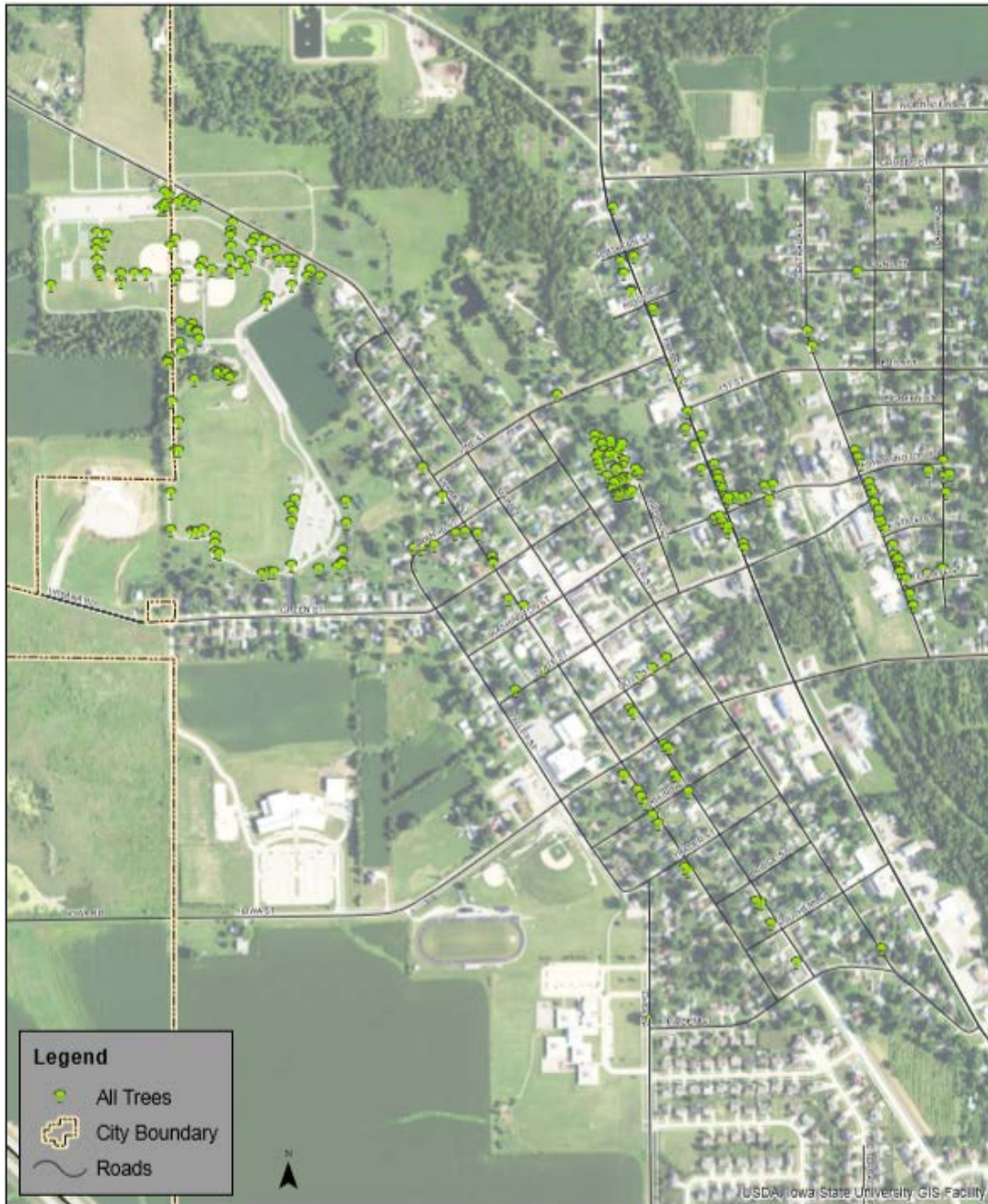
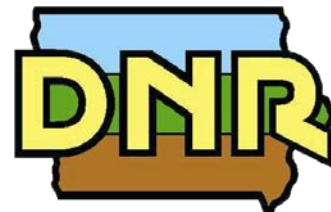


# Center Point, IA



2018 Urban Forest Management Plan  
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# Executive Summary

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## Overview

This plan was developed to assist the City of Center Point with managing its urban forest, including budgeting and future planning. Trees can provide a multitude of benefits to the community, and sound management allows a community to best take advantage of these benefits. Management is especially important considering the serious threats posed by forest pests such as the emerald ash borer (EAB). EAB is an invasive insect imported from Eastern Asia on wood shipping crates that kills all species of ash trees (this does not include mountain ash). There is a strong possibility that 16% of Center Point's city owned trees (ash) will die once EAB becomes established in the community, unless preventative treatment is used. With proper planning and management, the costs of removing dead and dying trees can be extended over years, mitigating public safety issues.

## Inventory and Results

In 2018, a tree inventory was conducted using Global Positioning System (GPS) data collectors. The inventory was a complete inventory of street and park trees. Below are some key findings of the 244 trees inventoried.

- Center Point's trees provide \$34,153.31 of benefits annually, an average of \$140.55 a tree
- There are over 25 species of trees
- The top three genera are: Maple 34%, Oak 18%, and Ash 16%
- 38% of trees are in need of some type of management
- 19 (13 ash) trees are recommended for removal

## Recommendations

The core recommendations are detailed in the Recommendations Section. The Emerald Ash Borer Plan includes management recommendations as well. Below are some key recommendations.

- Of the 19 trees needing removal, 4 trees are over 24 inches in diameter at 4.5 ft and must be addressed immediately [\\*City ownership of the trees recommended for removal should be verified prior to any removal\\*](#)
- The 40 ash trees should be carefully examined annually for signs and symptoms of EAB.
- All trees should be pruned on a routine schedule- one third of the city every other year
- Plant a diverse mix of trees that do not include: ash, maple, cottonwood, poplar, box elder, Chinese elm, evergreen, willow or black walnut
- Check ash trees with a visual survey yearly
- With the current budget it could take 12 years to remove ash – Suggestion: request a budget increase to \$6,000 annually and apply for grants to plant replacement trees

# Introduction

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This plan was developed to assist Center Point with the management, budgeting and future planning of their urban forest. Across the state, forestry budgets continue to decrease with more and more of that money spent on tree removal. With the anticipated arrival of Emerald Ash Borer (EAB), an invasive pest that kills native ash trees, it is time to prepare for the increased costs of tree removal or treatment and replacement planting. With proper planning and management of the current canopy in Center Point these costs can be extended over years and public safety issues from dead and dying ash trees mitigated.

Trees are an important component of Center Point's infrastructure and one of the greatest assets to the community. The benefits of trees are immense. Trees provide the community with improved air quality, stormwater runoff interception, energy conservation, lower traffic speeds, increased property values, reduced crime, improved mental health and create a desirable place to live, to name just a few benefits. It is essential that these benefits be maintained for the people of Center Point and future generations through good urban forestry management.

Good urban forestry management involves setting goals and developing management strategies to achieve these goals. An essential part of developing management strategies is a comprehensive public tree inventory. The inventory supplies information that will be used for maintenance, removal schedules, tree planting and budgeting. Basing actions on this information will help meet Center Point's urban forestry goals.

## Inventory

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In 2018, a tree inventory was conducted that included 100% of the city owned trees on both streets and parks. The tree data was collected using a handheld Global Positioning System (GPS) receiver. The data collector gives Geographic Information Systems (GIS) coordinates with an accuracy of 3 meters, which can be used in Arc GIS as an active GIS data layer. Because the inventory is a digital document the data can be updated with new information and become a working document.

The programming used to collect tree information on the data collectors was written to be compatible with a state-of-the-art software suite called i-Tree. i-Tree was developed by the USDA Forest Service to quantify the structure of community trees and the environmental services that trees provide. The i-Tree suite is a public domain which can be accessed for free.

To quantify the urban forest structure and benefits, specific data is collected for each tree. This data includes: location, land use, species, diameter at 4.5 ft, recommended maintenance, priority of that maintenance, leaf health, and wood condition. Additionally, signs and symptoms associated with EAB were noted for all ash trees. The signs and symptoms noted were canopy dieback, epicormic shoots, bark splitting, D-shaped borer exit holes, and wood pecker damage.

# Inventory Results

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The data collected for the 244 city trees was entered into the USDA Forest Service program Street Tree Resource Analysis Tool for Urban Forestry Management as part of the i-Tree suite. The following are results from the i-Tree STREETS analysis.

## Annual Benefits

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### **Annual Energy Benefits**

Trees conserve energy by shading buildings and blocking winds. Center Point's trees reduce energy related costs by approximately \$8,698.75 annually (Appendix A, Table 1). These savings are both in Electricity (41.16 MWh) and in Natural Gas (5,688.42 Therms).

### **Annual Stormwater Benefits**

Center Point's trees intercept about 477,625.07 gallons of rainfall or snow melt a year (Appendix A, Table 2). This interception provides \$12,943.07 of benefits to the city.

### **Annual Air Quality Benefits**

Air quality is a persistent public health issue in Iowa. The urban forest improves air quality by removing pollutants, lowering air temperature, and reducing energy consumption, which in turn reduces emissions from power plants, and emitting volatile organic matter (ozone). In Center Point, it is estimated that trees remove 536.98 lbs of air pollution (ozone (O<sub>3</sub>), particulate matter less than 10 microns (PM<sub>10</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), and sulfur dioxide (SO<sub>2</sub>)) per year with a net value of \$1,517.17 (Appendix A, Table 3).

### **Annual Carbon Benefits**

Carbon sequestration and storage reduce the amount of carbon in the atmosphere, mitigating climate change. In Center Point, trees sequester about 113,261.07 lbs of carbon a year with an associated value of \$849.46 (Appendix A, Table 5). In addition, the trees store 1,909,731.62 lbs of carbon, with a yearly benefit of \$14,322.99 (Appendix A, Table 4).

### **Annual Aesthetics Benefits**

Social benefits of trees are hard to capture. The analysis does have a calculation for this area that includes: aesthetic value, property values, lowered rates of mental illness and crime, city livability and much more. Center Point receives \$9,698.83 in annual social benefits from trees (Appendix A, Table 6).

### **Financial Summary of all Benefits**

According to the USDA Forest Service i-Tree STREETS analysis, Center Point's trees provide \$34,153.31 of benefits annually. Benefits of individual trees vary based on size, species, health and location, but on average each of the 244 trees in Center Point provide approximately \$140.55 annually (Appendix A, Table 7).

# Forest Structure

## Species Distribution

Center Point has over 25 different tree species along city streets and parks (Appendix A, Figure 1). The distribution of trees by genera is as follows:

Maple	82	34%
Oak	43	18%
Ash	40	16%
Apple (Crab)	21	9%
Walnut	14	6%
Linden/Basswood	12	5%
Birch	8	3%
Hackberry	6	2.5%
Honeylocust	5	2%
Tulip Tree	2	.8%
Others	23	9.4%

## Age Class

Most of Center Point's trees (60%) are less than 18 inches in diameter at 4.5 ft (Appendix A, Figure 2). For age, it is preferred that the highest amounts of trees are in the smallest size category (a downward slope) to prepare for natural mortality and to maintain canopy cover. Center Point's size curve is on the smaller side, indicating a younger than average stand.

## Condition: Wood and Foliage

Both wood condition and leaf condition are good indicators of the overall health of the urban forest. The foliage condition results for Center Point indicate that 95% of the trees are in good health, with only 5% of the foliage in poor health, dead or dying (Appendix A, Figure 3 & Appendix B, Figure 3). Similarly, 94% of Center Point's trees are in good health for wood condition (appendix A, Figure 4 & Appendix B, Figure 3). Wood condition that is in poor health, dead or dying is about 6% of the population. This 6% is an estimate of trees that need management follow up.

