

## **Problem Statement:**

Emerald Ash Borer (EAB) has been found deteriorating Ash trees in Boulder, Colorado on September 23, 2013. Soon after, relatively healthy looking Ash trees were found on the CU campus, and three other areas of Boulder. This exotic beetle's larvae feed on the cambium of the trees and disrupt the transportation of water and nutrients to the crown of the tree, causing death. This pest only attacks Ash trees, including Green and White (Autumn Purple). No other species of tree are attacked. Colorado nurseries' have been stocking Ash trees in large quantities over the past twenty years due to their low cost, lack of natural pests, and ability to quickly grow into a shade tree.

Although the pest has not been found outside the Boulder city limits, historical data from the mid-west indicates it could be anywhere along the front range of Colorado today. Since the September discovery, communities in Adams, Boulder, Denver, Jefferson and Larimer counties have begun surveys to identify other pest locations.

Edgewater currently has three-hundred forty-seven documented Ash trees in public right of way and private front yard areas. In order to properly plan for the treatment and removal of all Ash trees, the City of Edgewater has developed this formal plan to take proactive measures in sustaining the species throughout the City. This plan is based on a coordinated sharing of knowledge and experiences from those communities along the great lakes that were first attacked, scientists, federal and state regulators, along with municipal arborists and green industry members.

***NOTE: All information in this document is based on knowledge gathered at the time of presentation. Changes can be expected and council will be kept up to date on a regular basis.***

## **History**

Emerald Ash Borer (EAB), *Agrilus planipennis* Fairmaire, is an ~~exotic~~ beetle exotic to the United States, naturally originating from Asia. The adult beetles lay very small eggs in the crevices of the bark of Ash trees. From these eggs the larvae make their way into the inner bark of the tree and bore tunnels under the bark. These tunnels disrupt the trees ability to carry water and nutrients between the leaves and the roots of the tree. The larvae exit the tree and feed on the trees leaves. Then the cycle starts all over every year. The trails end up killing the trees from the inside over time. Research has shown that a tree may be infested three to four years before outward signs are visible to the trained eye. (The first tree in Boulder was infested four and one-half years before identification)

The EAB has been thought to have arrived on United States soil in the 1990's, making its way via wood shipping containers along the Great Lakes from Asia. The EAB was first discovered in the United States in 2002 in southeastern Michigan near Detroit. Since this initial finding EAB has been found in Ohio in 2003, northern Indiana in 2004, northern



Illinois and Maryland in 2006, western Pennsylvania and West Virginia in the summer of 2008, Minnesota, New York, Kentucky in the spring of 2010, Tennessee in the summer of 2010, Connecticut, Kansas and Massachusetts in the summer of 2012, New Hampshire in the spring of 2013, North Carolina and Georgia in the summer of 2013, and Colorado in the fall of 2013. Since the adult insect can only fly less than five hundred yards, it is thought that it traveled the six hundred and fifty miles from Kansas to Boulder in firewood. The EAB has killed tens of millions of Ash trees in Michigan alone with tens of millions lost in the other states combined.

The biggest issue with stopping the spread of EAB is the inability to find the insect before it has already spread through populations of Ash trees in an area. The canopy dieback does not show for a number of years (estimated at least two) after the insect establishes itself in a tree. This means by the time it has been detected the insect has most likely spread through many other Ash trees in the area and expanded the area of infestation. Currently, municipalities have found some benefit with proactively looking for the larvae of the beetle before the signs show in the trees. The most widely used process is taking branch samples from Ash trees, shaving off the bark and looking for the serpentine galleries left by the larvae.

There have been significant benefits proven by pre-infestation chemical treatments. There are a number of options on the market at this time for chemically treating high value Ash trees. Most of these treatments require a professional application while others can be applied by the homeowner. Once treatment begins, the tree needs to be treated for the remainder of its life. Not all trees can be treated, depending on condition, past mechanical damage and location. The cost of these treatments over the life of the tree may outweigh the costs of removal of the tree.

At this time there are five (5) different treatment methods on the market; soil injection, trunk injection, systematic bark spray, preventative bark and foliage cover spray and soil drench methods. The majority of the treatment options require a yearly treatment. The trunk injection methods have proven to be effective for two years, making treatment less expensive over time.

## **Treatment Options**

The North American spread of EAB has brought several insecticide treatments options to tree owners. Insects such as EAB that feed under the bark have proved to be very hard to control. The chemical insecticides and the different application techniques attack different life stages of the insect. One can expect some damage following applications.

Three application methods have been found to have success in the management of the beetle among Ash trees. These treatment options are preventative options aimed at halting the spread of the beetle through Ash species. Once a tree does have the EAB present the insecticides will only prevent further damage but not save the entire tree.



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Some of the insecticides are from a family of Neonicitoides that have been linked to bee kills. Ash trees are wind pollinated and do not serve as a host for honeybees gathering pollen. However, trunk and foliar sprays may kill honeybees following contact with the chemical. Care should also be noted for flowering understory plants that may also pick up the chemical from soil drenches and injections.

*Below is a table that lists the options for insecticides currently on the market.*

Formula	Active Ingredient	Application Method	Recommended Timing
<b>Professional Use Products</b>			
Merit ® (75WP, 75WSP, 2F)	Imidacloprid	Soil Injection. Drench	Mid-fall and/or mid-to late spring
Xytect™ (2F, 75WSP)	Imidacloprid	Soil Injection. Drench	Mid-fall and/or mid-to late spring
IMA-jet ®	Imidacloprid	Trunk injection	Early May to Mid- June
Imicide ®	Imidacloprid	Trunk injection	Early May to Mid- June
TREE-äge™	Imidacloprid	Trunk injection	Early May to Mid- June
Inject-A-Cide B ®	Imidacloprid	Trunk injection	Early May to Mid- June
Safari™ (20 SG)	Dinotefuran	Systematic bark spray	Early May to Mid-June
Astro ®	Permethrin	Bark & Foliage spray	Early May – Early June
Onyx™	Bifenthrin	Bark & Foliage spray	Early May – Early June
Tempo ®	Cyfluthrin	Bark & Foliage spray	Early May – Early June
Sevin ® SL	Carbaryl	Bark & Foliage spray	Early May – Early June
<b>Homeowner Formulas</b>			
Bayer Advanced™	Imidacloprid	Soil Drench	Mid- fall or mid to late spring

\*Taken from “*Insecticide Option for Protecting Ash Trees from Emerald Ash Borer*”, by Daniel A. Herms, Deborah G. McCullough, David R. Smitley, Clifford S. Sadof, R. Chris Williamson and Phillip L. Nixon.; North IPM Center

*Below is a brief table of the pros and cons of the different application methods listed above.*

