



BioForest Technologies Inc.
1.888.236.7378 • www.TreeAzin.com



03/07/2012

TREEAZIN^{SYSTEMIC INSECTICIDE™}

Trees Saving Trees



Contents



**You
Have a Choice
Do Not Delay**

TreeAzin SYSTEMIC INSECTICIDE™
Treated

**EAB
Infested**

Benefits of Trees	1
Emerald Ash Borer Facts	2
TreeAzin™ Systemic Insecticide: <i>Trees Saving Trees</i>	3
Having Your Tree Treated	4



Since 1996 BioForest Technologies Inc. has kept forests healthy with scientific and technical expertise. The company specializes in innovative product development and forest protection strategies.

TreeAzin™ Systemic Insecticide was developed for treating threatened trees in urban forests and environmentally sensitive areas.

Please visit TreeAzin.com to learn more about TreeAzin™ and how to protect your trees.

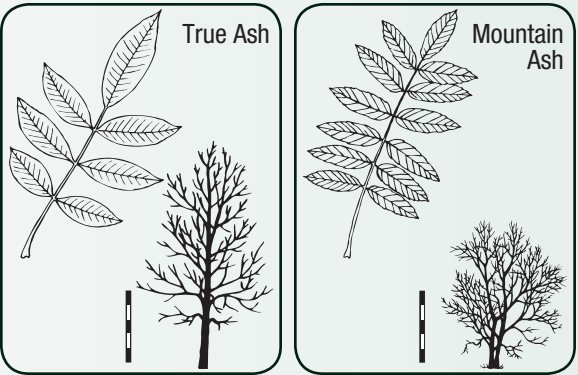
BioForest TECHNOLOGIES INC. **BioForest Technologies Inc.**
1.888.236.7378 • www.TreeAzin.com

Having Your Tree Treated

- TreeAzin™ can **only** be injected by licensed pesticide applicators
- **Do Not Delay** – have your Ash tree assessed by a qualified service provider as soon as possible
- Visit **TreeAzin.com** to find an up-to-date list of qualified service providers in your region
- Obtain **multiple quotes** as service providers set their own prices and may work outside of their local areas
- Follow these **3 simple steps** before contacting service providers for quotes

STEP 1: Confirm your tree is a True Ash

- EAB only attacks and kills True Ash trees
- Mountain Ash trees are not True Ash trees
- True Ash:
 - Medium to large trees
 - Compound leaves, typically having 7 to 9 leaflets
 - Paddle-shaped seeds
- Mountain Ash:
 - Small trees or bushes
 - Compound leaves, typically having 13 to 17 leaflets
 - Clusters of red berries in Fall



STEP 2: Determine your tree size

- Using a measuring tape, measure the circumference of the main trunk in inches at chest height
[chest height is 4.5 feet above ground]
- To calculate your tree's diameter in centimeters, multiply your tree's circumference in inches by 0.81

Tree circumference (inches)

×

0.81

Conversion factor

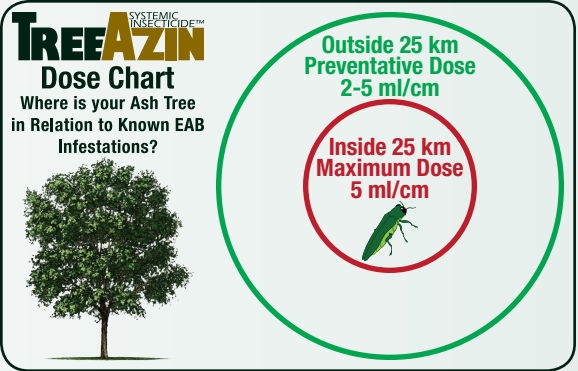
=

Tree diameter (cm)



STEP 3: Know the recommended TreeAzin™ dose

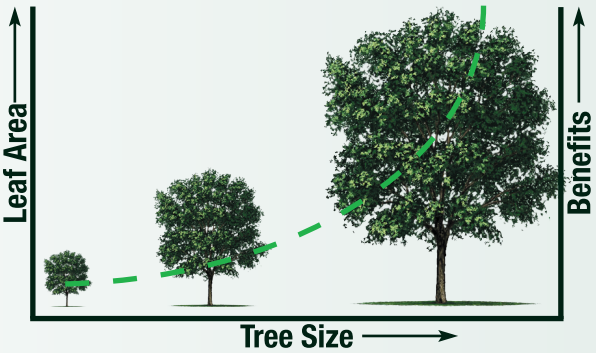
- Your Ash tree may already be infested, even if EAB signs and symptoms are **not** evident
- If your Ash tree is within 25 km of a known EAB infestation, begin treatment immediately at the **maximum TreeAzin™ dose** (5 ml/cm tree diameter)
- If your Ash tree is greater than 25 km from a known EAB infestation, a **preventative TreeAzin™ dose** may be recommended (2-5 ml/cm tree diameter)
- Contact the Canadian Food Inspection Agency (CFIA) to learn where EAB has been found (inspection.gc.ca)



