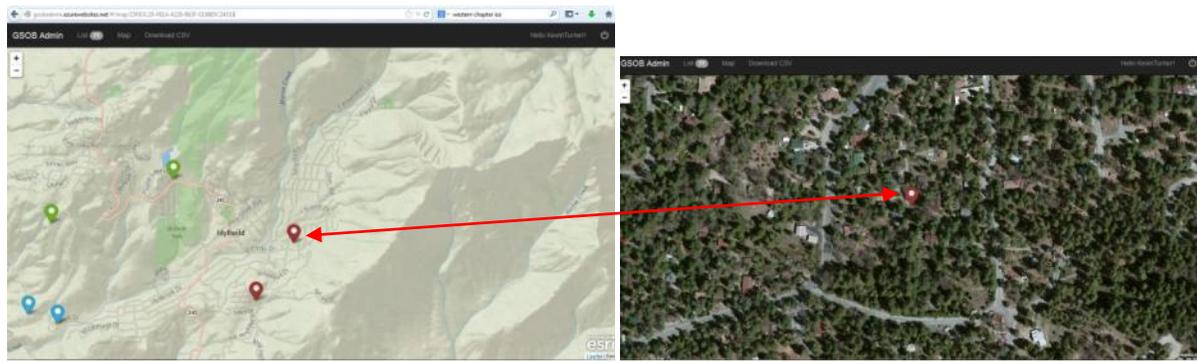


GSOB Tracker's Administration Page is limited to access only by those authorized to view citizen reports and determine the status (infestation likely or unlikely). We've been undergoing significant testing and refinement during this quarter. GPS accuracy is a problem on some mobile devices, but not others. We hope to release this to the general public this next quarter. It has been made available to GSOB agency partners for use and testing.

This is the first page of the administrative site for GSOB tracker. Status is determined during review.

Species	Health	Collected By	Date	Status
coast live oak	Tree appears dead	Kevin@ucr.edu	Last Thursday at 8:14 AM	Infestation Not Likely
black oak	Leaves are green, but canopy has gaps	Kevin@ucr.edu	03/31/2014	Infestation Not Likely
black oak	Tree appears dead	kevin@UCR.edu	03/10/2014	Infestation Likely
coast live oak	Leaves are all or mostly brown	kevin@UCR.edu	03/07/2014	Infestation Not Likely
unknown/other	Leaves are green, but canopy has gaps	kevin@UCR.edu	03/07/2014	Infestation Not Likely
coast live oak	Tree appears healthy	kevin@UCR.edu	03/07/2014	Infestation Not Likely
coast live oak	Tree appears healthy	kevin@UCR.edu	03/06/2014	Infestation Not Likely
coast live oak	Tree appears healthy	kevin@UCR.edu	03/06/2014	Infestation Not Likely
coast live oak	Tree appears healthy	kevin@UCR.edu	02/26/2014	Infestation Not Likely
coast live oak	Leaves are green, but canopy has gaps	kevin@UCR.edu	02/26/2014	Infestation Not Likely
unknown/other	Tree appears healthy	mgarrid0oe@gmail.com	02/26/2014	Infestation Not Likely
coast live oak	Tree appears healthy	kevin@UCR.edu	02/24/2014	Infestation Not Likely
unknown/other	Leaves are all or mostly brown	kevin@UCR.edu	02/22/2014	Infestation Not Likely

*Each tree entered generates an icon on the map. Zooming-in transitions the map into an aerial image. **Blue** dots indicate status currently undetermined, **green** – Infestation Not Likely, **red** – Infestation Likely*



Clicking on an icon on the map or selecting a tree from the List of Surveys opens the photo and data page

GSOB Tracker photo and data page

GSOB Admin List 71 Map Download CSV Hello KevinTurner! ⏻

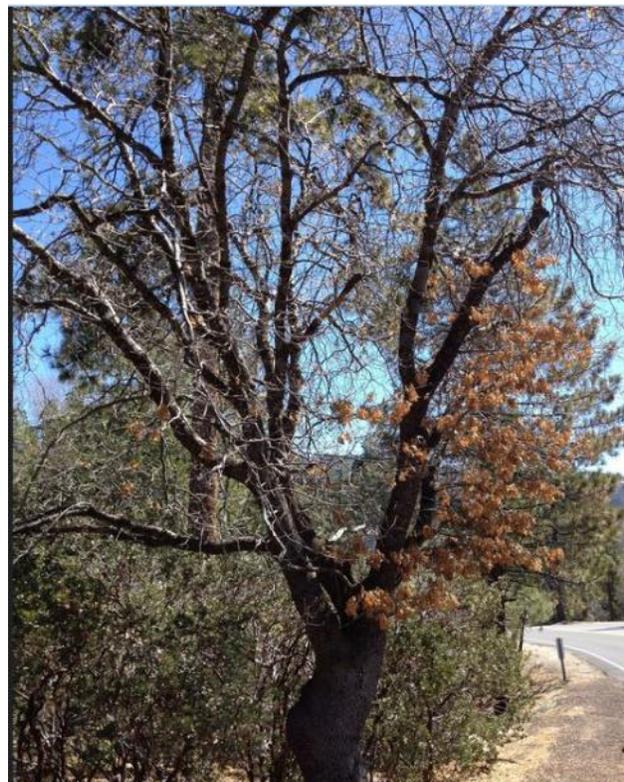
Infestation Likely Not Likely View on Map 🗑️ Delete