## Management Needs

The following outlines the specific management needs of the street and park trees by number of trees and percent of canopy (Appendix B, Figure 3).

Crown Cleaning	36	14.75%
Crown Raising	8	3.28%
Tree Staking	1	0.41%
Tree Removal	19	7.79%
Crown Reduction	4	1.64%
Treat ash for EAB	24	9.84%

## Canopy Cover

The total canopy with both private and public trees is 19%, 310 acres. The canopy cover included in the Center Point inventory includes approximately 4.89 acres (Appendix A, Figure 4). The City's Canopy goal is to increase canopy by 3%, in 30 years. To achieve this goal it is estimated that 121 trees need to be planted annually.

## Land Use and Location

The majority of Center Point's city and park trees are in planting strips in single family residential neighborhoods (Appendix A, Figure 6 & Appendix A, Figure 7). The following describes the land use and locations for the street and park trees.

### Land Use

Single family residential	56%
Park/vacant/other	42%
Industrial/Large commercial	0%
Small commercial	0.82%
Multifamily residential	0.82%

### Location

Planting strip	96.31%
Other maintained locations	2.05%
Cutout (surrounded by pavement)	0%
Front yard	1.64%

## Recommendations

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### **Risk Management**

Hazardous trees can be a significant threat to both people and property. Trees that are dead or dying, or that have large issues such as trunk cracks longer than 18 inches should be removed. Broken branches and branches that interfere with motorist's vision of pedestrians, vehicles, traffic signs and signals, etc should be removed.

### Hazardous trees

Center Point has 3 critical concern trees that need immediate removal. These trees can be seen on the Location of Trees with Recommended Maintenance map (Appendix B, Figure 4). It is recommended to start with the large diameter critical concern trees first. There are 3 trees over 24 inches in diameter at 4.5 ft that should be addressed immediately. Please refer to the six year maintenance plan at the end of this section. After all of the critical concern trees are addressed, there should be follow up on the trees marked as needing maintenance. There are a total of 89 trees with these needs.

### Poor tree species

After the removal of the critical concern trees, ash trees in poor health should be assessed for removal (Appendix B, Figure 3 & Appendix B, Figure 4). Of the 19 removals, 13 are ash trees. There is a total of 40 ash trees, and 25 of those have signs and symptoms that have been associated with EAB. In



addition, there is 1 tree that is in poor health. [\\*City ownership of the trees recommended for removal should be verified prior to any removal\\*](#)

## **Pruning Cycle**

Proper pruning can extend the life and good health of trees, as well as reduce public safety issues. In the Management Needs section of the Findings there are four main maintenance issues to be addressed: routine pruning, crown cleaning, crown raising, and crown reduction. Crown cleaning removes dead, diseased, and damaged limbs. Crown raising is the removal of lower branches that are 2 inches in diameter or larger in the case of providing clearance for pedestrians or vehicles. Crown reduction is removing individual limbs from structures or utility wires. It is recommended that all trees be pruned on a routine schedule every five to seven years. Please refer to the six year maintenance plan for further information.

## **Planting**

Most of the planting over the next 5 years will replace the trees that are removed. It is recommended to plant 1.2 trees for every tree removed, since survival rates will not be 100%. Please refer to the six year maintenance plan at the end of this section. It is not essential that the new trees be planted in the same location of the trees being removed. However, maintaining the same number of trees helps ensure continuation of the benefits of the existing forest in Center Point.

It is important to plant a diverse mix of species in the urban forest to maintain canopy health, since most insects and diseases target a genus (ash) or species (green ash) of trees. Current diversity recommendations advise that a genus (i.e. maple, oak) not make up more than 20% of the urban forest and a single species (i.e. silver maple, sugar maple, white oak, bur oak) not make up more than 10% of the total urban forest. Presently, the forest is heavily planted with maple (34%) (Appendix A, Figure 1). Maples should not be planted until this percentage can be lowered. Also, ash trees have not been recommended since 2002, due to the threat of EAB. Other species to avoid because they are public nuisances include: cottonwood, poplar, box elder, Chinese elm, evergreen, willow or black walnut, as outlined in section 151.02 of the city ordinance (Appendix C). All trees planted must meet the restrictions in city ordinance 151.02 (Appendix C).

## **Continual Monitoring**

Due to the threat of EAB, it is important to continuously check the health of ash trees. It is recommended that ash trees be checked with a visual survey every year for tree decline and for the following signs and symptoms: canopy dieback, epicormic shoots, bark splitting, D-shaped borer exit holes, and wood pecker damage.

## **Six Year Maintenance Plan with No Additional Funding**

### **Year 1**

- Removal: 3 critical concern trees and 1 ash in poor health
- Planting and Replacement: 5 trees to be planted in open locations
- Young Tree Pruning & Maintenance:
- Visual Survey for signs and symptoms of EAB

### **Year 2**

- Removal: 4 additional ash trees

\*Or saving for ash tree treatment and/or future ash removal  
Planting and Replacement: 2 trees in open locations from year one removals  
Young Tree Pruning & Maintenance:  
Routine trimming: Contract to trim 1/3 of the city trees  
Visual Survey for signs and symptoms of EAB

#### Year 3

Removal: 4 trees - removal of any new critical concern trees and ash in poor health  
\*Or saving for ash tree treatment and/or future ash removal  
Planting and Replacement: 5 trees to be planted in open locations and locations from previous removals  
Young Tree Pruning & Maintenance:  
Visual Survey for signs and symptoms of EAB

#### Year 4

Removal: 4 trees - removal of any new critical concern trees and ash in poor health  
\*Or saving for ash tree treatment and/or future ash removal  
Planting and Replacement: 2 trees in open locations from previous removals  
Routine trimming: Contract to trim 1/3 of the city trees  
Young Tree Pruning & Maintenance:  
Visual Survey for signs and symptoms of EAB

#### Year 5

Removal: 4 trees - removal of any new critical concern trees and ash in poor health  
\*Or saving for ash tree treatment and/or future ash removal  
Planting and Replacement: 5 trees to be planted in open locations and locations from previous removals  
Young Tree Pruning & Maintenance:  
Visual Survey for signs and symptoms of EAB

#### Year 6

Removal: 4 trees - removal of any new critical concern trees and ash in poor health  
\*Or saving for ash tree treatment and/or future ash removal  
Planting and Replacement: 2 trees in open locations from previous removals  
Routine trimming: Contract to trim 1/3 of the city trees  
Young Tree Pruning & Maintenance:  
Visual Survey for signs and symptoms of EAB

\*Reduction of ash over 6 years: Approximately 21 ash trees removed (approximately 53% of ash). It will take approximately 12 years to remove all ash with the current budget. EAB could potentially kill all ash within 4 to 15 years of its arrival.

\*\*To remove all ash trees within 6 years, the budget would need to be increased to \$6,000 a year. If the budget were increased to \$10,000 a year all ash could be removed in 4 years.

## Emerald Ash Borer Plan

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## Ash Tree Removal

Tree removal will be prioritized with dead, dying, hazardous trees to be removed first (Appendix B, Figure 4). Next will be all ash in poor condition and displaying signs and symptoms of EAB (Appendix B, Figure 2 & Appendix B, Figure 3). *\*City ownership of the tree recommended for removal should be verified prior to any removal\**

## Treatment of Ash Trees

Chemical treatment can be effective tool for communities to spread removal costs out over several years while allowing trees to continue to provide benefits. However, treatment is not recommended if EAB is more than 15 miles away from the community. For more information on the cost of treatment strategies visit <http://extension.entm.purdue.edu/treecomputer/>

## EAB Quarantines

EAB is an extremely destructive plant pest and it is responsible for the death and decline of millions of ash trees. Ash in both forested and urban settings constitute a significant portion of the canopy cover in the United States. Current tools to detect, control, suppress and eradicate this pest are not as robust as the USDA would desire. In order to stay ahead of this hard to detect beetle, the USDA is attempting to contain the beetle before it spreads beyond its known positions by regulating articles.

A regulated article under the USDA's quarantine includes any of the following items:

- emerald ash borer
- firewood of all hardwood species (for example ash, oak, maple and hickory)
- nursery stock and green lumber of ash
- any other ash material, whether living, dead, cut or fallen, including logs, stumps, roots, branches, as well as composted and not composted chips of the genus ash (Mountain ash is not included)

In addition, any other article, product or means of conveyance not listed above may be designated as a regulated article if a USDA inspector determines that it presents a risk of spreading EAB once a quarantine is in effect for your county.

## Wood Disposal

A very important aspect of planning is determining how wood infested with EAB will be handled, keeping in mind that quarantines will restrict its movement. Consider who will cut and haul the dead and dying trees? Is there an accessible, secured site big enough to store and sort the hundreds of trees and the associated brush and chips? How will wood be disposed of or utilized? Do you have equipment capable of handling the amount and size of ash trees your tree inventory has identified? Once your county is under quarantine for EAB, contact USDA-APHIS-PPQ at 515-251-4083 or visit the website [http://www.aphis.usda.gov/plant\\_health/plant\\_pest\\_info/emerald\\_ash\\_b/regulatory.shtml](http://www.aphis.usda.gov/plant_health/plant_pest_info/emerald_ash_b/regulatory.shtml). Wood waste can be disposed of as you normally would if your county is not part of a quarantine.

## Canopy Replacement

As budget permits, all removed trees will be replaced. All trees will meet the restrictions in city ordinance 151.02 (Appendix C). The new plantings will be a diverse mix and will not include ash, maple, cottonwood, poplar, box elder, Chinese elm, evergreen, willow or black walnut.

## **Postponed Work**

While finances, staffing and equipment are focused on the management of ash, usual services may be delayed. Tree removal requests on genera other than ash will be prioritized by hazardous or emergency situations only.

## **Monitoring**

It is recommended that ash trees be checked with a visual survey every year for tree death and for the following signs and symptoms: canopy dieback, epicormic shoots, bark splitting, D-shaped borer exit holes, and wood pecker damage.

## **Private Ash Trees**

It is strongly recommended that private property owners start removing ash trees on their property upon arrival of EAB if preventative treatments are not being used. City Code 151.06 states "If it is determined with reasonable certainty that any such condition exists (trees or shrubs in the City reported or suspected to be infected with or damaged by any disease or insect or disease pests) on private property and that the danger to other trees or to adjoining property or passing motorists or pedestrians is imminent, the Council shall notify by certified mail the owner, occupant or person in charge of such property to correct such condition by treatment or removal within fourteen (14) days of said notification. If such owner, occupant or person in charge of said property fails to comply within 14 days of receipt of notice, the Council may cause the condition to be corrected and the cost assessed against the property."