Benefits of Trees

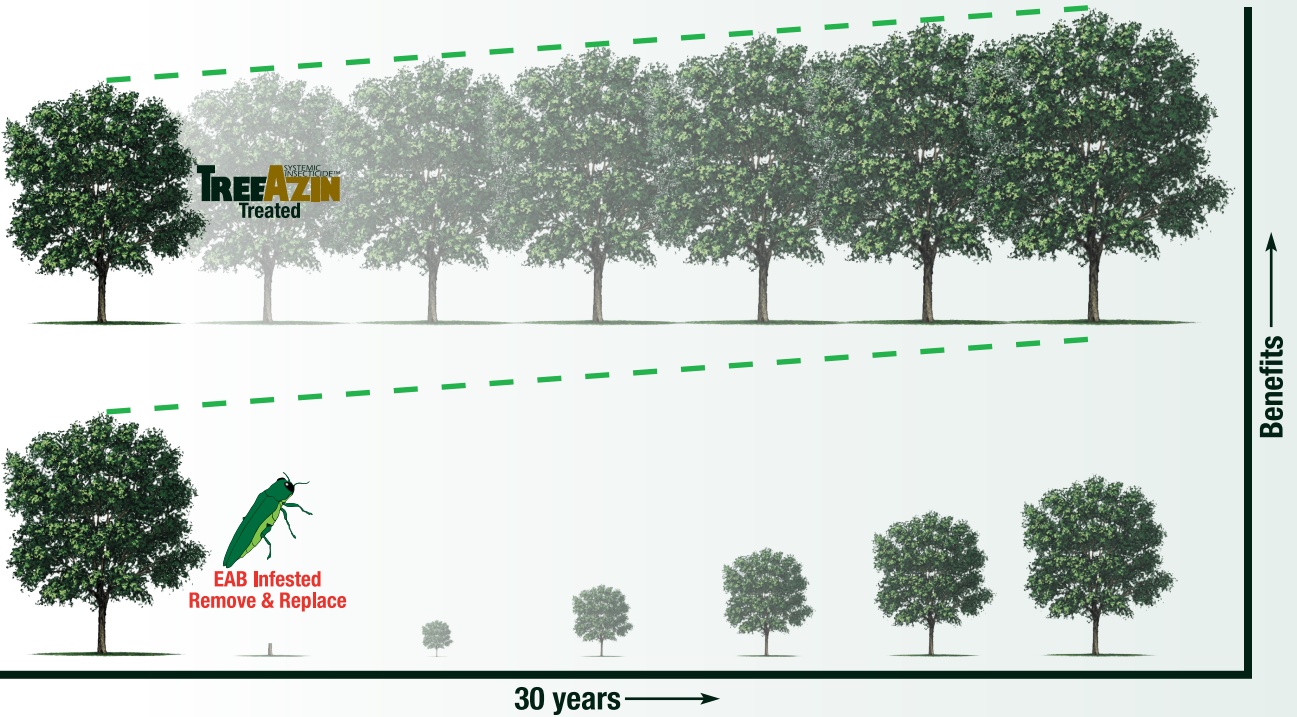
A Large Urban Tree:

- Increases property value significantly
- Acts as a windbreak, reducing heating costs
- Provides shade, reducing cooling costs
- Absorbs rainwater, reducing runoff
- Cleans carbon dioxide and other pollutants from the atmosphere
- Reduces noise pollution
- Adds beauty and grace to any neighborhood



TreeAzin™ Treatment vs. Removal & Replacement

- Emerald Ash Borer (EAB) is a **non-native** pest that attacks and kills all species of True Ash, not Mountain Ash
- TreeAzin™ Systemic Insecticide is the **only effective** product for EAB control in Ontario and Quebec (PCP no. 28929)
- TreeAzin™ treatment almost always costs less than tree removal, disposal, and replanting
- Newly planted trees take 30 years to begin providing maximum benefits to the urban forest



WARNING: Even a healthy looking Ash tree may be infested with EAB

Emerald Ash Borer Facts

Emerald Ash Borer (EAB)

- **Non-native** pest, discovered in 2002 in Detroit & Windsor areas
- Attacks all species of True Ash, not Mountain Ash
- Kills True Ash of any size or age, even healthy trees
- **Beetles** feed on leaves from June to August
- **Larvae** feed on inner bark, cutting off water and nutrient flow
- Spreads naturally and by people moving Ash firewood, trees, or wood with bark attached



