



Technical Bulletin for: Japanese Pine Sawyer

Monochamus alternatus (Hope) • Coleoptera, Cerambycidae • MONALT



DISTRIBUTION	China, Japan, Laos, Taiwan, Hong Kong, Vietnam, and Korea
HOSTS	Japanese Red Pine, Chinese Red Pine, Chinese White Pine, Jack Pine, and Momi Fir
DESCRIPTION	
Adult Moth	Elongate with long legs and long antennae. Length 18-27 mm. Width 6-9 mm. Black composed of marbled brown (or black) and mud-yellow, two longitudinal orange bands on pronotum; scutellum mud-yellow. Elytron covered with numerous longitudinal bands composed of alternate brown (or black) and white rectangular spots. Antenna 1.3 times as long as body for females and twice as long for males.
Larvae	Cylindrical and elongate with oval head and no legs. Head capsule highly depressed, about 1.3 times as long as wide
Eggs	Yellowish-white, occasionally with a hint of brown. Egg is elongate oval, on average 4.2 mm long and 1.1 mm in width. The surface is covered with tiny hexagonal reticulations
LIFE HISTORY	Adults emerge from dead host trees between May and July. They are reproductively immature and feed on the bark of pine twigs. Males require at least 5 days before they are ready to inseminate females and females require an average of 3 weeks to oviposit although the variation in pre-oviposition period is large. For oviposition, the female gnaws at the bark surface with her mandibles to make a wound. Then, she turns 180° to position the ovipositor over the wound, inserts the ovipositor through the center of the wound, and deposits a single egg in the inner bark. There are up to 3 generations per year, depending on the region.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	<p>MONALT: 2-undecycloxy-ethanol, alpha pinene, in a coaster lure packet and foam pouch. MONALT+: 2-undecycloxy-ethanol, alpha pinene, 2-methyl-3-buten-2-ol and (+/-)-ipsdienol in a coaster lure packet, vial and foam pouch.</p> <p>Lure longevity: Thirty (30) days.</p>	
TRAP TO USE	Panel Trap	
MONITORING STRATEGY	Check with Local Forestry Service for information and recommendations.	
CULTURAL & PHYSICAL CONTROL	Destroy dead host trees by burning or chipping, otherwise burying them at least 15 cm deep in the soil.	

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