

# Asian Longhorned Beetle

AEC was invited to demonstrate the AED-2000 and Model SP-1 probe for the detection of Asian Longhorned Beetle (ALB) larvae feeding on tree limbs. Testing was performed at the USDA/USFS Quarantine Lab in Ansonia, CT in June 2002.

ALB infestations have been discovered in the New York City and Chicago areas, having originally been introduced by infected shipping containers from Asia. They prefer mature maple trees for a start, and are a major threat to the hardwood forests of North America if allowed to spread.

The USFS lab in East Lansing, MI has a program to develop field survey methods, and are engaged in developing a portable acoustic field monitoring tool to locate infected trees.

For more information on the threat of the ALB to America's hardwood forests, see the site below.

<http://www.aphis.usda.gov/oa/pubs/fsalb.html>



USFS Entomologist Toby Petrice takes a turn listening to the sounds of ALB larvae feeding on a cottonwood tree limb at the Ansonia, CT quarantine lab.



Click Icon to hear sounds of feeding at nearest SP-1 probe



Click Icon to hear sounds of feeding at farthest SP-1 probe

Cottonwood Specimen #35 instrumented with AEC Model SP-1 probes. Probes are magnetically attached to lag bolts screwed into each end of the 8 ft long x 4-6-inch diameter limb. Five ALB large larvae are feeding in the branch at ~ 6 inches in from the near probe on the far left. All of them appear to be tunneling in the direction of the far probe. Detected sound amplitudes indicate that the AED-2000 with SP-1 probe would be able to pick up sounds over 20 ft away from feeding larvae.