# **Budget**

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## **Current Budget**

Total \$18,000 over 6 years (\$3,000/year)

## **FY 2019 Budget**

Removal: \$2,400

\*Or saving for ash tree treatment and/or future ash removal

Planting: \$500

Watering & Maintenance: \$100

## **FY 2020 Budget**

Removal: \$2,400

\*Or saving for ash tree treatment and/or future ash removal

Planting: \$200

Routine trimming: \$300

Watering & Maintenance: \$100

## **FY 2021 Budget**

Removal: \$2,400

\*Or saving for ash tree treatment and/or future ash removal

Planting: \$500

Watering & Maintenance: \$100

**FY 2022 Budget**

Removal: \$2,400

\*Or saving for ash tree treatment and/or future ash removal

Planting: \$200

Routine trimming: \$300

Watering & Maintenance: \$100

**FY 2023 Budget**

Removal: \$2,400

\*Or saving for ash tree treatment and/or future ash removal

Planting: \$500

Watering & Maintenance: \$100

**FY 2024 Budget**

Removal: \$2,400

\*Or saving for ash tree treatment and/or future ash removal

Planting: \$200

Routine trimming: \$300

Watering & Maintenance: \$100

**\*Reduction of ash over 6 years: approximately 21 ash trees removed (approximately 53% of ash). It will take approximately 12 years to remove all ash with the current budget.**

**Purposed Budget Increase**

EAB could potentially kill all ash trees in Center Point within 4 years of its arrival. To remove all ash trees within 6 years the budget would need to be increased to \$6,000 a year. If the budget were increased to \$10,000 a year all ash could be removed within 4 years. Additionally, it is recommended that Center Point apply for grants to fund replacement trees. Utility Company grants are usually between \$500 and \$10,000 for community-based, tree-planting projects that include parks, gateways, cemeteries, nature trails, libraries, nursing homes, and schools.

Another option being considered by many communities is treating a number of selected trees, either to maintain those trees in the landscape or to delay their removal – to spread out the costs and number of trees needing removed all at once. Trunk injection is administered every two years for the life of the tree. If treatment is discontinued, the tree dies. For instance, in this treatment scenario, the average ash diameter is 20 inches and at \$12 per inch, about 12 trees could be treated (\$2,880) per year (1/2 treatable ash every other year treatment). This would be 24 total trees selected for treatment, and Center Point would still need to find \$2,400 for removal. Alternatively, if there are 24 treated trees every other year, it would cost approximately \$5,760 every 2 years for treatment and leave \$0 for removal and \$0 for planting. These are alternatives to straight removal of ash trees. However, whether or not the treatment option is selected, there will be an increased cost of dealing with ash trees when EAB is found in Center Point. It is suggested to consider increasing the budget to plan for this.

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## Appendix A: i-Tree Data

**Table 1: Annual Energy Benefits**

Annual Energy Benefits of All Trees by Species			12/14/2018						
Species	Total Electricity (MWh)	Electricity (\$)	Total Natural Gas (Therms)	Natural Gas (\$)	Total (\$)	Stand. Error	% of Total Trees	% of Total \$	Avg. \$/tree
Green ash	10.16	770.80	1,398.41	1,370.44	2,141.24	(N/A)	15.23	24.62	57.87
Silver maple	8.11	615.48	1,079.26	1,057.68	1,673.15	(N/A)	13.17	19.23	52.29
Apple	0.52	39.42	83.30	81.63	121.05	(N/A)	8.64	1.39	5.76
Sugar maple	3.83	290.33	522.89	512.44	802.77	(N/A)	7.00	9.23	47.22
Norway maple	3.57	270.78	515.51	505.20	775.98	(N/A)	6.17	8.92	51.73
Black walnut	3.88	294.20	539.35	528.56	822.77	(N/A)	5.76	9.46	58.77
Red maple	0.80	60.64	109.60	107.41	168.05	(N/A)	5.35	1.93	12.93
Northern pin oak	0.47	35.81	73.68	72.21	108.02	(N/A)	4.12	1.24	10.80
American basswood	0.54	41.17	77.29	75.74	116.91	(N/A)	3.70	1.34	12.99
Northern red oak	0.41	30.82	58.65	57.48	88.30	(N/A)	3.70	1.02	9.81
Swamp white oak	0.03	2.28	5.54	5.43	7.71	(N/A)	2.88	0.09	1.10
Pin oak	1.72	130.52	227.77	223.22	353.74	(N/A)	2.47	4.07	58.96
Northern hackberry	2.46	186.58	349.43	342.44	529.02	(N/A)	2.47	6.08	88.17
White oak	0.27	20.57	32.08	31.44	52.01	(N/A)	2.06	0.60	10.40
Amur maple	0.02	1.27	3.12	3.06	4.33	(N/A)	2.06	0.05	0.87
Honeylocust	0.56	42.74	77.69	76.13	118.87	(N/A)	2.06	1.37	23.77
Bur oak	0.72	54.80	101.47	99.44	154.24	(N/A)	1.65	1.77	38.56
River birch	0.84	63.62	115.40	113.10	176.71	(N/A)	1.65	2.03	44.18
Broadleaf Deciduous Small	0.07	5.05	11.39	11.16	16.21	(N/A)	1.23	0.19	5.40
Littleleaf linden	0.16	12.26	25.32	24.82	37.08	(N/A)	1.23	0.43	12.36
Others	2.04	154.98	281.24	275.62	430.59		7.41	4.95	28.67
Total	41.16	3,124.11	5,688.42	5,574.65	8,698.75	(N/A)	100.00	100.00	35.80

**Table 2: Annual Stormwater Benefits**

Annual Stormwater Benefits of All Trees by Species			12/14/2018			
Species	Total Rainfall Interception (Gal)	Total (\$)	Stand. Error	% of Total Trees	% of Total \$	Avg. \$/tree
Green ash	115,200.05	3,121.92	(N/A)	15.23	24.12	84.38
Silver maple	126,227.85	3,420.77	(N/A)	13.17	26.43	106.90
Apple	1,770.27	47.97	(N/A)	8.64	0.37	2.28
Sugar maple	43,677.68	1,183.67	(N/A)	7.00	9.14	69.63
Norway maple	35,012.07	948.83	(N/A)	6.17	7.33	63.26
Black walnut	42,419.38	1,149.57	(N/A)	5.76	8.88	82.11
Red maple	5,826.53	157.90	(N/A)	5.35	1.22	12.15
Northern pin oak	3,341.62	90.56	(N/A)	4.12	0.70	9.06
American basswood	8,151.27	220.90	(N/A)	3.70	1.71	24.54
Northern red oak	3,627.80	98.31	(N/A)	3.70	0.76	10.92
Swamp white oak	85.43	2.32	(N/A)	2.88	0.02	0.33
Pin oak	18,723.14	507.40	(N/A)	2.47	3.92	84.57
Northern hackberry	27,320.49	740.39	(N/A)	2.47	5.72	123.40
White oak	1,690.83	45.82	(N/A)	2.06	0.35	9.16
Amur maple	37.25	1.01	(N/A)	2.06	0.01	0.20
Honeylocust	5,531.60	149.91	(N/A)	2.06	1.16	29.98
Bur oak	9,469.25	256.62	(N/A)	1.65	1.98	64.15
River birch	5,883.43	159.44	(N/A)	1.65	1.23	39.86
Broadleaf Deciduous Small	205.97	5.58	(N/A)	1.23	0.04	1.86
Littleleaf linden	928.06	25.15	(N/A)	1.23	0.19	8.38
Others	22,495.09	609.62		7.41	4.71	41.67
Citywide total	477,625.07	12,943.64	(N/A)	100.00	100.00	53.27

**Table 3: Annual Air Quality Benefits**

Annual Air Quality Benefits of All Trees by Species				12/14/2018													
Species	Deposition O3 (lb)	Deposition NO2 (lb)	Deposition PM10 (lb)	Deposition SO2 (lb)	Total Deposition (\$)	Avoided NO2 (lb)	Avoided PM10 (lb)	Avoided VOC (lb)	Avoided SO2 (lb)	Total Avoided (\$)	BVOC Emissions (lb)	BVOC Emissions (\$)	Total (lb)	Total (\$)	Stand. Error	% of Total Trees	Avg. \$/tree
Green ash	14.33	2.29	6.83	0.64	76.25	48.56	7.07	6.73	46.03	302.33	0.00	0.00	132.49	378.58	(N/A)	15.23	10.23
Silver maple	23.28	3.94	11.28	1.03	125.08	38.32	5.60	5.35	36.67	239.51	- 12.24	- 45.92	113.24	318.68	(N/A)	13.17	9.96
Apple	0.36	0.06	0.19	0.02	1.97	2.59	0.37	0.35	2.35	15.85	0.00	- 0.01	6.28	17.82	(N/A)	8.64	0.85
Sugar maple	5.80	0.99	2.89	0.26	31.42	18.23	2.66	2.53	17.32	113.63	- 4.55	- 17.07	46.13	127.98	(N/A)	7.00	7.53
Norway maple	7.38	1.27	3.60	0.33	39.77	17.31	2.50	2.38	16.19	107.17	- 1.71	- 6.41	49.23	140.53	(N/A)	6.17	9.37
Black walnut	5.05	0.81	2.44	0.23	26.97	18.58	2.70	2.57	17.57	115.58	0.00	0.00	49.95	142.55	(N/A)	5.76	10.18
Red maple	1.23	0.21	0.59	0.05	6.60	3.81	0.56	0.53	3.62	23.75	- 0.43	- 1.62	10.17	28.73	(N/A)	5.35	2.21
Northern pin oak	0.52	0.09	0.28	0.02	2.90	2.34	0.33	0.32	2.14	14.37	- 0.14	- 0.51	5.92	16.76	(N/A)	4.12	1.68
American basswood	1.34	0.23	0.63	0.06	7.14	2.62	0.38	0.36	2.46	16.26	- 1.08	- 4.04	7.00	19.36	(N/A)	3.70	2.15
Northern red oak	0.71	0.12	0.36	0.03	3.84	1.96	0.28	0.27	1.84	12.16	- 1.03	- 3.88	4.54	12.13	(N/A)	3.70	1.35
Swamp white oak	0.00	0.00	0.00	0.00	0.01	0.16	0.02	0.02	0.14	0.94	0.00	0.00	0.34	0.96	(N/A)	2.88	0.14
Pin oak	3.29	0.58	1.69	0.15	18.03	8.13	1.19	1.14	7.79	50.84	- 6.13	- 23.00	17.82	45.87	(N/A)	2.47	7.65
Northern hackberry	4.63	0.80	2.29	0.21	25.05	11.87	1.72	1.64	11.15	73.64	0.00	0.00	34.30	98.69	(N/A)	2.47	16.45
White oak	0.11	0.02	0.07	0.01	0.65	1.25	0.19	0.18	1.23	7.89	0.00	0.00	3.05	8.54	(N/A)	2.06	1.71
Amur maple	0.00	0.00	0.00	0.00	0.01	0.09	0.01	0.01	0.08	0.53	0.00	0.00	0.19	0.53	(N/A)	2.06	0.11
Honeylocust	1.02	0.17	0.48	0.05	5.41	2.69	0.39	0.37	2.55	16.74	- 0.80	- 3.01	6.91	19.13	(N/A)	2.06	3.83
Bur oak	1.29	0.21	0.59	0.06	6.79	3.47	0.50	0.48	3.27	21.56	0.00	0.00	9.87	28.35	(N/A)	1.65	7.09
River birch	0.98	0.17	0.51	0.04	5.40	4.02	0.58	0.56	3.80	25.00	- 0.25	- 0.94	10.42	29.46	(N/A)	1.65	7.37
Broadleaf Deciduous Small	0.01	0.00	0.01	0.00	0.08	0.34	0.05	0.05	0.30	2.05	0.00	0.00	0.76	2.13	(N/A)	1.23	0.71
Littleleaf linden	0.07	0.01	0.05	0.00	0.43	0.80	0.11	0.11	0.73	4.92	- 0.05	- 0.19	1.85	5.16	(N/A)	1.23	1.72
Others	3.30	0.55	1.64	0.16	17.83	9.75	1.42	1.35	9.25	60.74	- 0.89	- 3.35	26.53	75.23		7.41	5.09
Citywide Total	74.70	12.51	36.43	3.34	401.66	196.89	28.64	27.29	186.48	1,225.45	- 29.32	- 109.94	536.98	1,517.17	(N/A)	100.00	6.24

