Rearing Bark and Ambrosia Beetles from Naturally Infested Wood

Jiri Hulcr¹, Andrew J. Johnson³, Demian F Gomez¹

¹University of Florida

ABSTRACT

This protocol describes how to rear bark and ambrosia beetles in naturally infested wood.


Sealing ends of logs against desiccation (multiple options):
- with parafilm (quickest)
- Spectracide pruning seal (United Industry Corp.)
- paint over with natural latex
- dip in molten wax

Suitable rearing box
Long, skinny, transparent plastic tupperware with a snug lid.
The beetles often have problems walking on slick wet surface such as in a plastic box. Options for the surface inside:
- paint with latex and cover with sand immediately, to create rough surface
- roughen with sandpaper (not reliable, droplets still catching beetles)
- put paper towels on the bottom (keeps moisture well, but not reliable, doesn’t cover corners, which is where beetles congregate)

Many other rearing box designs exist, most of them dark, with a transparent bottle attached to concentrate the insects. Our design is simpler, and sufficient to rear and collect live, freshly emerged beetles, which is critical for research.