



Technical Bulletin for: Emerald Ash Borer

Agrilus planipennis (Fairmaire) • Coleoptera, Buprestidae • AGRPLA



DISTRIBUTION	Russia, Ukraine, Mongolia, Northern China, Japan, Korea, Invasive to North America
HOSTS	Species of Ash tree (including Green, White and Blue Ash), as well as the White Fringe Tree in North America
DESCRIPTION	
ADULT BEETLE	Bright metallic green, roughly 8.5mm in length and 1.6mm wide. Elytra are typically darker but may have copper hues. Has a bright red upper abdomen underneath wings, spine on the tip of the abdomen, and serrate antennae
LARVAE	Four instars, mature larvae are 26-32 mm long
EGGS	Eggs are 0.6-1.0 mm in diameter, initially white but later turn reddish-brown and fertile
LIFE HISTORY	Adults emerge after around 400-500 accumulated degree-days above 10 °C (50 °F). They feed for one week on ash leaves prior to mating, though little defoliation occurs. Males hover around trees, locating females via visual cues, and dropping directly onto them to mate- the process taking up to 50 minutes. Females can mate multiple times, living around 6 weeks, and typically lay approximately 40-70 eggs, sometimes even laying up to 200. Eggs are deposited between bark crevices, flakes or cracks, hatching in about 2 week. Larvae feed and develop in the inner phloem, cambium and outer xylem of the tree. At maturity, larvae fold into a J-shape and pupate, exiting as adults through a characteristic D-shaped hole.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	z-3-hexenol on a Coaster lure in a peelable foil packet. Lure Longevity: Four (4) weeks	
TRAP TO USE	Green Panel Trap	
MONITORING STRATEGY	Hang traps in mid to late spring and/or early summer, when adults usually emerge, in the lower branches (or directly next to) host trees, particularly any which have visual damage or exhibit distress. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
CULTURAL & PHYSICAL CONTROLS	Quarantine infested trees, cutting out infested parts or removing and incinerating entire tree if necessary. On any damaged or stressed trees not yet infested, cover wounds in bark and prune dying or dead branches.	

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Alpha Scents, Inc., 360 S. Sequoia Pkwy. Canby, OR 97013
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com