**Table 4: Annual Carbon Stored**

Stored CO2 Benefits of All Trees by Species		12/14/2018				
Species	Total stored CO2 (lbs)	Total (\$)	Stand. Error	% of Total Trees	% of Total \$	Avg. \$/tree
Green ash	466,736.00	3,500.52	(N/A)	15.23	24.44	94.61
Silver maple	559,938.50	4,199.54	(N/A)	13.17	29.32	131.24
Apple	6,487.23	48.65	(N/A)	8.64	0.34	2.32
Sugar maple	167,048.22	1,252.86	(N/A)	7.00	8.75	73.70
Norway maple	121,725.19	912.94	(N/A)	6.17	6.37	60.86
Black walnut	162,680.58	1,220.10	(N/A)	5.76	8.52	87.15
Red maple	13,922.33	104.42	(N/A)	5.35	0.73	8.03
Northern pin oak	9,104.97	68.29	(N/A)	4.12	0.48	6.83
American basswood	54,088.97	405.67	(N/A)	3.70	2.83	45.07
Northern red oak	15,861.43	118.96	(N/A)	3.70	0.83	13.22
Swamp white oak	117.87	0.88	(N/A)	2.88	0.01	0.13
Pin oak	87,114.35	653.36	(N/A)	2.47	4.56	108.89
Northern hackberry	71,669.15	537.52	(N/A)	2.47	3.75	89.59
White oak	3,893.79	29.20	(N/A)	2.06	0.20	5.84
Amur maple	68.92	0.52	(N/A)	2.06	0.00	0.10
Honeylocust	13,358.11	100.19	(N/A)	2.06	0.70	20.04
Bur oak	41,740.24	313.05	(N/A)	1.65	2.19	78.26
River birch	16,294.28	122.21	(N/A)	1.65	0.85	30.55
Broadleaf Deciduous Small	533.37	4.00	(N/A)	1.23	0.03	1.33
Littleleaf linden	2,061.83	15.46	(N/A)	1.23	0.11	5.15
Others	95,286.27	714.65		7.41	4.99	49.21
Citywide total	1,909,731.62	14,322.99	(N/A)	100.00	100.00	58.94



**Table 5: Annual Carbon Sequestered**

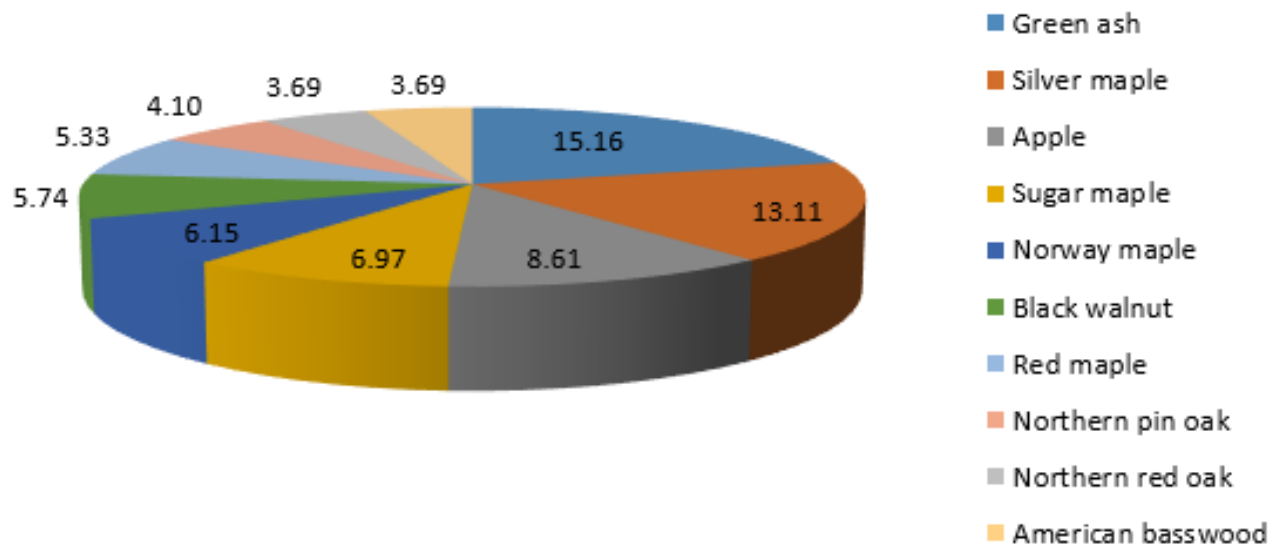
Annual CO2 Benefits of All Trees by Species				12/14/2018									
Species	Sequestered (lb)	Sequestered (\$)	Decomposition Release(lb)	Maintenance Release (lb)	Total Release (\$)	Avoided (lb)	Avoided (\$)	Net Total (lb)	Total (\$)	Stand. Error	% of Total Trees	% of Total \$	Avg. \$/tree
Green ash	24,440.30	183.30	- 2,240.33	- 107.06	- 17.61	17,034.48	127.76	39,127.39	293.46	(N/A)	15.23	22.66	7.93
Silver maple	37,961.25	284.71	- 2,694.10	- 97.31	- 20.94	13,601.86	102.01	48,771.70	365.79	(N/A)	13.17	28.25	11.43
Apple	844.64	6.33	- 31.76	- 9.95	- 0.31	871.10	6.53	1,674.05	12.56	(N/A)	8.64	0.97	0.60
Sugar maple	8,776.31	65.82	- 803.34	- 42.51	- 6.34	6,416.25	48.12	14,346.71	107.60	(N/A)	7.00	8.31	6.33
Norway maple	5,112.84	38.35	- 585.03	- 37.05	- 4.67	5,984.19	44.88	10,474.95	78.56	(N/A)	6.17	6.07	5.24
Black walnut	9,585.35	71.89	- 780.87	- 40.56	- 6.16	6,501.85	48.76	15,265.78	114.49	(N/A)	5.76	8.84	8.18
Red maple	1,762.41	13.22	- 67.31	- 8.78	- 0.57	1,340.10	10.05	3,026.42	22.70	(N/A)	5.35	1.75	1.75
Northern pin oak	969.66	7.27	- 47.41	- 6.44	- 0.40	791.39	5.94	1,707.20	12.80	(N/A)	4.12	0.99	1.28
American basswood	2,691.94	20.19	- 259.83	- 8.58	- 2.01	909.84	6.82	3,333.37	25.00	(N/A)	3.70	1.93	2.78
Northern red oak	189.92	1.42	- 76.34	- 6.24	- 0.62	681.11	5.11	788.45	5.91	(N/A)	3.70	0.46	0.66
Swamp white oak	37.93	0.28	- 0.94	- 1.37	- 0.02	50.33	0.38	85.96	0.64	(N/A)	2.88	0.05	0.09
Pin oak	7,910.77	59.33	- 418.15	- 18.14	- 3.27	2,884.51	21.63	10,358.99	77.69	(N/A)	2.47	6.00	12.95
Northern hackberry	3,439.81	25.80	- 344.01	- 24.18	- 2.76	4,123.27	30.92	7,194.89	53.96	(N/A)	2.47	4.17	8.99
White oak	527.30	3.95	- 18.81	- 3.12	- 0.16	454.70	3.41	960.07	7.20	(N/A)	2.06	0.56	1.44
Amur maple	43.42	0.33	- 0.55	- 0.98	- 0.01	28.07	0.21	69.95	0.52	(N/A)	2.06	0.04	0.10
Honeylocust	267.54	2.01	- 64.78	- 4.88	- 0.52	944.47	7.08	1,142.36	8.57	(N/A)	2.06	0.66	1.71
Bur oak	1,821.65	13.66	- 200.43	- 8.19	- 1.56	1,211.08	9.08	2,824.11	21.18	(N/A)	1.65	1.64	5.30
River birch	1,465.76	10.99	- 78.21	- 7.80	- 0.65	1,405.89	10.54	2,785.64	20.89	(N/A)	1.65	1.61	5.22
Broadleaf Deciduous Sma	113.82	0.85	- 2.56	- 1.76	- 0.03	111.57	0.84	221.07	1.66	(N/A)	1.23	0.13	0.55
Littleleaf linden	464.68	3.49	- 9.94	- 2.54	- 0.09	270.91	2.03	723.11	5.42	(N/A)	1.23	0.42	1.81
Others	4,833.78	36.25	- 458.66	- 26.13	- 3.64	3,424.95	25.69	7,773.95	58.30		7.41	4.50	3.59
Citywide Total	113,261.07	849.46	- 9,183.36	- 463.52	- 72.35	69,041.92	517.81	172,656.12	1,294.92	(N/A)	100.00	100.00	5.33

**Table 6: Annual Social and Aesthetic Benefits**

Annual Aesthetic/Other Benefit of All Trees by Species				12/14/2018	
Species	Total (\$)	Stand. Error	% of Total Trees	% of Total \$	Avg. \$/tree
Green ash	2,001.22	(N/A)	15.23	20.63	54.09
Silver maple	2,924.82	(N/A)	13.17	30.16	91.40
Apple	41.33	(N/A)	8.64	0.43	1.97
Sugar maple	909.02	(N/A)	7.00	9.37	53.47
Norway maple	477.24	(N/A)	6.17	4.92	31.82
Black walnut	789.94	(N/A)	5.76	8.14	56.42
Red maple	234.97	(N/A)	5.35	2.42	18.07
Northern pin oak	118.43	(N/A)	4.12	1.22	11.84
American basswood	175.05	(N/A)	3.70	1.80	19.45
Northern red oak	29.32	(N/A)	3.70	0.30	3.26
Swamp white oak	19.15	(N/A)	2.88	0.20	2.74
Pin oak	610.35	(N/A)	2.47	6.29	101.73
Northern hackberry	414.41	(N/A)	2.47	4.27	69.07
White oak	76.38	(N/A)	2.06	0.79	15.28
Amur maple	0.17	(N/A)	2.06	0.00	0.03
Honeylocust	39.88	(N/A)	2.06	0.41	7.98
Bur oak	142.72	(N/A)	1.65	1.47	35.68
River birch	147.59	(N/A)	1.65	1.52	36.90
Broadleaf Deciduous Small	6.17	(N/A)	1.23	0.06	2.06
Littleleaf linden	65.13	(N/A)	1.23	0.67	21.71
Others	475.54		7.41	4.90	28.44
Citywide Total	9,698.83	(N/A)	100.00	100.00	39.91