EAB beetle



EAB larva

Emerald Ash Borer Signs and Symptoms

EAB infested Ash trees may not initially show signs or symptoms of attack

- Tree **crown thins** until bare
- **Shoots grow** from roots and trunk
- **Bark splits** creating vertical cracks
- EAB beetles emerge, forming **D-shaped exit holes**
- Larvae form **S-shaped feeding galleries**
- **Woodpecker feeding** activity increases, creating large holes



Crown thinning



Trunk shoots



Bark splits



D-shaped exit holes



S-shaped galleries



Woodpecker feeding

Emerald Ash Borer Protection

- TreeAzin™ Systemic Insecticide is the **only effective** product for EAB control in Ontario and Québec (PCP no. 28929)
- TreeAzin™ can prevent EAB damage in healthy Ash trees and prevent further damage in attacked Ash trees, if damage is not yet too severe
- Ash trees may already be infested, even if EAB signs and symptoms are **not** evident
- If your Ash tree is within 25 km of a known EAB infestation, TreeAzin™ should be applied at the **maximum dose**
- **Do Not Delay** – have your Ash tree assessed by a qualified service provider as soon as possible
- Visit TreeAzin.com for a list of qualified service providers
- Treating an Ash tree with TreeAzin™ significantly improves its chance of survival – an untreated Ash will almost certainly die

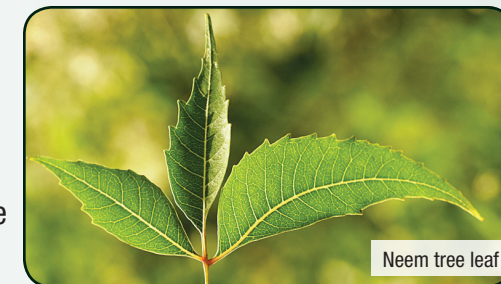


TREEAZIN^{SYSTEMIC INSECTICIDE™}

Trees Saving Trees

An Insecticide to Control Emerald Ash Borer

- Developed by the Canadian Forest Service in collaboration with BioForest Technologies Inc.
- Produced in Canada from Neem tree seed extracts
- Must be injected directly into the tree by licensed pesticide applicators between mid May and the end of August
- Scheduled as a “Less or Least Hazardous” commercial pesticide by the Ontario Ministry of Environment (MOE)
- Registered as a bioinsecticide by the Environmental Protection Agency (EPA) in the U.S.
- Listed for use in organic crops by the Organic Materials Review Institute (OMRI)



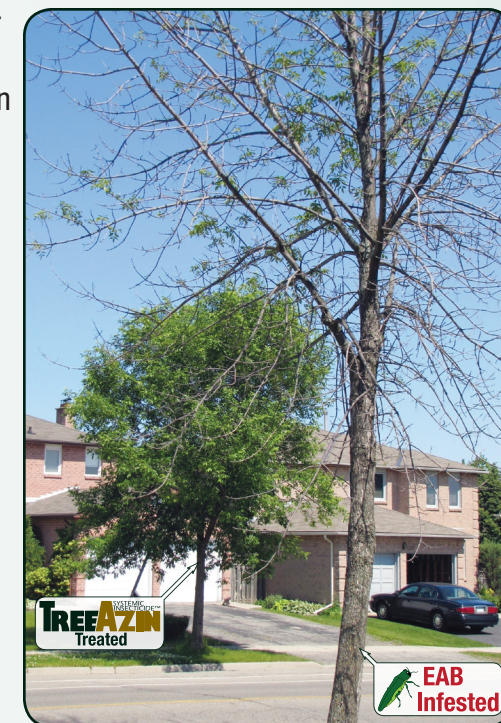
Neem tree leaf



TreeAzin™ injected directly into an Ash tree

Effectiveness and Safety

- TreeAzin™ Systemic Insecticide is the **only effective** product for EAB control in Ontario and Québec (PCP no. 28929)
- TreeAzin™ is taken-up rapidly throughout the tree and remains in the tree at effective levels throughout the summer
- TreeAzin™ provides **2 years protection** against EAB*
- When applied at **maximum dose**, TreeAzin™:
 - kills greater than 95% of EAB larvae
 - significantly reduces the number of eggs laid and most eggs laid are not viable
- When used as labeled, TreeAzin™:
 - **degrades naturally** within tree tissues
 - **does not** pose any health risks to applicators, bystanders, pets or the environment
 - **does not** pose any risk to bees, birds or mammals
 - **does not** impact soil or aquatic ecosystems following leaf fall



* 2-year protection may depend on tree health and EAB populations at the time of injection