Tree Campus USA: The Future of Allegheny's Trees



By
Autumn S. Clark
Department of Environmental Science
Department of Psychology
Allegheny College
Meadville, Pennsylvania

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Dr. Rich Bowden	**Date**	***Dr. Elizabeth Ozorak***	**Date**

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Pledge

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Abstract

Allegheny College has been ranked 5th of the 25 most beautiful colleges in Pennsylvania (Gitlen, 2018). When we consider what plays into that ranking we first look to the historic buildings and the rolling grounds; but often overlooked are the incredible trees that cover campus. This project is an application for The Arbor Day Foundation that includes a campus tree advisory committee, campus tree care plan, dedicated annual expenditures report, an Arbor Day observance, and a service learning project. This application is accompanied by a literature review that explores the importance of trees, both ecologically and socially. If as a college we have a management plan for care to the buildings and lands, we should have a management plan to care for the trees as well. We have a duty to preserve the health, beauty, and legacy of our trees for the future Gators of Allegheny College.

Introduction

The student body of Allegheny College is made up of around 1,800 students (Allegheny College, n.d.). The central campus of the college sits on 79 acres in Meadville, Pennsylvania. What the About Allegheny page on the Allegheny.edu site does not state is that the 79 central campus acres contains 989 trees. These hundreds of trees hold significant importance to the ecological and social communities in which they reside.

The Arbor Day Foundation is a way for our campus community to engage with the trees. The Arbor Day Foundation leads the way in management and practices that ensure tree and forest health. They are a social network that connects forests and trees to the people who care for them. They provide education and structure to communities so that each community has an opportunity to care for their trees to the best of their ability.

The Arbor Day Foundation was founded in 1972 with the mission of "We inspire people to plant, nurture, and celebrate trees" (Arbor Day Foundation, 2015). In its 46 years since being founded the Arbor Day Foundation has created many programs and partnerships to ensure that trees will continue to be planted and cared for long into the future.

In 1976 the first Arbor Day Foundation program was created named Tree City USA. This program is focused on providing structure for management and expansion of public trees for communities across the nation (Arbor Day Foundation, n.d.). This program now has more than 3,400 cities involved in its mission. Meadville has been a member of this program for 25 years.

The Arbor Day Foundation has expanded from Tree City USA to programs that benefit many different cities, forests, and countries. They work to replant National Forests in conjunction with the U.S. Forest Service to combat tree loss due to fire, disease, and insect infestations. Tree Line USA which works to educate utility companies on tree care practices. They also have corporate partnerships with companies such as Enterprise, FedEx and Verizon that have planted more than 250 million trees since 1972

(Arbor Day Foundation, 2015). Their work links trees to other causes and issues such as water quality, air quality, climate change, conservation education, poverty, and hunger.

Tree Campus USA is one of the newest Arbor Day Foundation programs, founded in 2008. This program is modeled after Tree City USA, but is targeted at college and university campuses. Through student engagement, service, education, and future planning colleges and universities are working with the Arbor Day Foundation to care for their trees. At this time 344 colleges and universities are Tree Campus USA certified ranging from community colleges, to small private colleges, to urban medical campuses. This list includes institutions well known to Allegheny such as The College of Wooster, Kenyon College, and Denison University (Arbor Day Foundation (2), n.d.).

Meadville Pennsylvania has been a member of Tree City USA for the past 25 years. PPL utilities that service the utilities lines of Meadville have been Tree Line USA certified for 11 of the past 13 years. 8 of the locally operated national Arbor Day partner companies call Meadville home. This application will ensure that Allegheny College joins the Meadville community in caring for our trees.

Background

Allegheny's Campus

When considering the best way to manage the trees of Allegheny's campus we must first consider what type of 'forest' the campus really is. Is it truly a forest? Is it an arboretum? Or is it somewhere on a spectrum in between the two?

