Research Notes



Control of Emerald Ash Borer with Mauget or Wedgle



Mauget Imicide[®] and Inject-a-cide[®] B Are More Effective Against Larvae and Adults

Research Facility & Trial Location

Deborah McCullough *et al* from Michigan State University and associates from the USDA evaluated trunk-injected imidacloprid and Bidrin insecticides for the control of Emerald Ash Borer (EAB) on trees in south-central Michigan.

Objectives

The study evaluated the ability of insecticides to control EAB adults and larvae.

Materials & Methods

Trees of similar size and condition at several different sites were randomly assigned to one of four treatment groups: untreated control, Mauget's Imicide® imidacloprid (10% active ingredient) capsules, ArborSystems' Pointer imidacloprid (12% active ingredient) using Wedgle injection system, or Mauget's Inject-a-cide® B Bidrin capsules applied in June, July or September. There were 6 to 12 trees per treatment at each site.





Control of Emerald Ash Borer with Mauget or Wedgle

Findings

Higher Amounts of Imidacloprid in Canopy with Imicide Imidacloprid concentrations peaked earlier and were higher in Imicide (10% active ingredient)-treated trees compared to trees injected with Pointer (12% active ingredient), 55 ppb vs. 37 ppb (Figure 1).

Highly Effective Control of Adult EAB with Inject-a-cide-B

Inject-a-cide B was highly effective for adult control for more than four weeks after injection. Twenty-three days after injection with Inject-a-cide B, 100% of the EAB beetles that consumed foliage from the treated trees had died after five days.

Greater Larvae Control with Mauget

At the various sites, Mauget's Immicide reduced EAB larvae density an average of 72%, while Pointer averaged 35% (Figure 2). Injection of Inject-a-cide B in June produced variable results, and injections in mid-July and September ranged from 73 to 82% control, respectively.

Conclusions

In this study, Mauget Imicide and Inject-a-cide B capsules were effective in controlling EAB adults and larvae. Data also indicated that the Mauget products outperformed the Wedgle Pointer.

Figure 1 Imidacloprid Peak Levels



Figure 2

Percent control of EAB Larvae 100 80 60 Percent 40 20 0 Imicide Pointer Inject-a-cide B Inject-a-cide B Inject-a-cide B (June) (July) (Sep) 70.0 Site 1 59.8 Site 2 Site 3 59.4 6.5 Site 4 95.7 39.3 53.4 73.2 Site 5 77.0 59.2 79.6 82.3 76.8

For more information or the full report of this study, call 800-TREES-Rx (800-873-3779) or visit www.mauget.com.