Application Method	Pro	Con	
Soil Injection	<ul style="list-style-type: none"> <li>Minimized excess run-off.</li> <li>Direct contact with root system.</li> </ul>	<ul style="list-style-type: none"> <li>Soil injection equipment</li> <li>Uptake may be slow.</li> <li>Dilution in soil.</li> <li>Compaction issues.</li> </ul>	•
Drench	<ul style="list-style-type: none"> <li>No equipment.</li> </ul>	<ul style="list-style-type: none"> <li>Run-off.</li> <li>Bind to other plant and landscape material.</li> <li>Dilution.</li> </ul>	•
Trunk Injection	<ul style="list-style-type: none"> <li>Good uptake.</li> <li>No dilution from wet areas.</li> <li>2 year treatment.</li> </ul>	<ul style="list-style-type: none"> <li>Cause tree wounds.</li> <li>Equipment needs.</li> </ul>	•
Trunk Sprays	<ul style="list-style-type: none"> <li>Quick and easy to apply.</li> <li>No wounds.</li> </ul>	<ul style="list-style-type: none"> <li>Not always absorbed.</li> <li>Time for absorption.</li> <li>Wasted material.</li> </ul>	•



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Canopy Spray	<ul style="list-style-type: none"> <li>• Quick and easy to apply.</li> <li>• No wounds.</li> </ul>	<ul style="list-style-type: none"> <li>• Multiple applications.</li> <li>• Only prevents entrance.</li> <li>• Wasted material.</li> <li>• Multiple applications.</li> </ul>	•
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**Tree Asset Values/ Costs**

Due to some of the age and size of the Ash trees in Edgewater we have established an asset value to protecting the species from death. These tree values are estimated using the National Tree Benefit Calculator on a yearly basis. This data was collected as part of the Canopy Survey conducted by Dr. Larry McPherson of the University of California and contracted by the Mile High Million Tree program for the six county Denver-metro area. The cost estimates were provided by contractors for removal and treatment. This list does not include the costs associated with new tree planting.

Size	Stormwater	Electricity	Air Quality	Property Value	Natural Gas	CO2	<i><b>Total</b></i>	Removal Cost	Treatment Costs
7	6.74	2.74	0.89	120.14	4.47	1.38	<b>\$ 136.00</b>	(\$211.05)	(\$28.00)
8	8.19	3.35	1.10	134.22	5.46	1.67	<b>\$ 154.00</b>	(\$241.20)	(\$32.00)
9	9.64	3.96	1.31	148.30	6.46	1.96	<b>\$ 172.00</b>	(\$271.35)	(\$36.00)
10	11.26	4.86	1.72	154.33	7.48	2.35	<b>\$ 182.00</b>	(\$301.50)	(\$40.00)
11	12.88	5.75	2.12	160.37	8.50	2.75	<b>\$ 192.00</b>	(\$331.65)	(\$44.00)
12	14.50	6.64	2.52	166.41	9.51	3.15	<b>\$ 203.00</b>	(\$361.80)	(\$48.00)
13	16.12	7.53	2.93	172.44	10.53	3.54	<b>\$ 213.00</b>	(\$391.95)	(\$52.00)
14	17.74	8.42	3.33	178.48	11.55	3.94	<b>\$ 223.00</b>	(\$422.10)	(\$56.00)
15	19.36	9.31	3.74	184.52	12.57	4.34	<b>\$ 234.00</b>	(\$452.25)	(\$60.00)
16	20.95	9.96	4.18	184.03	13.26	4.64	<b>\$ 237.00</b>	(\$482.40)	(\$64.00)
17	22.53	10.61	4.63	183.55	13.96	4.93	<b>\$ 240.00</b>	(\$512.55)	(\$68.00)
18	24.12	11.26	5.07	183.06	14.65	5.23	<b>\$ 243.00</b>	(\$542.70)	(\$72.00)
19	25.70	11.90	5.51	182.58	15.35	5.53	<b>\$ 247.00</b>	(\$572.85)	(\$76.00)
20	27.29	12.55	5.96	182.09	16.04	5.83	<b>\$ 250.00</b>	(\$603.00)	(\$80.00)
21	28.88	13.20	6.40	181.61	16.74	6.13	<b>\$ 253.00</b>	(\$633.15)	(\$84.00)
22	30.45	13.79	6.80	176.00	17.12	6.36	<b>\$ 251.00</b>	(\$663.30)	(\$88.00)
23	32.01	14.38	7.20	170.38	17.50	6.60	<b>\$ 248.00</b>	(\$693.45)	(\$92.00)
24	33.58	147.97	7.60	164.77	17.88	6.84	<b>\$ 246.00</b>	(\$723.60)	(\$96.00)
25	35.12	15.57	8.00	159.16	18.26	7.08	<b>\$ 243.00</b>	(\$753.75)	(\$100.00)
26	36.72	16.16	8.40	153.55	18.64	7.31	<b>\$ 241.00</b>	(\$783.90)	(\$104.00)
27	38.28	16.75	8.80	147.94	19.02	7.55	<b>\$ 238.00</b>	(\$814.05)	(\$108.00)
28	39.77	17.19	9.18	138.80	19.15	7.66	<b>\$ 232.00</b>	(\$844.20)	(\$112.00)
29	41.25	17.63	9.55	129.65	19.29	7.78	<b>\$ 225.00</b>	(\$874.35)	(\$116.00)
30	42.74	18.07	9.93	120.50	19.43	7.89	<b>\$ 219.00</b>	(\$904.50)	(\$120.00)
40	56.96	18.56	10.83	00.01	18.77	3.66	<b>\$ 109.00</b>	(\$1,206.00)	(\$160.00)



## **Management Plan**

To prepare for this plan, members of the City staff have worked with members of the following agencies and groups:

- Colorado State University
- Animal and Plant Health Inspection Service (APHIS)
- Colorado Department of Agriculture
- Emerging Pests in Colorado (EPIC)
- Colorado Tree Coalition
- International Society of Arboriculture
- Colorado Nursery and Greenhouse Association
- Colorado State Forest Service
- United States Forest Service
- Canadian Forest Service
- Various land grant universities in the mid-west
- Various Communities and City Foresters in the mid-west

This management plan is based on the available information available at the time of publication. Monthly updates are available through the Colorado Department of Agriculture and this document will be updated as warranted.

There are five (5) options with developing a management plan for EAB; let the insect infest the Ash trees slowly killing off the species, preemptive removal of all Ash trees, preemptive removal & replacement of all Ash trees and treatment of Ash trees, treatment of all trees in area, or a combination of each. Each of these options have some benefits and also some issues.

The first method of leaving the trees alone means the entire Ash population will be killed off over time. This makes it hard to plan for when all the removal costs will need to be funded. The initial costs of letting the trees die out is nothing, but the end cost is very expensive for all the removals in a short period of time. By taking this management practice a municipality loses some of the more established trees whose benefits cannot be readily replaced.