Formally, a forest is said to be a large space that is densely covered in trees and underbrush (Forest, n.d.). This definition describes sections of the 79 central campus acres. Arboretum better describes the park like sections of campus, as an arboretum is a managed education and scientific space of trees and other plants (Arboretum, n.d.). Klehm Arboretum & Botanic Garden twists this definition and includes in it the concept that is it a carefully selected collection of trees (Klehm Arboretum & Botanic Garden, n.d.).

In an interview on the difference between the practices of forestry and

arboriculture, it is noted that each practice provides different skills but the long term goals balance immediate action and longevity is similar between the two (Pro Arb, 2016). This suggests that the spectrum is more technical in nature and that the end goals are not that different in the long run. It is also explained that the two different professions and fields have come together due to the greening of urban spaces and urban forestry.(Pro Arb, 2016).

Urban forestry is described as broader than arboriculture and focuses on the planning and managing of trees on the individual scale, in groups, and as a part of a developed location (U.S. Cooperative Extension System, 2016). In looking at the concept of urban forestry the term 'urban' is being applied with a very broad definition suggesting that all areas in, around, and close to cities constitutes as urban (Konijnendijk, C. et al., 2006).

Considering these definitions, it is evident that the campus is composed of areas that could be defined as forested land and an arboretum, built around and within a developed settings where specific and groups of trees are cared for differently. This intersection of management and design makes Allegheny a prime example of modern urban forestry. To manage all areas of the campus most effectively, a combination of techniques including both forest management and arboriculture must be done.

Creating a Management Plan

Forest management varies from forest to forest depending on many variables such as location or objective. A North Central Forest Management Guide created by the USDA and The university of Minnesota was titled "Forest Management 101" and breaks down the variables we must consider before designing our management plan. (Ek, A., et al. 2006).

The four factors to consider are: 1) The management objective (what will the forest be used for), 2) The makeup of the forest (What species are there), 3) The health of the forest (what state is the forest in), and 4) The silviculture system (if any, what treatments will be used) (Ek, A., et al 2006). The key to success as suggested by the 'Forest Management 101' handbook is aligning your needs with the best practices in

forestry (Ek, A., et al. 2006). Applying best practices helps to ensure sustainability and minimize future negative impacts.

Climate Change

On a larger scale, the changing climate and global warming of the planet ultimately will affect many aspects of all life. There is a great deal of evidence that supports this, NASA compiled the following evidence: global temperature rise, warming oceans, shrinking ice sheets, glacial retreat, decreased snow cover, sea level rise, declining arctic seas, extreme events, and ocean acidification (NASA. n.d.). Scientists believe that the greenhouse effect, "warming that results when the atmosphere traps heat radiating from Earth toward space" is the primary cause of these changes (Oreskes, N. 2004). It is also reasonable to assume that human activities have warmed the planet over the past 50 years (Change, I.P.O.C., 2014).

There are many changes that could occur, there are many that already have. NASA states that "Glaciers have shrunk, ice on rivers and lakes is breaking up earlier, plant and animal ranges have shifted and trees are flowering sooner" (NASA. (2). n.d.). Some of the future effects of climate change are said to be that Change will continue through this century and beyond, Temperatures will continue to rise, Frost-free season (and growing season) will lengthen, Changes in precipitation patterns, more droughts and heat waves, and many other changes (NASA. (2). n.d.).

These changes will directly affect forests all over the globe. As temperatures rise certain regions will no longer be suitable habitats for certain species. This is already resulting in a range change for the species and then increased mortality of trees in their no longer hospitable historic ranges (U.S. Forest Service., 2010). Changes in precipitation patterns resulting in areas of higher rainfall and areas of drought will also change ranges of species.

Ecological Importance of Trees

Air pollution is described as both the natural and synthetic materials in the air (National Institute of Environmental Health Sciences, 2018). Research states that reducing air pollution levels can in turn reduce heart disease, lung cancer, and respiratory

diseases such as asthma. (World Health Organization, 2018). Some of the suggestions for what can be done to mitigate air pollution are to drive cars less, not burn garbage, and plant and then care for trees (Minnesota Pollution Control Agency. n.d.).