**Table 7: Summary of Benefits in Dollars**

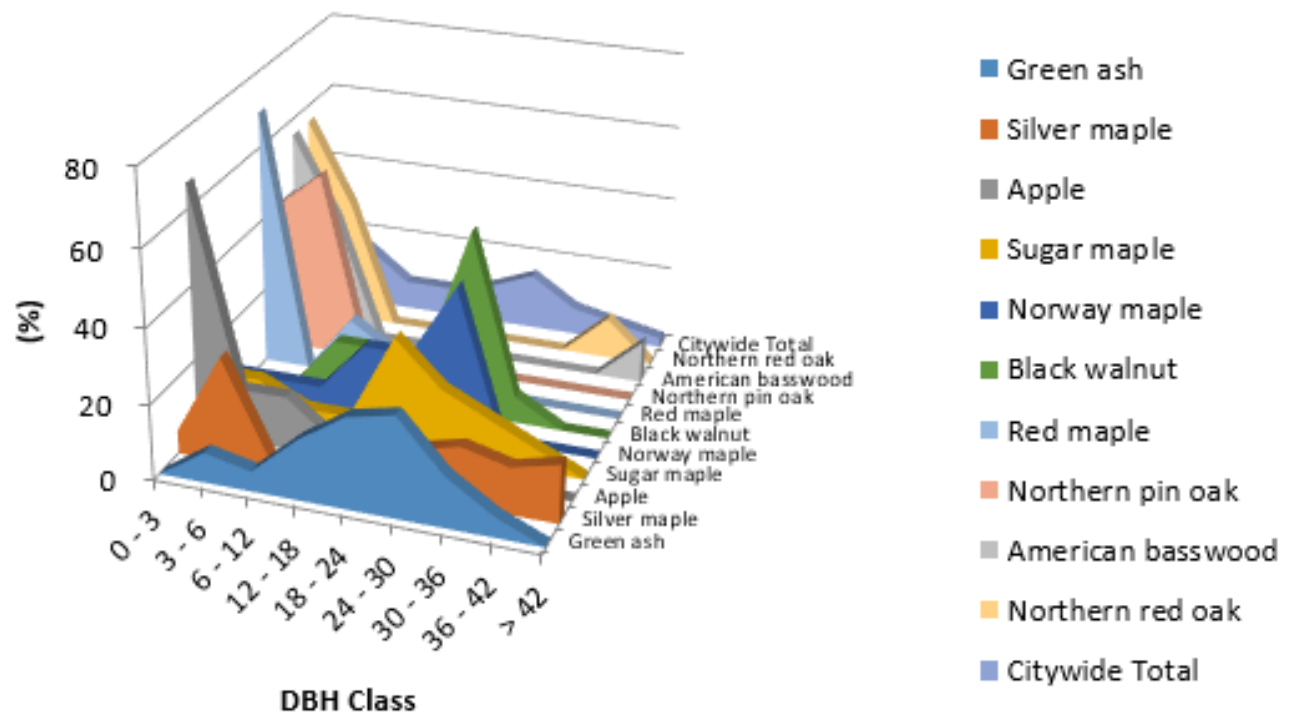
Average Annual Benefits of All Tree by Species (\$/tree)					12/14/2018		
Species	Energy	CO2	Air Quality	Stormwater	Aesthetic/Other	Total	Standa
Green ash	57.87	7.93	10.23	84.38	54.09	214.50	(N/A)
Silver maple	52.29	11.43	9.96	106.90	91.40	271.98	(N/A)
Apple	5.76	0.60	0.85	2.28	1.97	11.46	(N/A)
Sugar maple	47.22	6.33	7.53	69.63	53.47	184.18	(N/A)
Norway maple	51.73	5.24	9.37	63.26	31.82	161.41	(N/A)
Black walnut	58.77	8.18	10.18	82.11	56.42	215.67	(N/A)
Red maple	12.93	1.75	2.21	12.15	18.07	47.10	(N/A)
Northern pin oak	10.80	1.28	1.68	9.06	11.84	34.66	(N/A)
American basswood	12.99	2.78	2.15	24.54	19.45	61.91	(N/A)
Northern red oak	9.81	0.66	1.35	10.92	3.26	26.00	(N/A)
Swamp white oak	1.10	0.09	0.14	0.33	2.74	4.40	(N/A)
Pin oak	58.96	12.95	7.65	84.57	101.73	265.84	(N/A)
Northern hackberry	88.17	8.99	16.45	123.40	69.07	306.08	(N/A)
White oak	10.40	1.44	1.71	9.16	15.28	37.99	(N/A)
Amur maple	0.87	0.10	0.11	0.20	0.03	1.31	(N/A)
Honeylocust	23.77	1.71	3.83	29.98	7.98	67.27	(N/A)
Bur oak	38.56	5.30	7.09	64.15	35.68	150.78	(N/A)
River birch	44.18	5.22	7.37	39.86	36.90	133.52	(N/A)
Broadleaf Deciduous Small	5.40	0.55	0.71	1.86	2.06	10.58	(N/A)
Littleleaf linden	12.36	1.81	1.72	8.38	21.71	45.98	(N/A)
Others	28.67	3.59	5.09	41.67	28.44	107.47	
Citywide Total	35.80	5.33	6.24	53.27	39.91	140.55	(N/A)



Species Distribution of All Trees for 12/14/2018	
Species	Percent
Green ash	15.16
Silver maple	13.11
Apple	8.61
Sugar maple	6.97
Norway maple	6.15
Black walnut	5.74
Red maple	5.33
Northern pin oak	4.10
Northern red oak	3.69
American basswood	3.69
Other Species	27.46

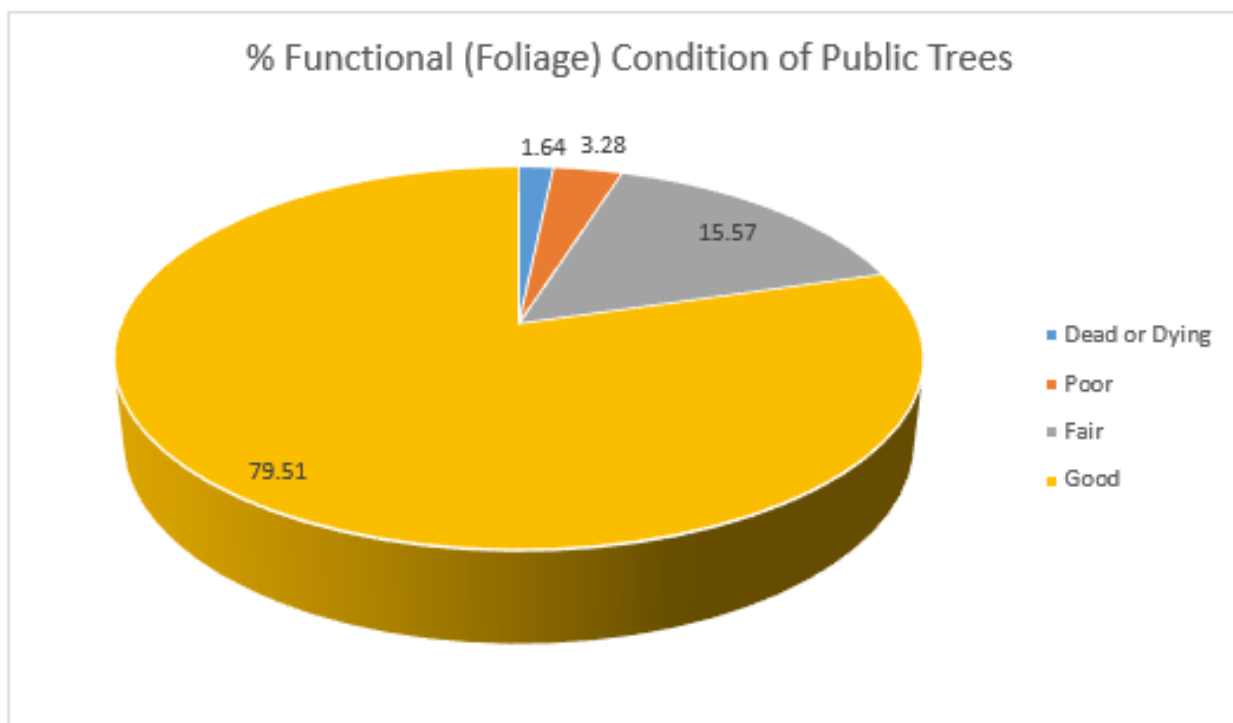
**Figure 1: Species Distribution**

## Relative Age Distribution of Top 10 All Tree Species (%)

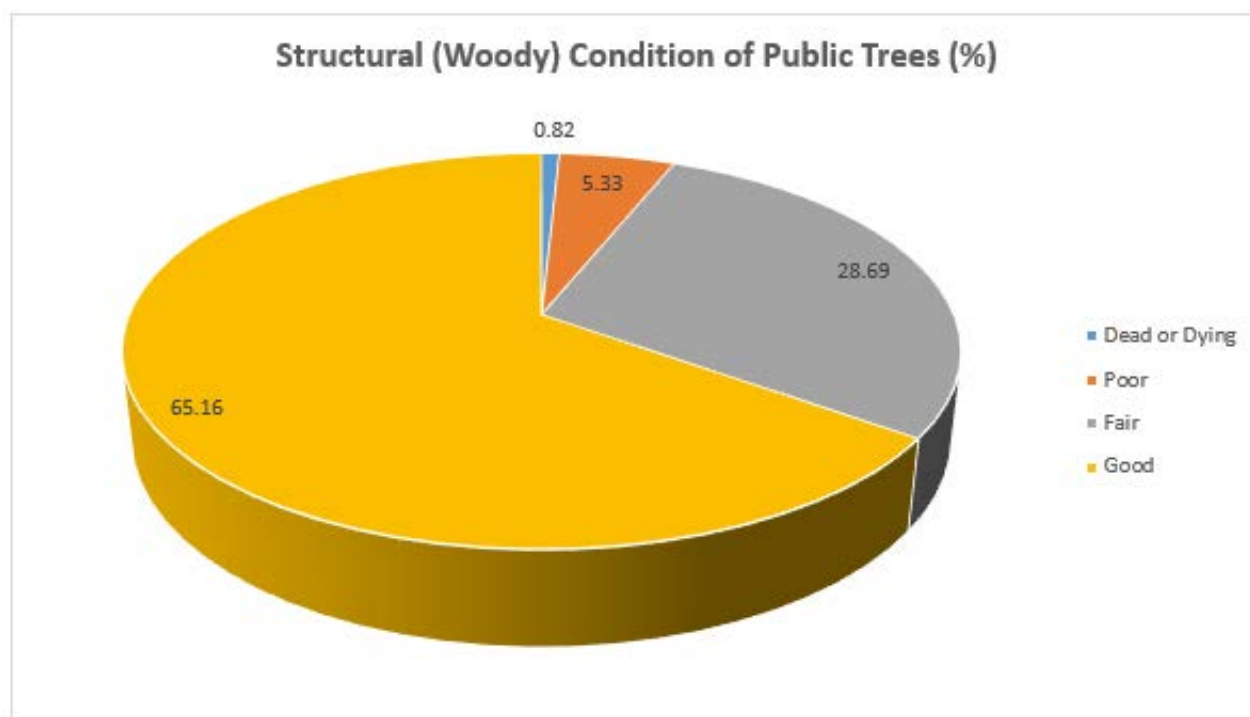


Relative Age Distribution of Top 10 All Tree Species (%)					12/14/2018				
Species	0 - 3	3 - 6	6 - 12	12 - 18	18 - 24	24 - 30	30 - 36	36 - 42	> 42
Green ash	0.00	8.11	5.41	16.22	24.32	27.03	13.51	5.41	0.00
Silver maple	6.25	28.13	3.13	0.00	6.25	12.50	15.63	12.50	15.63
Apple	66.67	14.29	14.29	4.76	0.00	0.00	0.00	0.00	0.00
Sugar maple	11.76	11.76	5.88	5.88	29.41	17.65	11.76	5.88	0.00
Norway maple	6.67	6.67	6.67	20.00	20.00	40.00	0.00	0.00	0.00
Black walnut	0.00	0.00	14.29	14.29	14.29	50.00	7.14	0.00	0.00
Red maple	69.23	0.00	15.38	7.69	7.69	0.00	0.00	0.00	0.00
Northern pin oak	40.00	50.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00
American basswood	55.56	33.33	0.00	0.00	0.00	0.00	0.00	0.00	11.11
Northern red oak	55.56	33.33	0.00	0.00	0.00	0.00	0.00	11.11	0.00
Citywide Total	27.05	16.80	7.79	7.79	10.25	15.16	7.38	4.92	2.46

