

Treatment Options for Emerald Ash Borer



New Publication: PM 2084

- Recommended insecticides work best as preventive treatments for healthy ash trees planted along streets or in yard settings
- Treatment is not practical or cost effective for woodlot trees

Other control considerations...

1. Identify the target tree as ash
2. Set sentiment aside, then:
 - a. Judge health of tree
 - b. Assess landscape value
 - c. Determine cost/treatment X several years
3. Insecticide use every year for life of tree

Other control considerations...

4. Preventive treatments most effective
 - curative application may work if less than 40% canopy dieback



Other control considerations...

5. Preventive treatments are suggested when confirmed EAB is 15 miles away; treatments outside this risk zone are not recommended
6. Ash trees in an eradication area are subject to removal by regulators even if preventive treatments were made

EAB chemical control

- Systemic insecticides require time and active tree growth prior to adult EAB activity:
 - Soil treatments 4-8 weeks
 - trunk injections 2-4 weeks

Homeowner EAB control

- Imidacloprid 1.47%
- Up to 25" circumference/8" diameter tree
- Pull back mulch 12" from base of tree
- Soil drench / 'bucket method' on tree's root flare
- Early to mid-April every year

For trees larger than 8" diameter

- Treatment by commercial applicator
- Soil injection w/ imidacloprid
- Trunk spray w/ dinotefuran
- Trunk injection w/ imidacloprid, bidrin, or emamectin benzoate

What is Tree-age?

- Active ingredient emamectin benzoate
- Special local needs labels initially in EAB infested areas; new national label expected
- Only EAB treatment effective for more than one year (up to 3 years?)
- Must be injected into tree via 1/4 inch drilled holes; potential for injury to the tree

Canopy sprays not recommended

- Limited effectiveness
- Need for special equipment
- Spray drift likely
- Possible adverse effects to nontargets

Commercial application techniques

Soil injection from larger tank



Commercial application techniques



Mauget trunk injection



Kioritz soil injection

Commercial application techniques



Arborjet system



Wedgle method