A study done on the removal of air pollution by urban trees utilized computer modeling of meteorology and pollution concentration to understand the removal of pollutants such as CO, NO2, Ozone, and SO2 for 55 US cities. These results and others agree that the overall all percent of air quality was not greatly improved but, the total effect that trees produce on air quality provide a significant enough impact that tree cover management should still be considered (Nowak, Crane, Stevens, 2006; Nowak,1994). Another study done in 2005 in Beijing China on urban forests potential to reduce air pollution showed that tree planting can be an effective tool (Yang, 2005). The primary recommendations made by Yang et al. focused on the importance of management practice and selecting species of trees carefully.

Trees naturally sequester carbon. Carbon in the atmosphere traps the sun's heat in the atmosphere instead of allowing it to be reflected out to space (Global CCS Institute, n.d.). Capturing and storing carbon is increasingly important as we work to slow global temperature increases and climate change.

The process of carbon sequestration naturally occurs as a part of photosynthesis. The carbon is then stored in the leaves, bark, and roots of the tree (Johnson & Coburn, 2010). Half of the mass of dry wood is carbon (Department of Environmental Conservation, n.d.). All trees convert sunlight into a food source via photosynthesis so, all trees contribute to sequestering carbon.

Stormwater management is important as it is a way to keep pollutants out of local water bodies (National Research Council. 2009). As Allegheny sits on a hill (formerly Mt. Hope) above the French Creek and other bodies of water, this is an important need of our situation. With the effects of climate change predicted to bring increased precipitation, stormwater management will grow in importance as the need for mitigation plans increase. The rise of green infrastructure in urban development has led to an increase in trees used to mitigate stormwater.

Trees were noted to have reduced storm water runoff "via canopy interception loss, transpiration, facilitating infiltration, and by coupling trees with other green infrastructure technologies such as bio swales and structural soils." (Berland et al., 2017). A tree dependent on its species and size can store up to 100 gallons of water prior to saturation (Fazio, 2010). The appeal of trees in this use again is supplemented with suggested selection criteria and management practices to ensure that the trees are able to perform such feats.

Importance of Trees to Humans

Mental health on college campuses. While enrollment increased 5% in 2014-2015 from the numbers in 2009-2010, the number of students seeking appointments with counseling services have gone up by 30% (Winerman, 2017). Of these students seeking help, 61% report feelings of anxiety, 49% report feelings of depression, 45% report feelings of stress, and 28% report feelings of concern regarding academic performance (Winerman, 2017). It is also reported that at a school with less than 1,500 students the ratio of counseling staff to students is 1:705 (Winerman, 2017). Luckily the ratio at Allegheny of 4 counseling staff members to 1,800 students (450:1) is higher than average. It still is a concerning ratio and causes many issues both for the staff and students.

Feelings of anxiety, depression, and stress are directly impacting the psychological health of those experiencing them. These feelings also negatively impact the physical well being of experiencers. This is detrimental to a section of society that also actively is known to struggle with poor sleep habits, poor eating habits, and exposed to substances such as drugs and alcohol (Winerman, 2017).

College is a high stress environment with the pressures of coursework, extracurricular activities, and socialization (Ross, Niebling, & Heckert, 1999). While these stressors are low-grade, they can be chronic with little time or opportunities for recovery (Wolf, Krueger, & Rozance, 2014). These types of stressors have a greater impact on psychological and physiological health than acute stressors (McGonagle, Kessler, 1990).

Unintentional Natural Exposure. People reap the benefits of exposure to nature and natural scenery simply due to what is outside their windows. Students with views of nature from their dorm windows perform better on tasks that require concentration than students' windows without such views (Tennessen & Cimprich, 1995). The view of nature out of an office or home window is related to an increased percent of well being and life satisfaction (Leather 1998). It has been shown that simply viewing photos and videos of natural scenes can reduce indicators of stress such as heart rate and skin conductance (Gladwell, 2012).

