

**Fire and Forest**  
**The Threat to Our Oaks**

**by Mike Esnard**

**(from The Town Crier - February 2013)**

There is a current and real threat to most of the oaks in our community—the GSOB, or the Goldenspotted Oak Borer. This beetle has killed tens of thousands of oaks in San Diego County, and has now been positively identified in Idyllwild. So far it has been found in four trees around the center of town. Whether or not we can contain it will depend on how well we as a community, residents and agencies together, act to identify and remove infected trees.

The GSOB is not native to California, so it presents all the problems of an invasive pest—no natural predators, and limited host immunity. It is native to southeast Arizona and points further south, and was mostly likely brought to San Diego in the '90s in the form of firewood, which is almost certainly how it was brought up here.

The mature beetle lays eggs on the bark surface and in crevices. When the eggs hatch into larval form they bore into the tree and grow underneath the bark, feeding on the tree and damaging its water and nutrient systems. When the bug matures into a beetle, it exits the tree to find another host, leaving a small D-shaped exit hole when it emerges. Red staining is clearly evident under the bark, and sometimes on the external bark of the tree.

Unfortunately, we have no treatment as yet for an infected tree. Dr. Tom Coleman of the US Forest Service, the foremost authority, is now conducting research on the effects of various insecticides, but the research is only in its middle stages and he cannot recommend any chemical to kill the GSOB when it is identified in a live tree.

So like many public health threats, we must focus on prevention. No one should buy any oak that they are not certain is free of the GSOB. This means no oak from off the hill, and no local oak unless someone

knowledgeable assures you it is free of the beetle. Burning infected wood will kill it, of course, but letting it lay outside in the warm months will allow it to mature and spread to oaks around your house.

The other public health action we must take is surveillance. There are certainly other infected oaks around town, and the sooner we can find them the sooner the tree can be removed, thus limiting the spread.

Everyone with oaks, especially black oaks, should pay close attention to their trees as spring approaches. The beetle likes large oaks, and will bore into the lower trunk, so anyone can check for staining or the D-shaped holes by looking at the lower part of the tree. Our website at [mcfsc.org](http://mcfsc.org) is loaded with lots of useful links for more information, or go to [gsob.org](http://gsob.org) or the Riverside County Fire website. Groups are working on this problem and more information should become available as they progress in their work.

Losing our oaks would drastically change the esthetics of the area. Many large black oaks are trees of great beauty and they are the most susceptible to the beetle. (It will also attack Canyon and Coast Live Oak.) Please check your trees, especially as it warms, and if you suspect that any are infected call the Nature Center at 659-3850 to further discuss your tree. Whatever you do, be extremely cautious about buying oak for firewood, and avoid anything from off the hill.