





Technical Bulletin for: Redbay Ambrosia Beetle

Xyleborus glabratus (Eichhoff) • Coleoptera, Curculionidae • XYLGLA



DISTRIBUTION	Widely distributed across Asia (including China, India, Japan, Myanmar, Taiwan, Thailand and Vietnam) and North America (Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and Texas)
HOSTS	Avocado, Sassafras and Red Bay
DESCRIPTION	
ADULT	The female is a small (2.1 to 2.4 mm long), black or amber-brown, cigar-shaped beetle. The dorsal surface is mostly hairless and shiny when compared to other ambrosia beetles. Males are haploid, smaller in size, and flightless.
LARVAE	White in color and legless, with an amber head capsule.
EGGS	
LIFE HISTORY	The beetle's biology is poorly documented but presumed to be similar to that of other ambrosia beetles, with larvae and adults feeding on the symbiotic fungus it carries with it, and not the wood of the host tree. The spores of the fungus are carried in mycangia at the base of each mandible. Larval development time takes from fifty to sixty days. Studied populations increase steadily in size until late summer and early fall without distinct population peaks, leading researchers to believe that there are overlapping generations with year-round reproduction for the insect.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	Ethanol, Ethyl acetate, Isoamyl alcohol and Isoamyl acetate in a black pouch. Lure longevity: 30 days.	
TRAP TO USE	Panel Trap	
MONITORING STRATEGY	Place traps in host trees, near pre-existing wounds within the bark, where fungal infection may be possible. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
CULTURAL & PHYSICAL CONTROL	<i>Xyleborus glabratus</i> will continue to naturally expand its range. In order to reduce its spread, no wood or chips from infested trees should be transported out of the local area. Further preventative measures include removal and disposal of infested areas prior to adult emergence.	

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