When walking in places with natural views instead of urban scenery, it is found that one can experience decreased anxiety, decreased rumination, and decreased negative affect (Bratman). Brief walks in natural places are also associated with reduction of cortisol (Park 2009). It has been theorized that an innate connection with nature has led to nature scenes activation the PNS and reducing stress, and creating autonomic arousal (Ulrich 1991).

Intentional Natural Exposure. A long standing Japanese tradition of caring for oneself is that of forest bathing or shinrin-yoku. Forest bathing is defined as "making contact with and taking in the atmosphere of the forest" (Smith, 2014). Forest bathing is more than simply walking in the woods, it fully immersing oneself in the experience with all five senses and turning off the little voice inside your head.

Over the course of many studies, forest bathing has been shown to have both physiological and psychological benefits to the participant (Morita et al., 2007; Nilsson, Sangster, & Konijnendijk, 2011; Cytowic, 2016; Hutchinson, 2015; Lee et al., 2011; Tsunetsugu et al., 2013). Particularly stated by McGonagle and Kessler, those who self-rate themselves at a greater stress level also self-rated a greater positive effect from forest bathing.

Memorial trees and spaces. Many cultures seek something greater than relaxation from our relationship with nature; they seek spiritual growth as well (Smith, 2014).In a study done to better understand the psychological, social and cultural importance of trees to people living in urban cities researchers interviewed city dwellers

from Chicago who don't have regular access to rural forested areas. One common theme was that of trees are religious symbols: the tree of life and the tree of knowledge in Judaism, the cross being identified as the tree of life in Christianity, trees representing awakening and consciousness in the Hindu tradition, and finding enlightenment under a wisdom tree in Buddhism (Dwyer et al., 1991).

Dwyer et al.'s study also reported that people see trees as being symbolic of people. It is common to refer to one's hometown as our 'roots' and one's family connections as their 'family tree' (Dwyer et al., 1991). A key connection identified by Dwyer et al. is that people view trees as living memorials for loved ones. Cloke and Paulson state that memorial trees allow things to 'shift from history to heritage' (Cloke, & Pawson, 2008). They also noted that the unruly and individualistic character of each tree allows for greater personalization for a memorial space (Cloke, & Pawson, 2008).