Figure 2: Relative Age Class

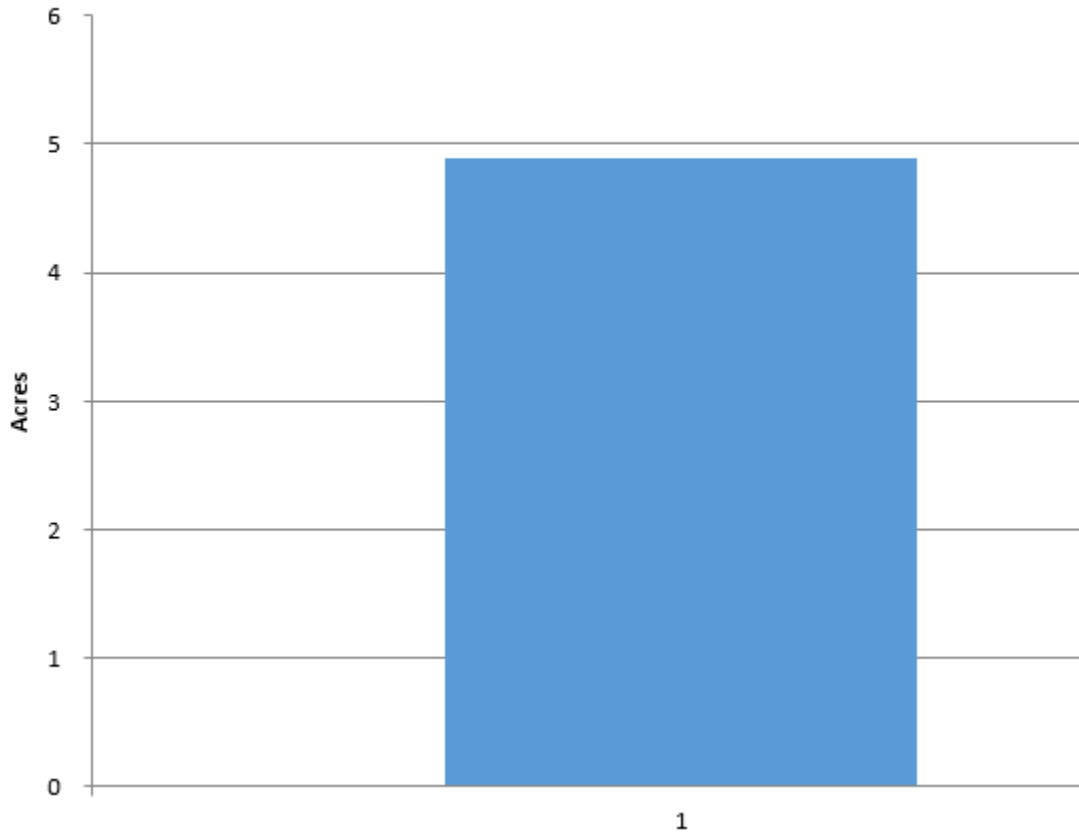


**Figure 3: Foliage Condition**



**Figure 4: Wood Condition**

### Canopy Cover of All Trees (Acres)

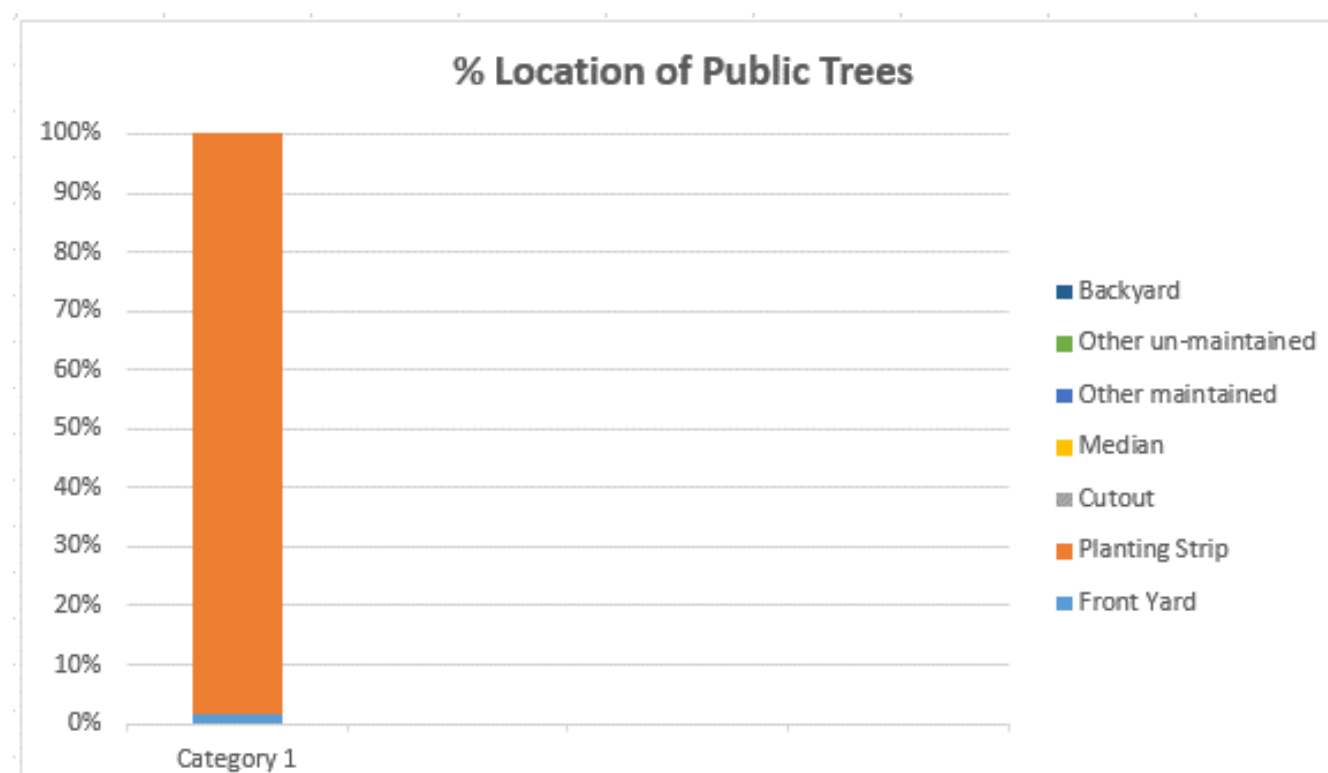


Canopy Cover of All Trees (Acres)		12/14/2018
Zone	Acres	% of Total Canopy
1	4.89	1.58
Citywide Total	310.00	100.00

**Figure 5: Canopy Cover in Acres**



**Figure 6: Land Use of city/park trees**



**Figure 7: Location of city/park trees**



## Appendix B: ArcGIS Mapping

**Figure 1:**

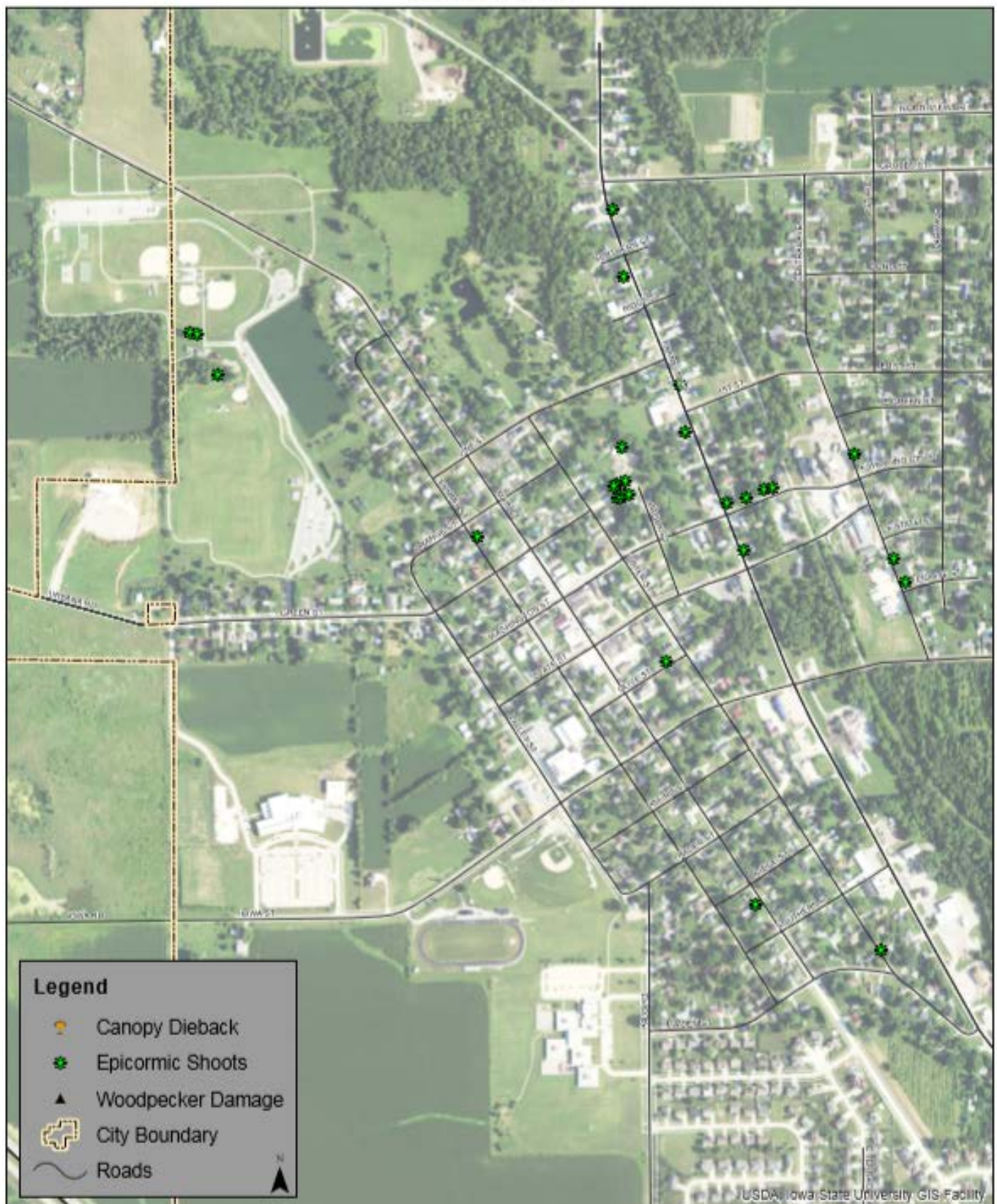
Location of Ash Trees  
2018 Community Tree Inventory  
Center Point, IA





