

Safari® INSECTICIDE

EMERALD ASH BORER MANAGEMENT STRATEGIES

Emerald Ash Borer (EAB) is a devastating invasive pest that can kill ash trees within two years after infestation. EAB has killed tens of millions of ash trees in the Midwestern and Eastern United States during the past 10 years, and the infestation area is spreading rapidly. University research has demonstrated that Safari® Insecticide can protect ash trees from EAB.

Due to its unique chemical properties (high solubility and low binding to organic matter), high amounts of Safari are rapidly absorbed by ash trees and then transported in the vascular system to where EAB feeds. This results in faster control of EAB than with less systemic products and also extends the application window later in the season.

EAB OVERVIEW:

- A wood-boring beetle, EAB attacks all types of ash trees (weak or healthy) in forests and landscape settings
- Detection - EAB infestation is usually not detected until after tree dieback becomes obvious
- May to August - Eggs hatch into larvae and tunnel into ash trees - larval feeding causes damage
- Impact
 - Removal of ash trees is often much more expensive than insecticide treatment
 - It can cost as much as \$2,000 to \$5,000 to remove a large ash tree located near a building, and the loss of a large tree can significantly reduce property value
- Treatment - By treating trees rather than having them removed, homeowners can often save a great deal of money and retain aesthetic value, property value and/or privacy

EAB MANAGEMENT STRATEGIES:

EAB does not have to be a death sentence for ash trees. Systemic insecticides are effective at protecting ash trees from EAB infestation and can also be used to save trees already showing early signs of infestation.

1. TREE REMOVAL

- Will not stop EAB spread
- Trees do not show symptoms until 1-4 years after infestation

2. INSECTICIDE TREATMENT

- High rate of success
- Preventive or early curative application key

3. COMBINATION OF 1 AND 2

- Treat signature/high profile trees
- Remove stressed or less desirable trees



Grow a better tomorrow.

Image Credit: Daniel Herms, The Ohio State University, Bugwood.org

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PRODUCT CHOICE CONSIDERATIONS

- Efficacy is NOT the only consideration
- Also consider:
 - Speed of application (labor)
 - Ease of application (applicator training)
 - Flexibility of application (use methods)
 - Customer budget (cost)
 - Level of tree injury (preventive vs. curative)
 - Time of application (season)

SAFARI® ADVANTAGES

Because Safari is highly systemic, it penetrates the bark into the xylem when applied to the trunk and is then quickly transported upwards to where pests feed.

SAFARI DELIVERS

- Control of EAB adults and larvae + proven performance on other pests like scale
- Super-systemic activity = trees absorb faster and more efficiently compared to less soluble products
- Extended application window compared to less soluble products
- High maximum labeled use rate = improved control in large trees
- Provides control with only one application per year
- Unmatched speed, ease and flexibility of application
- Only active ingredient registered for EAB as a basal trunk spray

SAFARI BASAL TRUNK SPRAY

Safari is labeled for soil application as a drench, injection or dry granule. It is also labeled as a non-invasive basal trunk spray. With this method, Safari is sprayed on the lower 5 feet of trunk, penetrates through the bark into the tree's vascular system and is transported upward to where EAB feed. The basal trunk spray can be applied quickly, and calibration is simple. A basal trunk spray provides systemic EAB control like a soil application or trunk injection, but does not require invasive trunk injection or soil application.

SAFARI BASAL TRUNK SPRAY BENEFITS

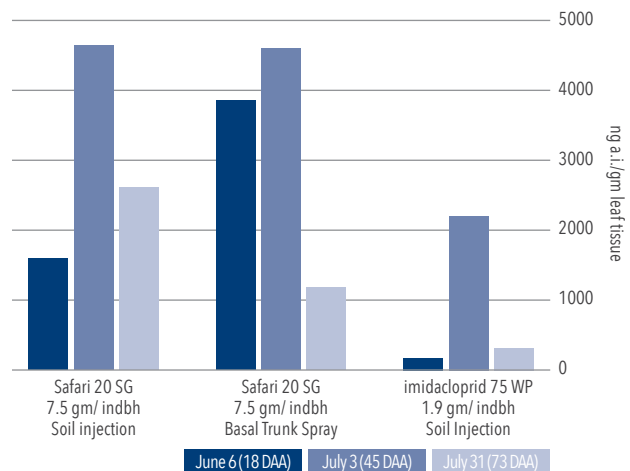
- Systemically controls EAB - demonstrated in university research trials
- Less expensive than trunk injected products
- Quick application - less than 2 minutes to treat one 10" DBH tree
- Predictable scheduling of labor (unlike trunk injection)
- Simple calibration - minimal applicator training
- Inexpensive application equipment
- Non-invasive - does not wound or injure trees
- Rapid control - 1-3 weeks for most pests
- Long-lasting control of EAB - one application per year



Safari Basal Trunk Spray

To view a demonstration video of the Safari basal trunk spray, visit [youtube.com/watch?v=P2GxLpTQ25k](https://www.youtube.com/watch?v=P2GxLpTQ25k)

SAFARI = MORE UPTAKE BY ASH TREES



Green Ash (11 - 23" DBH) - Lyn Rd., Bowling Green, OH
Source: Dr. Dan Herms (Ohio State University), Walter Albeldano (Valent U.S.A. Corporation)



www.nufarm.com/us

For specific application rates, directions, mixing instructions and precautions, read the product label. Please visit www.nufarm.com/us to download a full label.
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