Tree Photo Leaf Photo Trunk Photo

Species:	black oak
Health:	Leaves are green, but canopy has gaps
Diameter:	1-2 feet
Collected By:	Kevint@ucr.edu
Date:	Mon, Mar 31st 2014, 12:03 pm

Clicking on the arrow at the bottom of each photo zooms in on the photo in the correct orientation. →

You may be asking yourself, why was this tree recorded as “Leaves are green but canopy has gaps”? This deciduous black oak is currently without leaves on most of its branches; however its buds are swelling indicating probable leaf-out in a few weeks. The few branches that failed to abscise their leaves caused suspicion of GSOB infestation. (The lack of winter leaf drop on black oaks has led to the discovery of several of the GSOB-infested oaks in Idyllwild.) However, upon close examination, no other signs of GSOB infestation were observed on this tree. It will be monitored over the next year to see if signs of GSOB manifest themselves. The tree’s current status is “Infestation not likely”.



Students at the Cuyamaca Outdoor School are being introduced to MOM and GSOB Tracker mobile apps. Currently, the GSOB Tracker app is limited to use on Apple IOS mobile devices. It will need to be adapted in the future to run on Android platforms.

The GSOB Tracker data can be downloaded as a spreadsheet and incorporated into the GSOB database

A	B	C	D	E	F	G	H	I	J	K	L
1	Collected By	Date Collected	Diameter	Health	Species	Latitude	Longitude	Status	Treed		
2	kevint@ucr.edu	4/3/2014 15:14	1-2 feet	Tree appears dead	coast live oak	33.73112	-116.814	Infestation Not Likely	698AE3D5-9729-48A2-B619-DE75C37ADE78		
3	kevint@ucr.edu	3/31/2014 19:03	1-2 feet	Leaves are green, but canopy has gaps	black oak	33.75385	-116.725	Infestation Not Likely	F4F7A587-7EDB-42AD-8D6F-8558BE360021		
4	kevint@ucr.edu	3/10/2014 17:39	2-3 feet	Tree appears dead	black oak	33.74432	-116.703	Infestation Likely	15F93C29-F81A-4226-863F-E10885C24D1B		
5	kevint@ucr.edu	3/7/2014 23:22	1-2 feet	Leaves are green, but canopy has gaps	unknown/other	33.97576	-117.326	Infestation Not Likely	DA4BB907-143C-4E32-B9E9-9AA7C15E9D0D		
6	kevint@ucr.edu	3/7/2014 23:18	1-2 feet	Tree appears healthy	coast live oak	33.97576	-117.326	Infestation Not Likely	73BF421C-ACB5-4EBA-B72B-079F488BAF48		
7	kevint@ucr.edu	3/7/2014 23:25	Less than 1	Leaves are all or mostly brown	coast live oak	33.97576	-117.326	Infestation Not Likely	D49488A7-9A43-41E9-B8C3-C8EF44A4EC96		
8	kevint@ucr.edu	3/7/2014 0:29	1-2 feet	Tree appears healthy	coast live oak	33.73708	-116.833	Infestation Not Likely	61D7FB77-B6D5-489A-9BA8-80F13F2E61C2		
9	kevint@ucr.edu	3/7/2014 0:25	2-3 feet	Tree appears healthy	coast live oak	33.73708	-116.833	Infestation Not Likely	A28F8023-BEC9-4C7B-AB1F-46DD2E1398E2		
10	kevint@ucr.edu	2/26/2014 23:04	2-3 feet	Tree appears healthy	coast live oak	33.97104	-117.322	Infestation Not Likely	E1894A9D-8788-4503-B2B6-C1EAE7F96E9		
11	kevint@ucr.edu	2/26/2014 23:01	1-2 feet	Leaves are green, but canopy has gaps	coast live oak	33.97104	-117.322	Infestation Not Likely	02D76C83-5309-4C95-9081-68400310FDEE		
12	kevint@ucr.edu	2/24/2014 20:48	1-2 feet	Tree appears healthy	coast live oak	33.97163	-117.322	Infestation Not Likely	AD380948-A757-43C7-A23C-C7EFC6C73E36		
13	kevint@ucr.edu	2/22/2014 17:52	Less than 1	Leaves are all or mostly brown	unknown/other	34.25945	-118.82	Infestation Not Likely	5D6125F7-BD4D-42BC-846B-7F07DD4B438E		