The second method is to schedule preemptive removals of all Ash species. Although a proven method to stopping EAB, the up-front costs of removals could be very significant. Again the municipality would lose some of the more established trees in the urban forest and replacing the values that those trees bring would be near impossible.

The third method is to preemptively remove and replace all Ash trees. Again, this will eradicate EAB from the community but will have significant up-front costs as well as losing well established trees and replacing them with smaller under developed trees. The



loss of value in the established trees will not be quickly made back by the new trees and there long term costs to grow.

The fourth method is to treat all Ash trees. There will still be some loss of Ash trees to EAB with treatments but the loss will be minimized. Also, there will be consistent yearly costs for the treatment option. At this time, there is no “cure” for this insect, and treatment will need to go on for the life of the tree.

The fifth is a combination of the other four methods. It includes removal of a percentage of the smaller diameter trees, identification and treatment of desirable trees and temporary treatment of remaining trees to extend the life for budgetary purposes, slating removal when funds allow.

On the next page is a basic projection of values (from the table on the previous page) and estimates for expenses for the various treatment options. This table utilizes the actual data gathered from the Edgewater inventory of Ash trees in Public Right of Way (PROW). The Ash Tree count is 120 with various trunk sizes totaling 1,141 inches (118 trees between the size of 3”-29”).



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Year	Leave Alone		Removal		Remove & Replace		Treatment		Treatment & Removal	
	Value	Expe.	Value	Expe.	Value	Expe.	Value	Expe.	Value	Expe.
1	\$ 19,351	\$ -	\$ -	\$ (129,275)	\$ -	\$ (115,115)	\$ 19,351	\$ (9,128)	\$ 19,351	\$ (19,292)
2	\$ 15,481	\$ (25,855)	\$ -	\$ -	\$ 7,434	\$ -	\$ 18,964	\$ (8,945)	\$ 16,379	\$ (3,284)
3	\$ 7,740	\$ (51,710)	\$ -	\$ -	\$ 7,434	\$ -	\$ 18,585	\$ (8,763)	\$ 16,379	\$ (482)
4	\$ 3,870	\$ (51,710)	\$ -	\$ -	\$ 7,435	\$ -	\$ 18,213	\$ (8,580)	\$ 16,380	\$ (3,766)
5	\$ -		\$ -	\$ -	\$ 7,436	\$ -	\$ 17,849	\$ (8,398)	\$ 16,381	\$ (482)
6	\$ -		\$ -	\$ -	\$ 7,437	\$ -	\$ 17,492	\$ (8,215)	\$ 16,382	\$ (3,736)
7	\$ -		\$ -	\$ -	\$ 7,438	\$ -	\$ 17,142	\$ (8,033)	\$ 16,383	\$ (452)
8	\$ -		\$ -	\$ -	\$ 7,440	\$ -	\$ 16,799	\$ (7,850)	\$ 16,385	\$ (3,736)
9	\$ -		\$ -	\$ -	\$ 7,441	\$ -	\$ 16,463	\$ (7,668)	\$ 16,386	\$ (422)
10	\$ -		\$ -	\$ -	\$ 7,443	\$ -	\$ 16,134	\$ (7,485)	\$ 16,388	\$ (3,706)
11	\$ -		\$ -	\$ -	\$ 7,680	\$ -	\$ 15,811	\$ (7,302)	\$ 16,391	\$ (422)
12	\$ -		\$ -	\$ -	\$ 7,682	\$ -	\$ 15,495	\$ (7,120)	\$ 16,393	\$ (3,706)
13	\$ -		\$ -	\$ -	\$ 7,685	\$ -	\$ 15,185	\$ (6,937)	\$ 16,396	\$ (392)
14	\$ -		\$ -	\$ -	\$ 7,688	\$ -	\$ 14,881	\$ (6,755)	\$ 16,399	\$ (3,676)
15	\$ -		\$ -	\$ -	\$ 7,692	\$ -	\$ 14,584	\$ (6,572)	\$ 16,403	\$ (392)
<b>Total</b>	<b>\$ 46,442</b>	<b>\$ (129,275)</b>	<b>\$ -</b>	<b>\$ (129,275)</b>	<b>\$ 105,365</b>	<b>\$ (115,115)</b>	<b>\$ 252,947</b>	<b>\$ (117,751)</b>	<b>\$ 248,776</b>	<b>\$ (47,948)</b>
	\$	(82,833)	\$	(129,275)	\$	(9,750)	\$	135,196	\$	200,828

*Remove & Replace uses a 26% growth factor with new trees.*

*Treatment & Removal uses a 26% growth factor with new trees and a 2% death factor with treatment.*



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This plan is developed using a mixed approach to the methods mentioned above. Mixing preemptive removal and replacement with treatment, the City of Edgewater can extend the life of the more established trees, while replacing smaller Ash trees that treatments would not be cost effective to retaining.

## **Management Plan Timeline**

In order to initiate this management plan we have set a few benchmark dates to help develop and finalize the plan. Below is a brief description of important dates as the plan works through approval.

April 10 <sup>th</sup>	Draft Plan presentation	Tree Board
May 8 <sup>th</sup>	Revised Draft Presentation	Tree Board
May 15 <sup>th</sup>	Draft Plan Presentation	City Council
May 21 <sup>st</sup>	Draft Plan Presentation	P&Z Commission
June 5 <sup>th</sup>	Plan Adoption	City Council
July 1 <sup>st</sup>	Initial Plan Year Start 1 <sup>st</sup> Public Meeting	
September 1 <sup>st</sup>	Start Green Threat Level	

## **Tree Locations**

There are four primarily locations that we will detail in this plan:

**Public Right of Way Trees (PROWT)** – These are trees that are located within the public right-of-way areas, either between the sidewalk and the street or within the first six (6) feet of the curb line (for streets that have Hollywood curb and gutter).

**City Property Trees (CPT)**- These are trees located in City owned properties such as parks or facilities. These trees have to be inside the property in relation to the PROWT line.

**Private Viewable Trees (PFYT)**- These trees are trees that can be viewed from public right-of-way, mostly in front or side yards.

**Private Un-viewable Trees (PUVT)**- These are trees on private property and not viewable from public right-of-way.

## **Ash Trees on Private Property**

This plan details steps to be taken for all Ash trees that are located on public property. It is the plans intention to extend the same expectations and timelines to trees found on private property with costs being covered by the property owners. Property owners will be able to utilize the City contractors to provide the same services prescribed within this plan for their Ash trees, at their own expense. A financing option will be discussed in the Initial Year section.