Methods

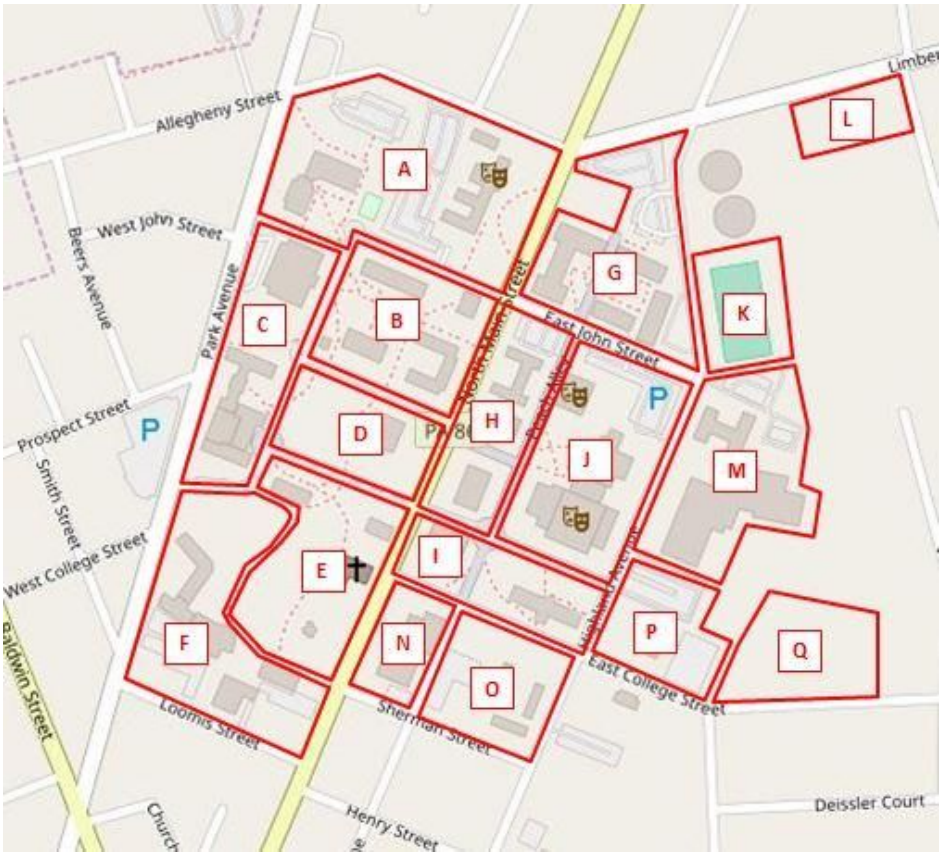
Application Materials

Campus tree care plan. First I collected examples of management plans created by other colleges and universities for The Tree Campus USA program (Virginia Tech, 2008; Georgia Tech, 2008; Valencia College, 2011). I reviewed these plans to determine the portions that were most valuable in the creation of a new tree management plan for Allegheny College. The current practices of the college were blended with the ideas from other management plans to create a new plan tailored to Allegheny's tree needs.

Tree Inventory

Inventory. To conduct a tree inventory of the central portion of Allegheny's campus it was important to start with a street view map. I divided the map into 17 sections according to naturally occurring boundaries such as roads, buildings, and sidewalks (Figure 1). I then counted all of the trees present in each section.

Figure 1: Tree Inventory Section Map



From the large number of trees in each section, I gathered further information from trees that were approximately 10” in diameter at breast height (DBH) or larger. I used a Biltmore stick and measuring tape to determine DBH for all trees measured. I used a dichotomous key (Watts, 1963) and a pocket guide to Trees of North America (National Audubon Society, 1986) to identify each tree.

For each of these 10” DBH or greater trees, I also recorded the GPS coordinates with the compass application on my smartphone (Apple IPhone 6S). These coordinates were then converted from DMS to Decimal Degrees (DD) using The University of Minnesota’s PGC Coordinate Converter (https://www.pgc.umn.edu/apps/convert/) for mapping purposes in ArcGIS.

In addition to this information, I also estimated height, life stage, and physical condition of the 10” DBH or greater trees. To estimate height I placed an object of known height of 5 feet at the base of the tree and then measured that object and the tree from a

distance. I compared to the two measurements to produce an estimated height.

I estimated the life stage of a tree to be in the first third of its life (1), to be in between the first third and the second third (2), to be in the second third of its life (3), and then grand (4). I designed this basic system to quickly and easily determine the life stage group each tree belongs to based on height, circumference and species.

Estimating physical condition consisted of ranking the tree on a Likert scale. The most extreme ranking being bad (1) , followed by poor (2), the median being okay (3), then good (4), and lastly great (5).The only trees this ranking scale did not cover were the few trees that were dead, they were assigned a 0 in this category. The data collected during the surveys was imported into a Google Sheets sheet.

Historical tree data. I also imported historical tree data and memorial tree data to the Google Sheets sheet. The historical tree data was compiled in the fall of 1987 by the then landscape architect of the college, Homer A. Thornton. This data included 91 trees, their common and Latin names, a brief description of their location and the caliper (DBH) of some trees (Thornton, 1987). I matched as many of the historical trees to their modern day data locations as possible. Some of the small trees of the ornamental, fruit, or flowering variety could not be linked to the modern data points due to being less than 10” in DBH. Some of the trees in the original list appear to have been removed due to new construction or have died and are not specifically located but rather their location was estimated to the closest building, walkway, or landmark.

Memorial tree data. The historical tree data and current tree inventory Google sheet is accompanied by the memorial locations data. The data was provided by Carli Belosh of the Development Office. Of the 103 recorded memorial spaces, 55 are trees. The memorial trees and other memorial spaces document included a description of location, donor, donee, plaque inscription, if possible a photo, and a datatel number. If the memorial was a tree the information also included the Latin and common names.

