

Giroud Fact Sheet: *Emerald Ash Borer*

I. Do You Have An Ash Tree?

Emerald Ash Borer has been confirmed in Warrington PA and is cause for alarm to any Philadelphia area homeowner, municipality, or business with Ash Trees. A deadly pest, Emerald Ash Borer has already killed over 50 million Ash Trees in 15 states since 2002. Treatment is available and has been proven to successfully control the pest and save trees. Learn more at www.giroudtree.com/emerald-ash-borer.



II. Emerald Ash Borer Kill Ash Trees

Emerald Ash Borer kill Ash Trees when larvae tunnel beneath the bark, stop food and water movement and starve the tree to death. Without treatment, 100% of the Ash Trees with Emerald Ash Borer will die within 3-5 years.

III. Treatment

By the time you see visible decline, Emerald Ash Borer has already done significant internal damage to the tree. Now that this deadly pest has been confirmed in our community, it's critical to start treatment to protect your valuable trees from invasion.

To be a good candidate for treatment, the Ash Tree must have at least 50% of its crown, meet minimum health standards and be able to absorb treatment.



Healthy ash tree protected with insecticide treatments growing next to an untreated Ash Tree killed by EAB.

Treatment options vary in performance and cost. In some cases, your ISA Certified Arborist may prescribe combining injection and spray treatments to increase the odds of success. Listed below in order of effectiveness, the treatments are:

1. **Systemic Trunk Injection:*** While it appears to be more costly compared to other options, trunk injection is actually the best value. In performance tests by the USDA, Michigan State and Ohio State Universities, researchers found that systemic trunk injections of TREE-age® with Emamectin Benzoate, killed the highest number of Emerald Ash Borer larvae. The tests showed that two years after the TREE-age® injection, there were still virtually no larvae in the treated trees, while adjacent, untreated trees had hundreds of larvae. TREE-age® should be applied every two years in early May to mid-June.
2. **Soil Injection/Soil Drench:*** Applied to the soil at the base of the tree, the insecticide, Merit® or Xytec® with Imidacloprid, is absorbed up through the canopy. Control has been inconsistent. Experience and research indicate that this treatment is most effective on smaller trees. The treatment must be applied annually in mid-late Spring or mid-Fall.
3. **Basal Trunk Sprays:*** As with soil treatments, control of Emerald Ash Borer with Dinotefuran basal trunk sprays has been variable in research trials. Dinotefuran was found to reduce EAB larval density by approximately 30 percent to 60 percent compared to heavily infested untreated trees. The treatment is effective for only one year and needs to be applied annually. In general, control is better and more consistent in smaller trees than large trees.
4. **Topical Cover Sprays:*** Studies at MSU have shown that applications of Tempo® or Sevin®SL provided good control, especially when the insecticides were applied in late May and again in early July when the adult Borer are feeding on the leaves.



Trunk injection is the most effective treatment for Emerald Ash Borer. The insecticide provides protection for two years.

*Based on: "Insecticide Options for Protecting Ash Trees from Emerald Ash Borer," North Central IPM Center Bulletin from cooperative research by Michigan State, Ohio State and Purdue Universities and the Universities of Illinois and Wisconsin. http://www.emeraldashborer.info/files/Multistate_EAB_Insecticide_Fact_Sheet.pdf

5. Action

Early detection is key to saving your Ash Trees. Property owners in the “*high risk zone*” shown below, need to:

- Have a comprehensive Ash Tree survey and health inspection by an ISA Certified Arborist.
- Ensure that the tree service company providing treatment has the qualifications and training required to provide the best protection for your trees.
- Determine which Ash Trees require treatment based on their value to your landscape.
- Identify trees of lesser value that may warrant a lower cost treatment or be left untreated. Untreated trees may require removal in the future.
- Work with your ISA Certified Arborist to develop a treatment protocol that matches the size, health and value of your Ash Trees.
- Begin treatment at the optimum time and continue treating each tree on the schedule prescribed by the type of treatment.
- Remove deadwood and promote healthy growth with regular pruning in combination with treatment.

High Risk Zone for Emerald Ash Borers

15 Mile Radius around Rt. 611 & Street Road in Warrington



**Schedule a free evaluation with
a Giroud ISA Certified Arborist!**

Call: 215-682-7704

Or, visit www.giroudtree.com/emerald-ash-borer.