## **Levels of Threat**



city of  
**edgewater**

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The EAB could be found at any time in Edgewater or locations close to Edgewater that could cause the City of Edgewater to increase their methods of treatment and or removals. To help better establish the different levels of threat from the EAB we have set four different colors that will each signify a threat level. Below is a brief description of each of the levels.

1. **Green**- The Green level is the initial level of threat. This level is put into effect when the EAB larvae have been found within the state of Colorado. This is the first level in this action plan and is where we are starting from.
2. **Yellow**- Yellow level is the next threat level. This level is started when EAB is found within ten (10) miles of Edgewater. Because we know that the EAB can easily travel this level is indicating the close proximity to the City of Edgewater.
3. **Orange**- The Orange threat level is initiated when EAB is found within five (5) miles of the City of Edgewater.
4. **Red**- Red level is the final level of threat and is used for when we have at least one case of EAB within the City limits of Edgewater.

## **Initial Plan Year: 2014**

Although, you will find we are already in the Green level of threat currently, there are a few items that need to be taken care of in the on-set of this plan. The following items are highly recommended as they build a base level to start the plan and change at the different threat levels described in detail below.

### **Utility Bill EAB Plan Information Flier**

To make everyone aware of the plan and the different threat levels, a utility bill insert will be mailed out. The flier will identify the problem and detail how the City will progress through the approved plan. The only cost involved will be the cost of printing and inserting the flier into the utility bill. The flier will also be distributed through the Town Crier and posted on the city's web site.

### **Emerald Ash Borer Education Page**

As we start to get information out we will be adding a page on the City website for the Emerald Ash Borer. This page will give some historical information on the insect as well as information based new updates on the progression of the insect through Colorado. There would be no real additional cost for the addition of this page.

### **Public Right of Way Ash Tree Identification**

In the initial months after this plan goes into effect the City of Edgewater will need to mark each tree with an identifying plaque of some sort. This identification method will not only help us keep track of the tree but also help the public understand where these trees are located and assist with the visual monitoring of the tree's health. The plaque will be a small plaque that will identify the tree as an Edgewater Ash tree with an individual inventory tree number. The plaque will also include a QR code that is linked with the Emerald Ash Borer education page of the City website. The cost of the plaque and the time to install is listed on the initial year budget set forth below.

### **Resident Ash Tree Identification**

This would be to offer the same plaques to privately owned trees if the owner would be interested. These plaques would be at the cost of the tree owner but City will order and install. The City installation costs are detailed below in the initial year budget. This would also help us get onto private property and identify tree species for the City Tree Inventory.

### **Policy Changes**

As we enter into the different threat levels we need to look at updating a few of our regulations on tree removals. There are two major reasons we need to update regulations to help us better manage the Emerald Ash Borer. The first reason is to track the disposal of tree material. As we move into the next few threat levels it will become increasingly important to know where contractors and home owners are disposing tree materials,



including all parts of the Ash tree as mandated by state and federal regulators. The Emerald Ash Borer flies from tree to tree so if the tree materials are not disposed of correctly, the insect could infect more trees in the immediate area. There will be a threat level where there is a quarantine put into place by the county (if not the state), but we need a way to track and manage this through our processes. The second reason to update current regulations is to start to inventory trees on private property. If a contractor is going on to a property to prune a tree it would be ideal for the City to know the species of tree and its approximate location. If future insect and/or diseases on other species trees show up in Edgewater, it would be helpful to know what and where we have a species. We recommend changing the current regulations to require a permit for removal and maintenance of trees in Edgewater. This regulation is common with other cities in Colorado who have a tree ordinance.

Another policy change that needs to be considered is to add some regulations to the spacing of trees being planted in public right of way. Currently the City of Edgewater allows public right of way trees to be planted with less than 4 ft. (or smaller) of space between the tree and a sidewalk or street. This tends to cause root problems that affect the sidewalk or street if not the tree. Our City Arborist would recommend a change to our current code to not allow any planting within any area less than 5 ft. and any planting within 5 ft. of any sidewalk for Hollywood curb style sidewalks.

### **Financial Resources for Edgewater Property Owners**

The infestation of EAB will not only affect City owned trees, will also affect the large population of privately owned Ash trees in Edgewater. At the on-set of this plan Edgewater needs to develop a plan to assist property owners with the removal and or treatment costs of trees on private property.

The City of Edgewater has provided financing on past large item projects, where costs were passed on to the property owner (meter replacements & sewer line replacements). The financing has typically been an eighteen month payment plan of the costs of the service plus a small administrative fee (\$100 for sewer line replacements) automatically added to the resident's utility bill. Staff would recommend to extent this financing option to tree work provided by the City contractor on private Ash trees, with property owners that apply for financial assistance. This financing mechanism will not only help the property owners but will also provide scheduled treatments through the City contractor to better manage the Ash trees on private property.

### **GIS Mapping**

The City Arborist has completed a thorough survey of all Public right of way, City property and Private viewable Ash trees in Edgewater. We would like to take this information and overlay it on our City GIS map so staff and residents can better identify the locations of each of the trees. The cost of this is paying a GIS consultant to overlay the inventory list on our mapping system.



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<b>Initial Year Budget</b>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Print & insert flier	1,650 Inserts Double Sided (Eng./ Span.)	\$690.00
Ash Tree Plaque	118 Plaques for PROW (\$25/ each)	\$2,950.00
Plaque Installation	60 Hours for Installation @ \$17/ Hr.	\$1,020.00
Private Plaque Installation	40 Hours for Installation @ \$17/ Hr.	\$680.00
Policy Changes	Staff time and Attorney Fees	\$500.00
<b><i>Total</i></b>		<b><i>\$5,840.00</i></b>

## **Threat Level: Green**

### **Education and Public & Media Outreach**

**Threat level notification-** The City will mail out threat level update to let residents know the current threat level of the EAB. These mailing will be sent to all physical addresses in Edgewater. Notifications will also be sent to all media listed on the current media outreach list. As well as posted on the City website and sent through the Town Crier. These notifications will include all other publicity listed below.

**Direct Mailing-** the City will mail all property owners with known Ash trees inventoried on their property or in the PROW abutting their property. These letters will explain the plan and identify the plaques attached to the trees. The letter will also inform the property owner of any removal scheduled throughout this threat levels (for smaller trees).

**Site Visits-** the City Arborist, Code Enforcement Officer, Recreation Manager and the Community Service Director will manage a schedule of site visits, to properties located in Edgewater, for Ash tree identification. These site visits will be publicized on all material being sent out.

**Website-** A section will be added to the EAB page stressing the importance of identification of private Ash trees.

**Public Meeting-** the City Arborist will host a minimum of one (1) public meeting each year Edgewater is in this threat level. The meetings will be utilized for information sharing and to update the public on what should be expected under the current threat level.