Results

Application Materials

The formal online application used by the Arbor Day Foundation was completed but not yet submitted (see Appendix A).

Campus Tree Care Plan. The Campus Tree Care Plan includes information regarding the committee list and the budget. The Campus Tree Care Plan lists common pests and diseases, trees likely to increase or decrease due to range shifts, and the future goals of the management plan (see Appendix B).

Arbor Day celebration. The 2019 Arbor Day Celebration will be launched with an information post on MyAllegheny Post 04/26/2019. It will include a short Arbor Day Intro, a link in info regarding Allegheny College trees, links to Arbor Day Foundation information and a social media challenge (see Appendix C). "Use #ACArborDay on Instagram" for a free Arbor Day Sticker and a chance to be featured on Allegheny College social media sites. This will be documented by screenshot and attached to the application.

Service project. The service project portion of the application can be a selection of projects done by the college. They can be in conjunction with classes, service events, and individual experiences. They must be documented with photos (see Appendix A). A list of 2019 examples include Internship with local Christmas Tree Farm (01/2019-05/2019), the extension of the Tree Inventory (01/2019-05/2019), and Class Presentations of data collected in Allegheny forest land to outside groups (TBD).

Tree Inventory Data

The tree inventory showed that on the maintained 79 main acres of campus we have 989 trees. Of these 989, 549 have a 10" or greater DBH. The section of campus around Schultz, the Physical Plant building and Carnegie has the greatest total number of trees (133) and section around Allegheny Commons has the fewest (18). The section including Bentley, Ruter, Ford Chapel, Newton Observatory, and the ravine under the bridge has the greatest number of trees over 10"+ DBH (85), and the sections north of Crawford and around the Commons have the fewest at 0 trees with a 10"+ DBH.

The species seen the most commonly at the over 10” DBH category were Red Maple (71), White Pine (48), and Red Oak (42). Some of the most uncommon trees to campus are Sycamore, Catalpa, and Red Bud, all with just one specimen over 10” DBH on campus. Of trees less than 10” DBH, while specific data was not collected, it should be noted that they primarily consisted of small fruiting ornamentals, River Birch, and young trees of common species to campus (see Appendix C).

Table 1: Tree Totals

Section	Physical Location	Total # of Trees	# of Measured Trees
A	Steffee / Oddfellows	75	50
B	Quigley, 454, Baldwin, Arter	68	29
C	Carr, Walker, Walker Annex, Brooks	63	44
D	Reis	52	42
E	Bentley, Ruter, Ford, Newton	114	85
F	Schultz, Physical Plant. Carnegie	133	72
G	North Village 1 & 2	65	1
H	Caflisch, Alden, Tippie	27	17
I	Montgomery, Murray	54	24
J	Vukovich, Campus Center	70	44
K	Area North of Crawford	34	0
L	Allegheny Commons	18	0
M	Crawford, Wise Center	42	29
N	Pelletier	24	12
O	College Court	59	28
P	Edwards	27	23
Q	Ravine	64	49
	TOTAL	989	549

Tree Map

The data from the inventory was input into a Google Sheets sheet. This data was imported to ArcGIS. Within ArcGIS the data was used to produce a variety of maps.

The mean approximate life stage was between ⅓-⅔ and 2/3. The trees estimated to be beyond ⅔ through their life to grand are primarily near Ravine the dorm and Crawford. Areas around Steffee and the Campus Center had the largest collection of trees estimated to be in the first ⅓ of their life. The mean estimated height was 50.8', with a range of 6'-110'. The tallest trees on campus tended to be surrounding Rise, in the green space between Rise and Walker, around Bentley in the lawn and into the small ravine. The mean DBH was 20.72", with a range of 3.18"-51.56". The trees with the larger DBH can be found in the older sections of campus: (Schultz, bentley, ruter, walker grass). The average physical condition was just over 4 (good) at 4.3. This means that the trees on campus tend to be in relatively good physical condition on average. 256 trees received a score of 5 (great) which makes determining the healthiest trees on campus difficult. Only 8 trees were rated as 0 (dead) or 1 (bad) these also were spread on a variety of locations on campus.