**Figure 2:**

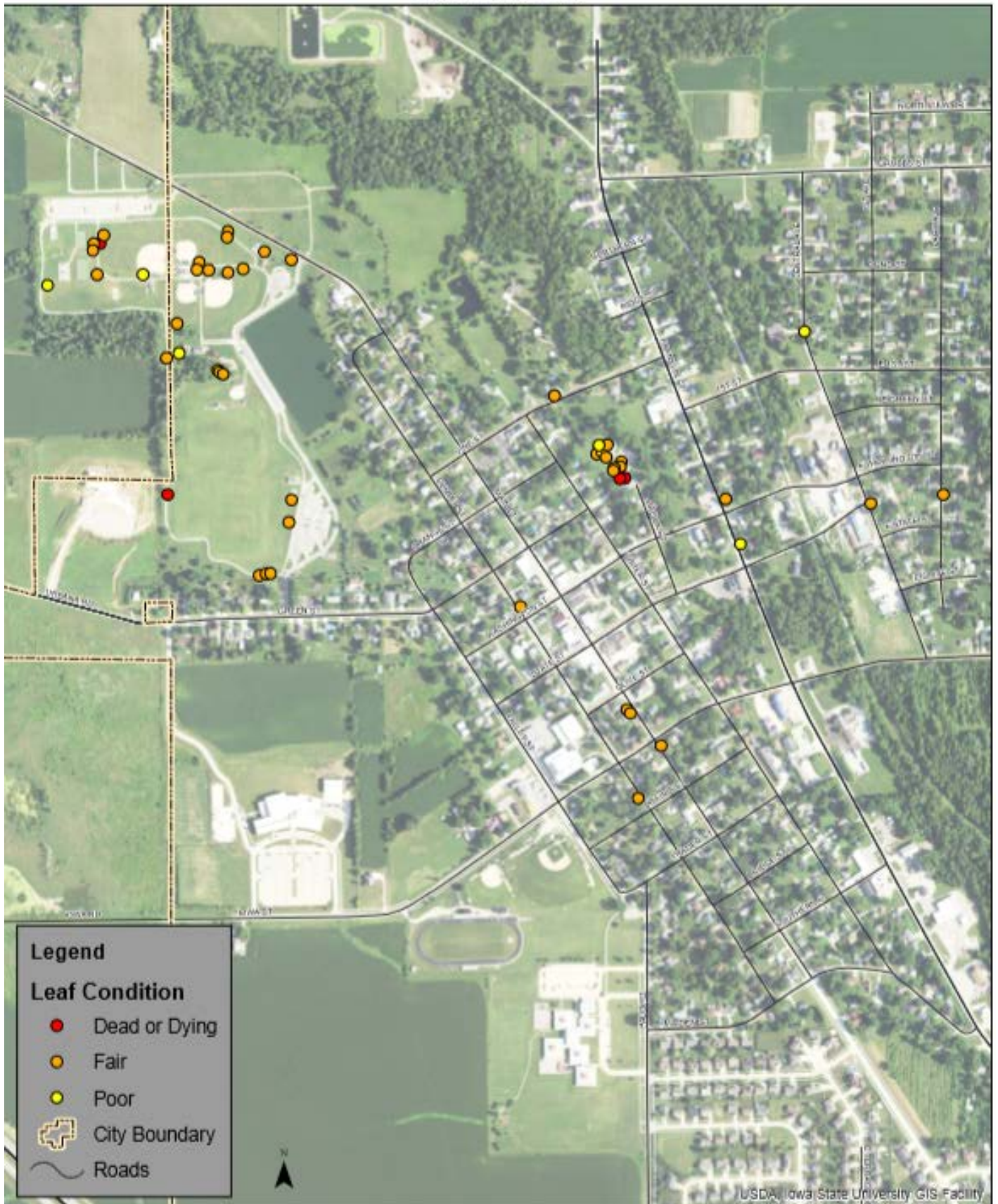
Location of EAB Symptoms  
2018 Community Tree Inventory  
Center Point, IA





**Figure 3a:**

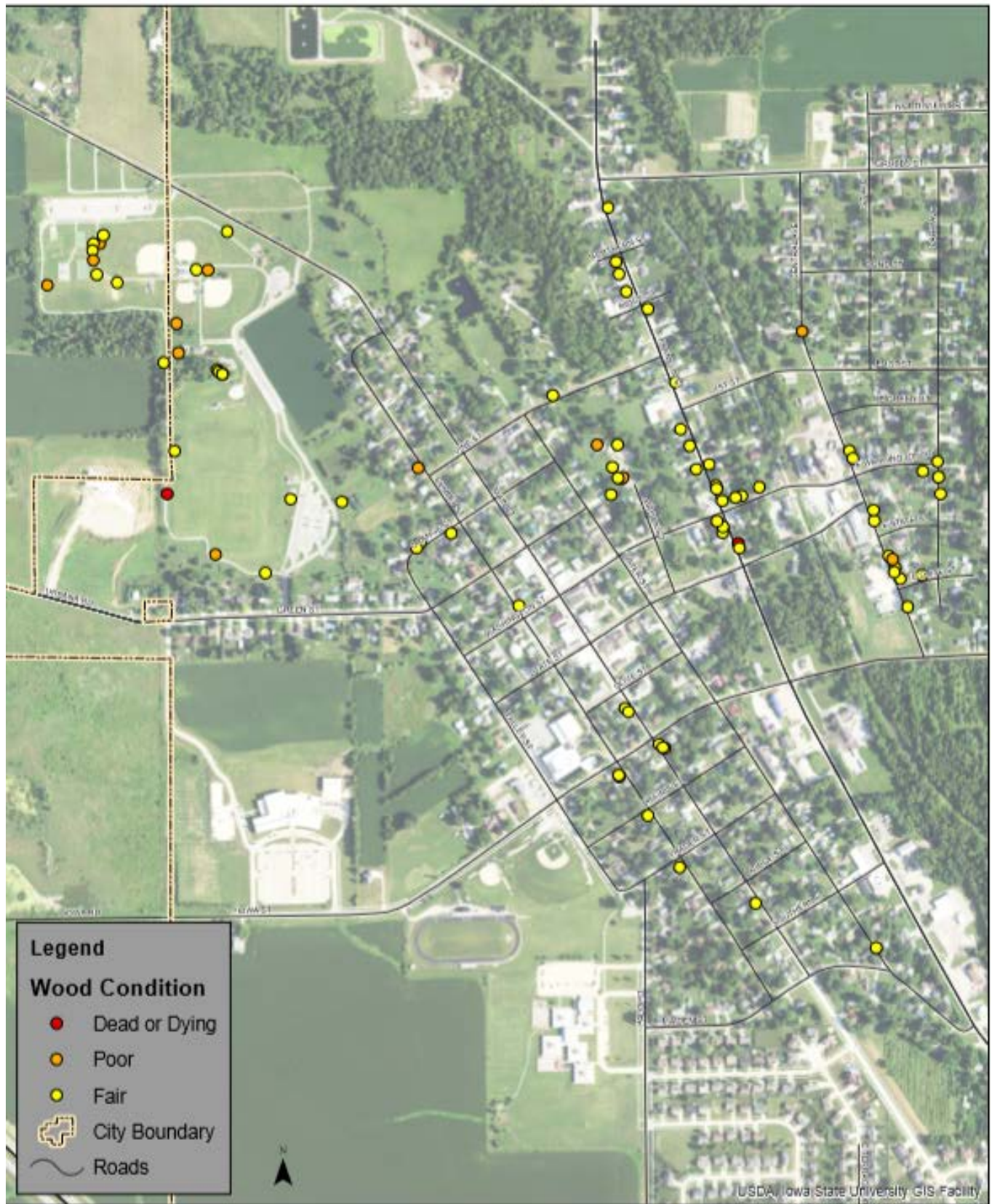
**Location of Poor Condition Trees  
2018 Community Tree Inventory  
Center Point, IA**





**Figure 3b:**

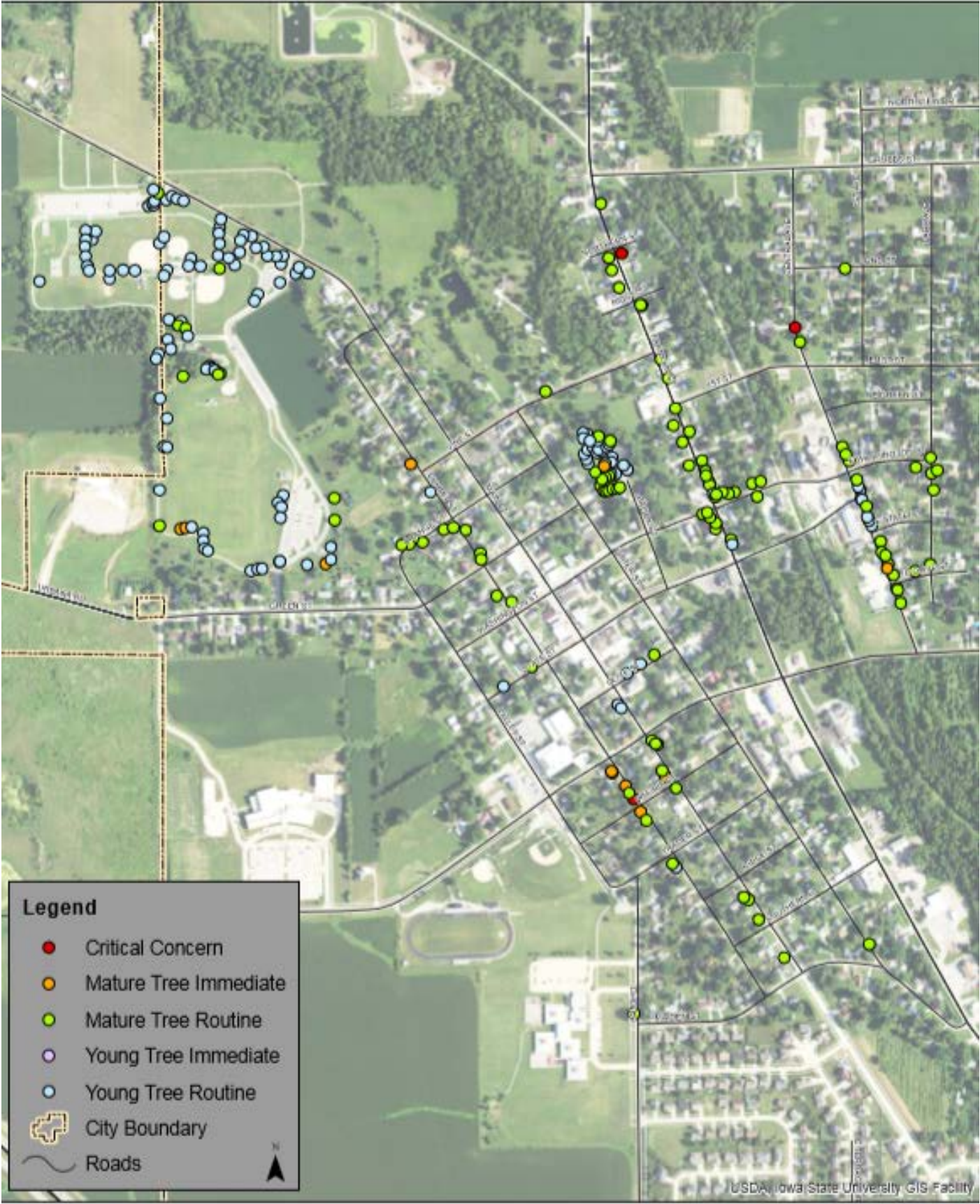
Location of Poor Condition Trees  
2018 Community Tree Inventory  
Center Point, IA





Location of Trees with Recommended Maintenance  
2018 Community Tree Inventory  
Center Point, IA