**Tree Board Outreach-** The Tree Board will split the City up into sections and each board member will be assigned to a section to canvas and provide informational brochures.

### **Monitoring and Inspections**

All inventoried Ash trees will be inspected bimonthly by the City Arborist. Any branch samples submitted by contractors through the permit system will be de-barked and inspected for EAB by the City Arborist or other City staff trained for this specialization process.

### **Wood Disposal & Utilization**

The City of Edgewater will require all Ash tree materials to be taken to the landfill in Jefferson County (already in the quarantine area). The City will also require one branch from each Ash tree that is pruned or removed. These branches will be identified as to the source and inspected by the City Arborist for EAB intrusion.

### **Prescribed Removals**



**Emerald Ash Borer Management Plan  
Community Services Department**

The goal is to remove all Ash trees that are in public right of way that have a caliper smaller than 8” before the threat level increases. Through our current inventory this will be fifty-three trees. These removals will be spread through the first year using already appropriated funds, and budgeted through the second year of this plan for total costs. If the threat level is increased to Yellow at any time within the first year, an additional appropriation for removals should be expected.

The City will also procure quantity pricing for residents through a quantity bid with a qualified arborist vendor. This pricing will be offered to residents if their intention is to remove Ash trees from their own private property.

**Prescribed Treatments**

Due to the threat level no treatments will be scheduled on PROW Ash trees.

**Tree Replacements**

Any resident that has had a PROW tree removed from the right of way abutting their property will be offered a tree at no cost to plant. We will ask that the home owner plant this tree at their own cost. The City of Edgewater will have a volunteer group ready in case the home owner can not physically or financially have the tree planted. Trees must be planted back in a City Arborist approved location using updated City regulations.

**Initial Year Budget**

*Initial Plan Year*

<i>Initial Plan Year Total</i>	<b><i>\$5,840.00</i></b>
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<i>Threat Level: Green</i>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Mailings	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$50.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$34.00
Site Visits	Staff Time (\$17/ Hr. x 40 Hrs.)	\$680.00
PROW Removals	Total Removal cost 53 trees	\$8,240.00
Stump Grinding	Total stump grinding cost	\$1,408.00
Tree Replacements	53 Replacement trees	\$7,950.00
<b><i>Total</i></b>		<b><i>\$19,655.00</i></b>

## **Threat Level: Yellow**

### **Education and Public & Media Outreach**

**Threat level notification-** The City will mail out threat level update to let residents know the current threat level of the EAB has increased. These mailing will be sent to all physical addresses in Edgewater. Notifications will also be sent to all media listed on the current media outreach list, as well as posted on the City website and sent through the Town Crier. These notifications will include all other publicity listed below.

**Site Visits-** the City Arborist, Code Enforcement Officer, Recreation Manager and the Community Service Director will manage a schedule of site visits, to inspect any suspect diseases or stress. Through this threat level they will also work to identify any Ash trees visible from public right of way on private property.

**Website-** A brief article will be added to the website enforcing the idea to keep an eye on the Ash trees and report any signs of disease or stress.

**Public Meeting-** the City Arborist will host a minimum of two (2) public meeting each year Edgewater is in this threat level. The meetings will be utilized for information sharing and to update the public on what should be expected under current threat level.

**Tree Board Outreach-** The Tree Board will canvas and provide informational brochures to their pre-assigned sections.

### **Monitoring and Inspections**

All inventoried Ash trees will be inspected monthly by the City Arborist. Any branch samples submitted by contractors through the permit system will be de-barked and inspected for EAB. The City Arborist will also initiate a branch sampling program to identify any findings of EAB.

### **Wood Disposal & Utilization**

The City of Edgewater will require all Ash tree materials to be taken to the landfill in Jefferson County (already in the quarantine area). The City will also require one branch from each Ash tree that is pruned or removed. These branches will be identified as to the source and inspected by the City arborist for EAB intrusion.

### **Prescribed Removals**

The City will continue to procure quantity pricing for residents through a quantity bid with a qualified arborist vendor. This pricing will be offered to residents if their intention is to remove Ash trees from their own private property.

Any distressed signs in Ash trees will be evaluated for removal on a case by case scenario.

**Prescribed Treatments**

Due to the threat level no treatments will be scheduled on PROW Ash trees.

**Tree Replacements**

The City will offer discounted tree replacements (60% of cost) for any resident that removes a Ash from their private property.

**EAB Budget**

<i>Initial Plan Year Total</i>	
<i>Threat Level: Green Total</i>	<b>\$19,655.00</b>

<i>Threat Level: Yellow</i>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Mailings	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Tree Replacements	7 Replacement Trees (6%)	\$840.00
<i>Total</i>		<b>\$3,321.00</b>

## **Threat Level: Orange**

### **Education and Public & Media Outreach**

**Threat level notification-** The City will mail out threat level update to let residents know the current threat level of the EAB has increased. These mailing will be sent to all physical addresses in Edgewater. Notifications will also be sent to all media listed on the current media outreach list, as well as posted on the City website and sent through the Town Crier. These notifications will include all other publicity listed below.

**Direct Mailing-** the City will mail all property owners with known Ash trees inventoried on their property or in the PROW abutting their property. These letters will explain the treatment changes added with the new threat level. Private tree owners will be asked to participate in the treatment program.

**Site Inspections-** the City Arborist, Code Enforcement Officer, Recreation Manager and the Community Service Director will manage a schedule of site inspections, to inspect any suspect diseases or stress.

**Website-** A article detailing the signs of stress and decay to look for will be added to the website.

**Public Meeting-** the City Arborist will host a minimum of two (2) public meeting each year Edgewater is in this threat level. The meetings will be utilized for information sharing and to update the public on what should be expected under current threat level.

**Tree Board Outreach-** The Tree Board will canvas and provide informational brochures to their pre-assigned sections.

### **Monitoring and Inspections**

All inventoried Ash trees will be inspected monthly by the City Arborist. Any branch samples submitted by contractors through the permit system will be de-barked and inspected for EAB. City Arborist will take a branch sample of at least 25% of PROW trees.

### **Wood Disposal & Utilization**

The City of Edgewater will require all Ash tree materials to be taken to the landfill in Jefferson County (already in the quarantine area). The City will also require one branch from each Ash tree that is pruned or removed. These branches will be identified as to the source and inspected by the City Arborist for EAB intrusion.

### **Prescribed Removals**



**Emerald Ash Borer Management Plan  
Community Services Department**

The City will continue to procure quantity pricing for residents through a quantity bid with a qualified arborist vendor. This pricing will be offered to residents if their intention is to remove Ash trees from their own private property.

Any distressed signs in Ash trees will be evaluated for removal on a case by case scenario.