14	kevint@ucr.edu	2/22/2014 17:40	2-3 feet	Leaves are green, but canopy has gaps	coast live oak	34.25942	-118.82		EC7BCD16-E81B-4DA6-BEC3-6EBB21E14AC2		
15	kevint@ucr.edu	2/22/2014 17:35	1-2 feet	Leaves are green, but canopy has gaps	coast live oak	34.25942	-118.82		AFDE3B85-2F76-49AD-8D61-15B7BA05EEF9		
16	kevint@ucr.edu	2/22/2014 17:32	2-3 feet	Leaves are green, but canopy has gaps	coast live oak	34.25942	-118.82		0F826E6E-E9B4-4BA0-A746-45A1544F4D62		
17	kevint@ucr.edu	2/22/2014 17:27	2-3 feet	Leaves are green, but canopy has gaps	coast live oak	34.25942	-118.82		DDFE7A89-8543-4661-96C6-CE2B11D8B12A		
18	kevint@ucr.edu	2/21/2014 0:22	2-3 feet	Tree appears healthy	canyon live oak	33.73225	-116.995		16440FF8-EBB2-4530-9EB2-4FA29AC292A4		
19	kevint@ucr.edu	2/21/2014 0:10	2-3 feet	Leaves are green, but canopy has gaps	black oak	33.74473	-116.947		FBA8C8C9-EEE1-4011-833F-17280017BESD		
20	kevint@ucr.edu	2/20/2014 23:50	4 or more fe	Leaves are all or mostly brown	black oak	33.75229	-116.921		C28FE3C2-EA42-48E1-B7A2-B4D8080A949D		
21	kevint@ucr.edu	2/20/2014 23:23	4 or more fe	Tree appears healthy	canyon live oak	33.76775	-117.144		63D63031-6376-40A3-9D2F-7336E09544B4		
22	kevint@ucr.edu	2/20/2014 22:17	1-2 feet	Tree appears healthy	black oak	33.73367	-116.751		57A4FBFA-EB42-4379-846C-0EB74B7963AB		
23	kevint@ucr.edu	2/20/2014 23:06	Less than 1	Leaves are green, but canopy has gaps	canyon live oak	33.74731	-116.747	Infestation Not Likely	AA80CBDF-D9DB-43CA-A595-4DDC86CFB0D7		
24	kevint@ucr.edu	2/14/2014 20:39	4 or more fe	Leaves are green, but canopy has gaps	unknown/other	33.97165	-117.325		F5C7D5CF-E750-4D34-BD3C-F8E73058EBD8		
25	kevint@ucr.edu	2/14/2014 19:45	1-2 feet	Tree appears healthy	unknown/other	33.97515	-117.327		D0D87DCE-EE07-4C99-843F-E230AF8162EC		
26	kevint@ucr.edu	2/14/2014 19:43	1-2 feet	Tree appears dead	unknown/other	33.97271	-117.322		8B899B23-2192-4C3C-98D2-C209C22646A9		
27	kevint@ucr.edu	2/14/2014 19:38	1-2 feet	Leaves are green, but canopy has gaps	unknown/other	33.97263	-117.321		47CDBD8B-203E-4825-B21F-C00A3CC84DC1		

GSOB Outreach

Jan Gonzales - Outreach efforts and accomplishments from this quarter:

- Organized and held workshop, *Managing Oak Pests and Diseases in San Diego County* on February 6, 2014 at Balboa Park. Topics covered current information on the goldspotted oak borer, the polyphagous shot hole borer, other native and non-native oak pests and diseases and requirements for pesticide applicators. There were 93 participants including land managers, parks staff, landscapers and arborists, retail landscaping businesses and concerned residents. Presenters included representatives from County Agriculture, Weights and Measures; the University of California, Riverside and US Forest Service.
- Provided training on GSOB for the Crestridge Volunteer Rangers, January 23, 2014. Covered topics on GSOB ID, life-cycle, management research and options, monitoring and reporting, and firewood management. There were approximately 25 volunteers and Reserve staff in attendance. Collaborated with Cathy Chadwick (EDI) and Mark Ostrander (EWS).
- Joined County Entomologist, Tracy Ellis in meeting with Hector Baez (U.S. Customs Border Patrol) to discuss future educational displays at border crossings on GSOB, firewood movement and wildfire.
- Responded to 10 phone call and/or email inquiries regarding GSOB.

