





# Technical Bulletin for: **Wood Stainer**

*Gnathotrichus* sp. (Linnaeus) • Coleoptera: Scolytidae • GNATHO



<b>DISTRIBUTION</b>	Europe and the Near East. Invasive in North America
<b>HOSTS</b>	Various species of trees, including oak, pine, spruce, fir, and poplar.
<b>DESCRIPTION</b>	
<b>Adult Moth</b>	2-3.7 mm in length. Color is normally dark brown with a black head. There are 16 described species.
<b>Larvae</b>	White, legless and small.
<b>Eggs</b>	Smooth, oval, white and translucent.
<b>LIFE HISTORY</b>	Adults tunnel into the bark, cambium, and/or wood of its hosts, but it lives by cultivating and utilizing symbiotic fungi as a food source within its tunnels. The male initiates the boring of a new gallery by constructing a radial entrance tunnel through the bark into the wood. After pairing has occurred, the female is generally responsible for boring egg galleries, the formation of egg niches, and care of eggs and larvae. The male keeps the nuptial chamber and entrance tunnel clean and expels the frass from the entrance hole. Eggs are deposited individually in the large egg niches formed by the female. Larvae have 3 instars and take 30-90 days to pupate, which subsequently takes 6-9 days. All larval stages overwinter within infested wood.

## MONITORING INFORMATION

<b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b>	Sulcatol, (-)Alpha-pinene and Ethanol in a plastic bulb. Lure Longevity: forty-five (45) days.	
<b>TRAP TO USE</b>	Panel Trap, Black	
<b>MONITORING STRATEGY</b>	Hang traps near host plants, at least 1-2 m off of the ground. When trapping for multiple species of insect, a spacing of up to 20m is recommended Check with local Forestry Service for further information and recommendations.	
<b>CULTURAL &amp; PHYSICAL CONTROL</b>	Inspect for damage to bark and outer phloem, including egg and nuptial galleries. Remove infested sections as necessary. In extreme cases, removal of infested host tree may be necessary. Incinerate removed infested components or trees to reduce the risk of further infestation.	

**Alpha Scents, Inc.**  
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