**Prescribed Treatments**

All PROW trees will be placed on a treatment plan and receive their first treatment within the first month of this threat level. Pricing will also be offered through qualified vendor to any resident property owner wanting to treat their private Ash trees. All trees will be treated once every two-years if they are deemed in good health by the City Arborist.

**Tree Replacements**

The City will offer discounted tree replacements (60% of cost) for any resident that removes an Ash from their private property. The City will also offer replacement trees at no cost for any removal of PROW Ash trees.

**EAB Budget**

<i>Initial Plan Year Total</i>	
<i>Threat Level: Green Total</i>	<b>\$19,655.00</b>
<i>Threat Level: Yellow Total</i>	<b>\$3,321.00</b>

<i>Threat Level: Orange</i>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Direct Mailing	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Branch Sampling	30 hrs. @ \$17/ Hr.	\$510.00
PROW Treatments	Tree-age injection (64)	\$6,600.00
Tree Replacements	5 Replacement Trees (3%)	\$600.00
<b>Total</b>		<b>\$10,191.00</b>

## **Threat Level: Red**

### **Education and Public & Media Outreach**

**Threat level notification-** The City will mail out threat level update to let residents know the current threat level of the EAB has increased. These mailing will be sent to all physical addresses in Edgewater. Notifications will also be sent to all media listed on the current media outreach list, as well as posted on the City website and sent through the Town Crier. These notifications will include all other publicity listed below.

**Direct Mailing-** the City will mail all property owners with known Ash trees inventoried on their property, or in the PROW abutting their property, update letters which will include the need to treat or remove all Ash trees located on private property or in PROW.

**Site Inspections-** the City Arborist, Code Enforcement Officer, Recreation Manager and the Community Service Director will manage a schedule of site inspections, to inspect any suspect diseases or stress.

**Website-** an article detailing the importance of treating or removing any Ash tree will be added to the site. There will also be a section for disposal of Ash trees.

**Public Meeting-** the City Arborist will host a minimum of two (2) public meeting each year Edgewater is in this threat level. The meetings will be utilized for information sharing and to update the public on what should be expected under current threat level.

**Tree Board Outreach-** The Tree Board will canvas and provide informational brochures to their pre-assigned sections.

### **Monitoring and Inspections**

All inventoried Ash trees will be inspected monthly by the City Arborist. Any branch samples submitted by contractors through the permit system will be de-barked and inspected for EAB. City Arborist will take a branch sample of at least 25% of PROW trees.

### **Wood Disposal & Utilization**

The City of Edgewater will require all Ash tree materials to be taken to the landfill in Jefferson County (already in the quarantine area). The City will also require one branch from each Ash tree that is pruned or removed. These branches will be identified as to the source and inspected by the City arborist for EAB intrusion.

### **Prescribed Removals**

The City will continue to procure quantity pricing for residents through a quantity bid with a qualified arborist vendor. This pricing will be offered to residents if their intention is to remove Ash trees from their own private property.



Any PROW Ash tree found with signs of EAB will be immediately scheduled for removal.

Code Enforcement will monitor private Ash trees from public right of way. The City will issue warnings followed by citations for mandatory removals.

**Prescribed Treatments**

All PROW trees will be updated with treatment following the two year period. Pricing will also be offered through qualified vendor to any resident property owner wanting to treat their private Ash trees. All trees will be treated once every two-years if they are deemed in good health by the City Arborist.

**Tree Replacements**

The City will offer discounted tree replacements (60% of cost) for any resident that removes an Ash from their private property. The City will also offer replacement trees at no cost for any removal of PROW Ash trees.

**EAB Budget**

<i>Initial Plan Year Total</i>	
<i>Threat Level: Green Total</i>	<b>\$19,655.00</b>
<i>Threat Level: Yellow Total</i>	<b>\$3,321.00</b>
<i>Threat Level: Orange Total</i>	<b>\$10,191.00</b>

<i>Threat Level: Red</i>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Direct Mailing	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Branch Sampling	30 hrs. @ \$17/ Hr.	\$510.00
PROW Treatments	Tree-age injection (64)	\$6,600.00
Tree Removals	Removal Costs (3% / year)	\$1,000.00
Tree Replacements	5 Replacement Trees (3%)	\$600.00
<b>Total</b>		<b>\$11,191.00</b>



**Emerald Ash Borer Management Plan  
Community Services Department**

**Re-occurring Yearly Costs**

This plan was developed to highlight overall costs of maintaining the Ash tree inventory in PROW as well as resident education. Because some of these costs can double up in a calendar year or even spread into future calendar years it is important to also know costs that may happen each year within a Threat level. Below are some costs we should plan for in case Threat Levels last more than one calendar year.

<b>Re-occurring Yearly Costs</b>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Branch Sampling	30 hrs. @ \$17/ Hr.	\$510.00
PROW Treatments	Tree-age injection (64)	\$6,600.00
Tree Removals	Removal Costs (3% / year)	\$1,000.00
Tree Replacements	5 Replacement Trees (3%)	\$600.00
	<b><i>Total</i></b>	<b><i>\$9,898.00</i></b>



**Emerald Ash Borer Management Plan  
Community Services Department**

***Appendix A:***

**EAB Budget**

***Initial Plan Year***

<b>Item</b>	<b>Description</b>	<b>Cost</b>
Print & insert flier	1,650 inserts double sided (Eng./ Span.)	\$690.00
Ash Tree Plaque	118 Plaques for PROW	
Plaque Installation	60 Hours for Installation @ \$17/ Hr.	\$1,020.00
Private Plaque Installation	40 Hours for Installation @ \$17/ Hr.	\$680.00
Policy Changes	Staff time and Attorney Fees	
<b>Total</b>		

***Threat Level: Green***

<b>Item</b>	<b>Description</b>	<b>Cost</b>
Direct Mailing	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$50.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$34.00
Site Visits	Staff Time (\$17/ Hr. x 40 Hrs.)	\$680.00
PROW Removals	Total Removal cost 53 trees	\$8,240.00
Stump Grinding	Total stump grinding cost	\$1,408.00
Tree Replacements	53 Replacement trees	\$7,950.00
<b>Total</b>		<b>\$19,655.00</b>

***Threat Level: Yellow***

<b>Item</b>	<b>Description</b>	<b>Cost</b>
Direct Mailing	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Tree Replacements	7 Replacement Trees (6%)	\$840.00
<b>Total</b>		<b>\$3,321.00</b>

***Threat Level: Orange***

<b>Item</b>	<b>Description</b>	<b>Cost</b>
Direct Mailing	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00



**Emerald Ash Borer Management Plan  
Community Services Department**

Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Branch Sampling	30 hrs. @ \$17/ Hr.	\$510.00
PROW Treatments	Tree-age injection (64)	\$6,600.00
Tree Replacements	5 Replacement Trees (3%)	\$600.00
<b>Total</b>		<b>\$10,191.00</b>

