



Goldspotted Oak Borer (GSOB)

A new threat to oaks in California



COAST LIVE OAK



CALIFORNIA BLACK OAK



CANYON LIVE OAK

**GSOB PREFERS
THESE OAK SPECIES**

BARK STAINING
ON MAIN STEM FROM
LARVAL FEEDING

Exit Hole

**THINNING
CANOPY**

www.gsob.org

0
INCHES



**D-SHAPED
EXIT HOLES**
(3-4 mm)

**LARVAL FEEDING
UNDER THE BARK**



2

GSOB LARVAE
(20 mm)



GSOB ADULT
(10 mm)



(PHOTOS DEPICT ACTUAL SIZE)

**UC
CE**

CENTIMETERS



ISHB . Symptoms of infestation

(appearance varies by species)



Staining



Gumming



Sugar



Frass



Entry-holes

~0.85mm



Photos provided by authors (see other side) and Akif Eskalen (UC Davis)

ISHB . Invasive shot-hole borer

Tree-killing
beetle; spreads
the tree disease

Fusarium Dieback



Authors: Monica Dimson, Beatriz
Nobua-Behrmann, John Kabashima

Attacks:
sycamore,
oak, willow,
cottonwood,
avocado, and
many other
species



Branch dieback



Adult beetle (2.8 mm)

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