

Thoughts on EAB control for homeowners

Home owner EAB control products are those containing imidacloprid. This information comes from EAB control studies and labels for 4 Bayer products. The Bonide Company has a Tree and Shrub Insect Control product with 1.47% imidacloprid. Most all of the research on EAB and its control comes from Michigan and Ohio. The thoughts for timing treatments in Ky are just suggestions at this point.

1) Bayer 12 Month Tree & Shrub Insect Control Concentrate (1.47% imidacloprid)

Apply 1 fl oz for each 1 inch of circumference around the ash tree in 1 gallon of water. Follow with one gallon of water. 1 application per year

2) Bayer 12 Month Tree & Shrub Insect Control II Concentrate (2.94% imidacloprid)

Apply 0.5 fl oz for each 1 inch of circumference around the ash tree in 1 gallon of water. Follow with one gallon of water. 1 application per year (The same amount of insecticide is applied but the rate is lower because the concentration of the formulation is 2x).

3) Bayer Advanced 12-Month Tree & Shrub Protect & Feed (1.47% imidacloprid) same treatment rate 2-1-1 fertilizer

This is essentially the same product as 1 except for the fertilizer present in the formulation. There is no indication that fertilizer enhances the uptake of the insecticide or increases its efficacy. However, this and the product below may be the only products available in some locations.

4) Bayer Advanced Tree & Shrub Protect & Feed Granules (1.1% imidacloprid)

Note: This product does not specifically list EAB. The other 3 products do list EAB. Apply ¼ cup product around tree trunk in a circle about 2 ft from trunk. Apply enough water to dissolve the granules and cause the soil to be wet to a depth of about 3 to 4 inches. This is not likely to be a good choice.

Timing suggestions probably will change based on research but for a start
Spring – Apply before mid- April for Kentucky

Fall - Research has shown that a fall drench (October) treatment has been effective against EAB for small trees further north. That is probably late for here. According to Ohio biology, EAB larvae begin to feed in late July. Most feeding and larval growth occurs from August thru October. People within or very near known infestations may want to apply a treatment July – August.

Uptake may require 1 to 4 weeks in trees < 20 inches in circumference and 2 to 3 months in larger trees. Insecticide cost will be about \$ 0.60 / inch of circumference. Annual treatment is recommended on the label.

Commercial Applicators – Arborist options

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| Soil drench – | (imidacloprid) Merit or Xytect |
| Trunk Injections | (imidacloprid) IMA-jet, Imicide, Pointer - early May to mid-June (bidrin) Inject-A-cide -- early May to mid-June |
| Systemic Bark Spray | (dinotefuran) Safari – now a federal label |

Note: TREE-age (emamectin benzoate) – Ky has applied for a state label but federal label is pending. Not yet labeled for KY.