<b>Threat Level: Red</b>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Direct Mailing	Printing Cost (in-house)	\$600.00
	Postage Costs	\$693.00
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Branch Sampling	30 hrs. @ \$17/ Hr.	\$510.00
PROW Treatments	Tree-age injection (64)	\$6,600.00
Tree Removals	Removal Costs (3% / year)	\$1,000.00
Tree Replacements	5 Replacement Trees (3%)	\$600.00
<b>Total</b>		<b>\$11,191.00</b>

<b>Re-occurring Yearly Costs</b>		
<b>Item</b>	<b>Description</b>	<b>Cost</b>
Public Meeting	Refreshments	\$100.00
	Staff Time (\$17/ hr. x 2 Hrs.)	\$68.00
Site Inspections	Staff Time (\$17/ Hr. x 60 Hrs.)	\$1,020.00
Branch Sampling	30 hrs. @ \$17/ Hr.	\$510.00
PROW Treatments	Tree-age injection (64)	\$6,600.00
Tree Removals	Removal Costs (3% / year)	\$1,000.00
Tree Replacements	5 Replacement Trees (3%)	\$600.00

## Inventory

### **Public Right of Way (PROWT)**

Below is a detailed list of the trees that we currently have in public right of way. Per the Edgewater Municipal Code 11-4-90 it is up to the home owner to “ remove all dead diseased or dangerous trees, stumps and broken or decayed limbs which constitute a menace to the safety of the public, as determined by the City Arborist.”

<b>Street</b>	<b>Address</b>	<b>Size</b>	
Gray	2266-68	3	
Ingalls	2215	3	
Kendall	2480	3	
Kendall	2480	3	
Kendall	2480	3	
Ames	2474	4	
Fenton	2550	4	
Gray	2245	4	
Gray	2245	4	
Sheridan	1701	5	Market Place
Sheridan	1701	5	Market Place
Sheridan	1701	5	
Benton	2595	5	
Benton	2595	5	
Depew	2573	5	ms
Fenton	2443	5	
Fenton	2443	5	
Fenton	2584	5	
Sheridan	1701	6	Market Place
Sheridan	1701	6	Market Place
Sheridan	1701	6	
Sheridan	1701	6	
Ames	2501	6	
Ames	2574	6	
Benton	2564	6	
Depew	1990	6	post office on Depew
Depew	1990	6	post office on Depew
Fenton	2510	6	
Fenton	2550	6	
Gray	1950	6	
Harlan	2535	6	
Sheridan	1701	7	Market Place



**Emerald Ash Borer Management Plan  
Community Services Department**

Sheridan	1701	7	Market Place
Sheridan	1701	7	Market Place
Sheridan	2401	7	
Sheridan	2487	7	
Sheridan	2487	7	
Ames	2501	7	
Depew	1990	7	post office on Depew
Eaton	2250	7	
			Edgewater Inn on
25th Ave.	5302	7	Ames
Sheridan	1701	8	Market Place
Sheridan	1701	8	
Sheridan	2401	8	
Sheridan	2401	8	
Ames	2475	8	
Ames	2501	8	
Ames	2501	8	
Depew	2439	8	
Depew	1990	8	post office on Depew
Depew	1990	8	post office on Depew
Depew	1990	8	post office on Depew
Ingalls	2574	8	
Sheridan	1701	9	Market Place
Sheridan	1701	9	Market Place
Sheridan	1701	9	Market Place
Sheridan	2487	9	
Sheridan	2487	9	
Sheridan	2487	9	
Ingalls	2201	9	
			Edgewater Inn on
25th Ave.	5302	9	Ames
26th Ave.	6201	9	on 28th
26th Ave.	6201	9	on 28th
Sheridan	1701	10	Market Place
Sheridan	1701	10	Market Place
Sheridan	1701	10	Market Place
Sheridan	1701	10	
Sheridan	1701	10	
Sheridan	1701	10	



**Emerald Ash Borer Management Plan  
Community Services Department**

Sheridan	2401	10	
Sheridan	2487	10	
Sheridan	2487	10	
Sheridan	2487	10	
Eaton	2210	10	
Ingalls	2561	10	
Ingalls	2561	10	
26th Ave.	6201	10	on 28th
Sheridan	1701	11	Market Place
Sheridan	1701	11	Market Place
Sheridan	1701	11	Market Place
Sheridan	1701	11	
Sheridan	2401	11	
Sheridan	2487	11	
Depew	2439	11	
26th Ave.	6201	11	on 28th
26th Ave.	6201	11	on 28th
Sheridan	1701	12	Market Place
Sheridan	1701	12	
Chase	2530	12	
Depew	2549	12	
Fenton	2501	12	
Pierce	2098	12	
Pierce	2098	12	
Pierce	2098	12	
26th Ave.	6201	12	on 28th
26th Ave.	6201	12	on 28th
Sheridan	1701	13	Market Place
Chase	2522	13	
Gray	1945	13	
Pierce	2098	13	
Chase	2478	14	
Ingalls	2560	14	
Sheridan	2401	15	ms
Kendall	2215	16	
Chase	2478	17	
Fenton	2205	17	



**Emerald Ash Borer Management Plan  
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Ames	2473	18	
Ames	2501	18	
Kendall	2205	18	
Benton	2432	19	
Fenton	1945	20	ms
Fenton	2035	24	ms
Kendall	2205	24	
Kendall	2215	24	
Depew	2201	29	ms

**Private Viewable Trees (PFYT)**

The following inventory is build with all Ash trees that are visible in the front yards of homeowners. Again per our code these trees are the duty of the homeowner to maintain and/or remove when deemed necessary by the City Arborist.

<b>Street</b>	<b>Address</b>	<b>Size</b>	
Sheridan	1701	2	Market Place
Sheridan	1701	3	Market Place
Sheridan	1701	3	Market Place
Sheridan	1701	3	Market Place
Sheridan	1701	3	Market Place
Lakeshore Pl	1703	3	
Lakeshore Pl	1705	3	
Lakeshore Pl	1707	3	
Lakeshore Pl	1715	3	
Gray	1955	3	
Gray	2245	3	
Sheridan	1701	4	Market Place
Sheridan	1701	4	Market Place
Sheridan	1701	4	Market Place
Sheridan	1701	4	Market Place
Sheridan	1701	4	Market Place
Ames	2325	4	
Depew	1702	4	
Lakeshore Pl	1707	4	
Lakeshore Pl	1712	4	
Lakeshore Pl	1721	4	
Lakeshore Pl	1727	4	
Lakeshore Pl	1733	4	
Lakeshore Pl	1737	4	
Lakeshore Pl	commons	4	