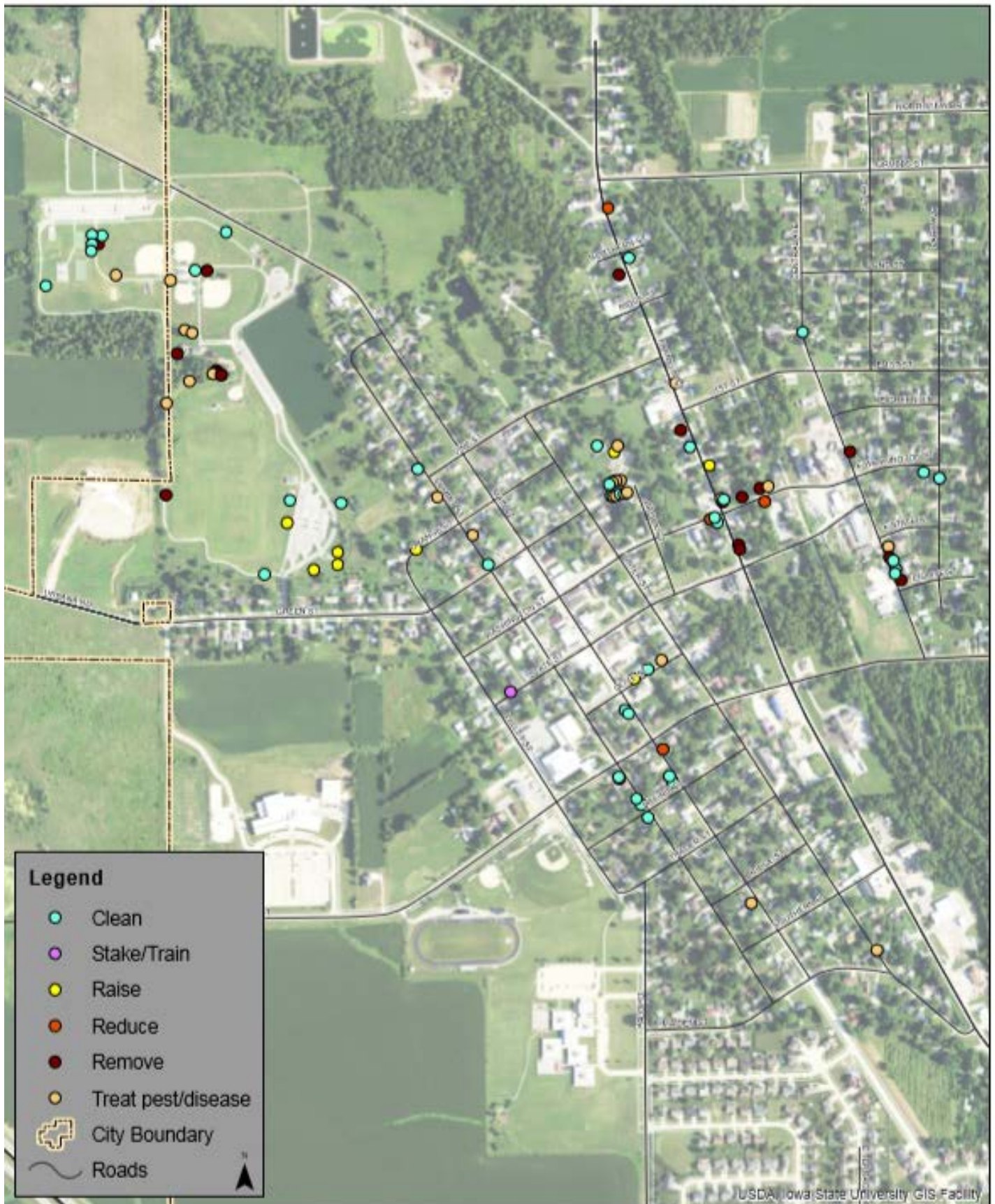
Figure 4:





**Figure 5:**

**Maintenance Tasks  
2018 Community Tree Inventory  
Center Point, IA**





**Figure 6:**

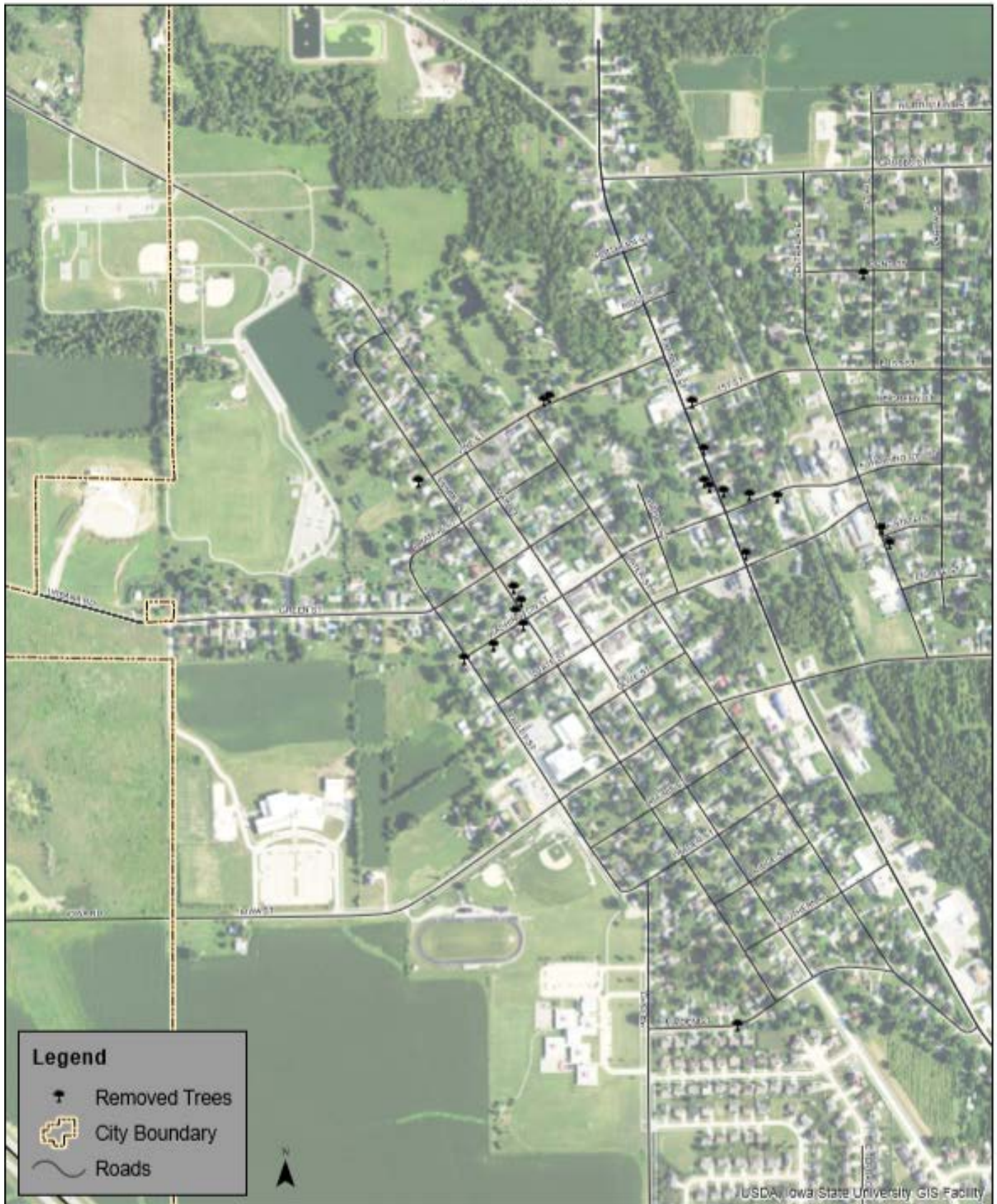
**Location of Treatable Ash Trees  
2018 Community Tree Inventory  
Center Point, IA**





**Figure 7:**

**Removed Trees  
2018 Community Tree Inventory  
Center Point, IA**



## Appendix C: Center Point Tree Ordinances

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**151.01 Definition 151.04 Trimming Trees to be Supervised**

**151.02 Planting Restrictions 151.05 Disease Control**

**151.03 Duty to Trim Trees 151.06 Inspection and Removal**

**151.01 DEFINITION.** For use in this chapter, “parking” means that part of the street, avenue or highway in the City not covered by sidewalk and lying between the lot line and the curb line; or, on unpaved streets, that part of the street, avenue or highway lying between the lot line and that portion of the street usually traveled by vehicular traffic.

**151.02 PLANTING RESTRICTIONS.** No tree shall be planted in any City right-of-way without Council approval. If Council approval has been obtained, planting shall be in accordance with the following:

1. **Alignment.** All trees planted in any street shall be planted in the parking midway between the outer line of the sidewalk and the curb. In the event a curb line is not established, trees shall be planted on a line ten (10) feet from the property line.

2. **Spacing.** Trees shall not be planted on any parking which is less than nine (9) feet in width, or contains less than eighty-one (81) square feet of exposed soil surface per tree. Trees shall not be planted closer than twenty (20) feet from street intersections (property lines extended) and ten (10) feet from driveways. If it is at all possible trees should be planted inside the property lines and not between the sidewalk and the curb.

3. **Prohibited Trees in the Street.** No person shall plant adjacent to all streets, any fruit-bearing tree or any tree of the kinds commonly known as cottonwood, poplar, box elder, Chinese elm, evergreen, willow or black walnut.

4. **Prohibited Trees.** The following trees shall not be planted within the City of Center Point without Council approval:

1. Boxelder    7. Black Locust

2. Poplars    8. Tree of Heaven

3. Willows    9. Catalpa

4. Silver Maple    10. European Mt. Ash

5. Weeping Birch    11. Cottonwood

6. Siberian Elm    12. American Elm



151.03 DUTY TO TRIM TREES. The owner or agent of the abutting property shall keep the trees on, or overhanging the street, trimmed so that all branches will be at least fifteen (15) feet above the surface of the street and eight (8) feet above the sidewalks. If the abutting property owner fails to trim the trees, the City may serve notice on the abutting property

#### CHAPTER 151 TREES

#### CODE OF ORDINANCES, CENTER POINT, IOWA

· 836 -owner requiring that such action be taken within five (5) days. If such action is not taken within that time, the City may perform the required action and assess the costs against the abutting property for collection in the same manner as a property tax.

(Code of Iowa, Sec. 364.12[2c, d & e])

151.04 TRIMMING TREES TO BE SUPERVISED. Except as allowed in Section 151.03, it is unlawful for any person to trim or cut any tree in a street or public place unless the work is done under the supervision of the City.

151.05 DISEASE CONTROL. Any dead, diseased or damaged tree or shrub which may harbor serious insect or disease pests or disease injurious to other trees is hereby declared to be a nuisance.

151.06 INSPECTION AND REMOVAL. The Council shall inspect or cause to be inspected any trees or shrubs in the City reported or suspected to be dead, diseased or damaged, and such trees and shrubs shall be subject to the following:

1. City Property. If it is determined that any such condition exists on any public property, including the strip between the curb and the lot line of private property, the Council may cause such condition to be corrected by treatment or removal. The Council may also order the removal of any trees on the streets of the City which interfere with the making of improvements or with travel thereon.

2. Private Property. If it is determined with reasonable certainty that any such condition exists on private property and that danger to other trees or to adjoining property or passing motorists or pedestrians is imminent, the Council shall notify by certified mail the owner, occupant or person in charge of such property to correct such condition by treatment or removal within fourteen (14) days of said notification. If such owner, occupant or person in charge of said property fails to comply within 14 days of receipt of notice, the Council may cause the condition to be corrected and the cost assessed against the property.

The State of Iowa is an Equal Opportunity Employer and provider of ADA services.

Federal law prohibits employment discrimination on the basis of race, color, age, religion, national origin, sex or disability. State law prohibits employment discrimination on the basis of race, color, creed, age, sex, sexual orientation, gender identity, national origin, religion, pregnancy, or disability. State law also prohibits public accommodation (such as access to services or physical facilities) discrimination on the basis of race, color, creed, religion, sex, sexual orientation, gender identity, religion, national origin, or disability. If you believe you have been discriminated against in any program, activity or facility as described above, or if you desire further information, please contact the Iowa Civil Rights Commission, 1-800-457-4416, or write to the Iowa Department of Natural Resources, Wallace State Office Bldg., 502 E 9<sup>th</sup> St, Des Moines IA 50319.

If you need accommodations because of disability to access the services of this Agency, please contact the Director at 515-725-8200.