- Facilitated the printing of more Firewood BMP pamphlets and Firewood Advisory handouts.
- Distributed handout materials:
 - 1,200 GSOB trifold brochures
 - 250 GSOB I.D. cards
 - 250 UCIPM GSOB Pest Note pamphlet
 - 100 Firewood BMP's pamphlets
 - 200 Firewood Advisory handouts
- Participated in 6 GSOB meetings/conference calls with the Education and Outreach Committee, including a tour at the County Cuyamaca Outdoor School and sixth grade oak/GSOB monitoring program.
- Maintained website updating maps, adding new resources and managing event registration and evaluation surveys.
- Began organizing GSOB Symposium – state of the science workshop and the organizational meeting for the regional GSOB taskforce to be held in June 2014.
- Continued work on GSOB online self-guided training modules and organizing a GSOB Symposium for late spring 2014.

Collaborative Tools Outreach Calendar for the October through December 2013

3/26/2014	Outreach Committee Face to Face Meeting	Kevin Turner
3/26/2014	TV Interview	Tracy Ellis
3/21/2014	"How to Catch an Insect" for Children	Tracy Ellis
3/17/2014	Supervising San Diego County Park Rangers	Tracy Ellis
2/6/2014	Managing Oak Pests and Diseases in San Diego County	Jan Gonzales
1/23/2014	Crestridge Reserve Ranger Volunteer GSOB Training	Jan Gonzales
1/9/2014	Riverside County MSHCP Mtg	Kevin Turner

Other GSOB-related Activities

- **San Diego GSOB Steering Committee** - The Steering Committee met on February 19th and set to work on a three-year action plan to prioritize projects and project budget needs. That plan was then submitted to Sheri Smith of USFS Forest Health Protection
- **California Firewood Task Force** Kevin Turner participated in CFWTF meetings this quarter.

- On March 31st, Kevin Turner met with USFS State and Private Forestry wood utilization specialist Larry Swan and San Bernardino National Forest - San Jacinto District Forester Kayanna Warren in Idyllwild to discuss GSOB disposal options and the current protocol for the removal and disposal of infested trees. The SBNF has not yet found any GSOB-infested trees on NF land, but they want to have management options identified if or when infested trees are discovered.

GSOB Research Education and Outreach Committee

Participants at the March 26th GSOB Outreach Committee face-to-face meeting at Cuyamaca Rancho State Park included: State Parks, San Diego County Parks, San Diego City Parks, Cleveland NF, San Bernardino NF, San Diego County Agriculture Commissioner’s office, UCCE San Diego, UCR/UCCE Berkeley, CAL FIRE San Diego Unit, Riverside County Fire Department, and Mountain Communities Fire Safe Council (Idyllwild).



Some of the attendees that had not yet been able to practice GSOB attack ID got an opportunity to see first-hand signs of GSOB in coast live oak.

San Diego County Parks and Recreation Report

<u>Location of following</u>	<u>New GSOB trees</u>	<u># of Trees dropped due to GSOB</u>	<u>Dos Picos Park Other GSOB concerns</u>
Campground	0	6	Five new cases of GSOB found along service road at Old Youth Area. Just discovered, these five trees will need to be cut down and chipped. Otherwise, canopy in all areas still looks generally healthy. We will continue to monitor trees with routine inspections and with help from GIS aerial photographs.
Day Use, Area 1	0	0	
Day Use, Area 2	0	1	
Day Use, Area 3	0	1	
Along Service Road	5	0	

<u>Location of following</u>	<u>New GSOB trees</u>	<u># of Trees cut due to GSOB</u>	<u>William Heise Park Other GSOB concerns</u>
Picnic Area # 1			Continued crown thinning, Coast live and Black oak mortality
Entrance Drainage		3	Continued crown thinning, Coast live and Black oak mortality
RV loop			Mortality appears to be stabilized at this time. Road below loop increased mortality
Cabin Loop			Coast live oaks showing thinning and stress on perimeter of area.
Volunteer loop		6	Canyon oaks showing signs of infestation, continued thinning throughout.
Middle Loop		2	Continued oak mortality, mainly Coast Live.
YC1/Pond			Canyon oaks still showing signs of infestation
Upper loop		11	Greatest amount of removals over last quarter.
Julian Estates			
Ranger residence # 1			
Ranger residence # 2			Continued mortality moving outward from initial area.

Please direct any questions or comments about the quarterly report to Kevin Turner kevint@ucr.edu . We welcome your future contributions to the report for any activities or information related to GSOB. For submitting information for the upcoming April through June 2014 quarter report, please provide your input to me by close of business on July 9th. A reminder will be sent out through Collaborative Tools at the end of June.