**Emerald Ash Borer Management Plan  
Community Services Department**

Ingalls	2436	4	
Sheridan	1701	5	Market Place
Sheridan	1701	5	Market Place
Sheridan	1701	5	Market Place
Sheridan	1701	5	Market Place
Ames	2575	5	
Ames	2575	5	
Depew	1990	5	post office on Depew
Depew	1710	5	
Depew	1716	5	
Depew	1720	5	
Depew	1726	5	
Depew	1734	5	
Lakeshore Pl	1718	5	
Lakeshore Pl	1760	5	
Lakeshore Pl	1760	5	
Lakeshore Pl	commons	5	
Lakeshore Pl	commons	5	
Lakeshore Pl	commons	5	
Kendall	2041	5	
jefferosn HS	2305	5	
jefferosn HS	2305	5	
jefferosn HS	2305	5	
jefferosn HS	2305	5	
26th Ave.	6010	5	
Sheridan	1701	6	Market Place
Sheridan	1701	6	Market Place
Sheridan	1701	6	Market Place
Sheridan	1701	6	Market Place
Sheridan	1701	6	Market Place
Sheridan	1701	6	Market Place
Ames	2575	6	
Depew	1702	6	
Depew	1740	6	
Depew	1804	6	
Depew	1922	6	
Lakeshore Pl	1718	6	
Lakeshore Pl	1739	6	
Lakeshore Pl	1739	6	



**Emerald Ash Borer Management Plan  
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Lakeshore Pl	commons	6	
Lakeshore Pl	commons	6	
Lakeshore Pl	commons	6	
Eaton	2257	6	
Harlan	2205	6	
Ingalls	2436	6	
Marshall	2027	6	
Newland	2438	6	
Otis Ct.	2428	6	
jefferosn HS	2305	6	
26th Ave.	6010	6	
26th Ave.	6010	6	
26th Ave.	6010	6	
26th Ave.	6201	6	
Sheridan	1701	7	Market Place
Sheridan	1701	7	Market Place
Sheridan	1701	7	Market Place
Sheridan	1701	7	Market Place
Depew	2201	7	
			post office on Depew
Depew	1990	7	
Depew	1738	7	
Depew	1910	7	
Lakeshore Pl	1742	7	
Lakeshore Pl	1742	7	
Lakeshore Pl	commons	7	
Otis Ct.	2435	7	
26th Ave.	6010	7	
26th Ave.	6010	7	
Depew	2401	8	
			post office on Depew
Depew	1990	8	
Fenton	2291	8	
Marshall	2290	8	
26th Ave.	6201	8	
26th Ave.	6201	8	
26th Ave.	6201	8	
26th Ave.	6298	8	
Sheridan	1701	9	Market Place



**Emerald Ash Borer Management Plan  
Community Services Department**

Sheridan	1701	9		Market Place
Sheridan	1701	9		Market Place
Sheridan	1701	9		Market Place
Sheridan	1701	9		Market Place
Sheridan	1701	9		Market Place
Ingalls	2525	9		
Ingalls	2525	9		
Lamar	2015	9		
Lamar	2277	9		
Lamar	2492	9		
Newland	2415	9		
Otis Ct.	2434	9		
Otis Ct.	2458	9		
Otis St.	2479	9		
Pierce	2497	9		
26th Ave.	6201	9		
Sheridan	1701	10		Market Place
Sheridan	1701	10		Market Place
Sheridan	1701	10		Market Place
Sheridan	1701	10		Market Place
Sheridan	1701	10		Market Place
Sheridan	1701	10		Market Place
Lakeshore Pl	1700	10		
Ingalls	2076	10		
Marshall	2217	10		
Newland	2070	10		
Newland	2080	10		
Otis Ct.	2435	10		
Otis Ct.	2453	10		
Otis Ct.	2465	10		
jefferosn HS	2305	10		
24th Ave.	6809	10		
26th Ave.	6010	10		
26th Ave.	6201	10		
Sheridan	1701	11		Market Place
Ames	2123	11		
Ames	2155	11		
Jay	2100	11		
Kendall	2565	11		
Lamar	2492	11		



**Emerald Ash Borer Management Plan  
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Otis Ct.	2429	11	
24th Ave.	6809	11	
Sheridan	1701	12	Market Place
Benton	2440	12	
Gray	2240	12	
Gray	2540	12	
Jay	2436	12	
Marshall	2270	12	
Newland	2246	12	
Newland	2270	12	
Otis St.	2463	12	
Pierce	2400	12	
Ames	2520	13	
Benton	2564	13	
Eaton	2564	13	
Ingalls	2060	13	
Jay	2105	13	
Lamar	2410	13	
Lamar	2492	13	
Lamar	2518	13	
Marshall	2412	13	
Pierce	2414	13	
20th Ave.	6201	13	
Ames	2516	14	
Gray	2256	14	
Harlan	2203	14	
Jay	2090	14	
Lamar	2410	14	
Marshall	2430	14	
Otis Ct.	2416	14	
25th Lane	6665	14	
26th Ave.	6201	14	
Sheridan	1701	15	Market Place
Eaton	2005	15	
Jay	2025	15	
Marshall	2425	15	
Newland	2246	15	
Otis St.	2000	15	
26th Ave.	6201	15	
Sheridan	2555	16	



**Emerald Ash Borer Management Plan  
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Ames	2446	16
Depew	2401	16
Jay	2025	16
Lamar	2518	16
26th Ave.	6201	16
26th Ave.	6201	16
Ingalls	2424	17
Marshall	2226	17
Marshall	2424	17
26th Ave.	5254	17
26th Ave.	5254	17
26th Ave.	6201	17
Sheridan	1675	18
Lamar	2202	18
Lamar	2440	18
26th Ave.	5290	18
26th Ave.	6201	18
Ames	2574	20
Ingalls	2032	20
26th Ave.	5290	20
26th Ave.	6201	20
Depew	2464	21
Otis St.	2407	21
Ames	2574	22
Ingalls	2424	22
Lamar	2518	22
Newland	2450	22
Jay	2080	23
Otis Ct.	2423	23
Lamar	2500	24
26th Ave.	6201	24
Ingalls	2032	25
Lamar	2500	25
Marshall	2412	25
Marshall	2430	25
26th Ave.	5254	26
26th Ave.	6201	26
Marshall	2230	27
Chase	2527	28
Pierce	2474	28



**Emerald Ash Borer Management Plan  
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Harlan	2514	30
Ingalls	2087	30
Jay	2005	30
26th Ave.	6201	30
26th Ave.	6201	40
26th Ave.	6640	13

**City Owned Trees (COT)**

These trees are located on City owned property and would be the duty of the City to maintain and remove when deemed necessary.

**Private Non-Viewable Trees (PBYT)**