Figure 2: Approximate Life Stage Map

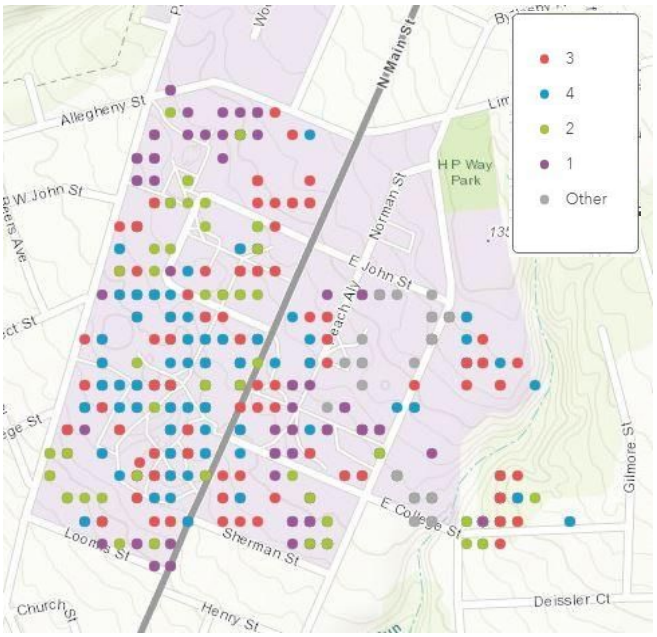


Figure 3: Estimated Height Map



Figure 4: Species Map

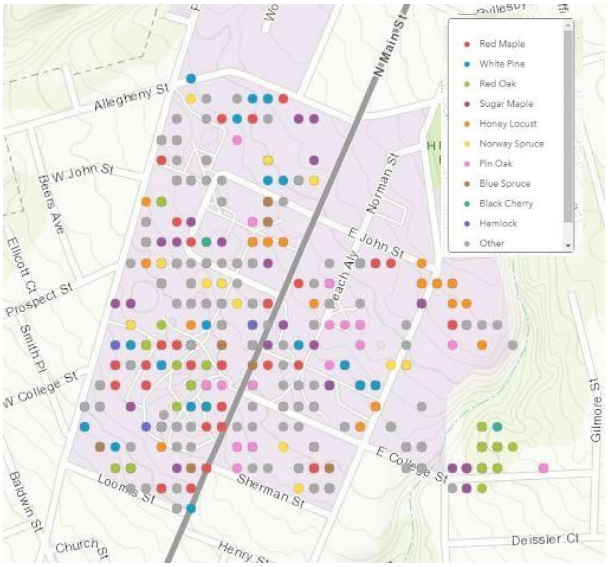


Figure 5: DBH Map

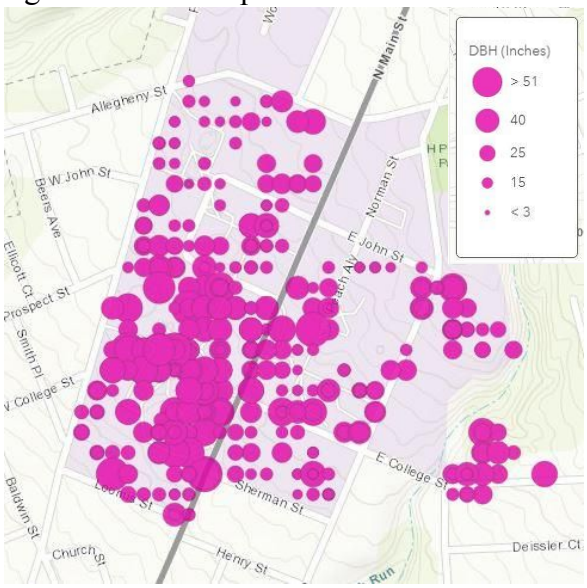
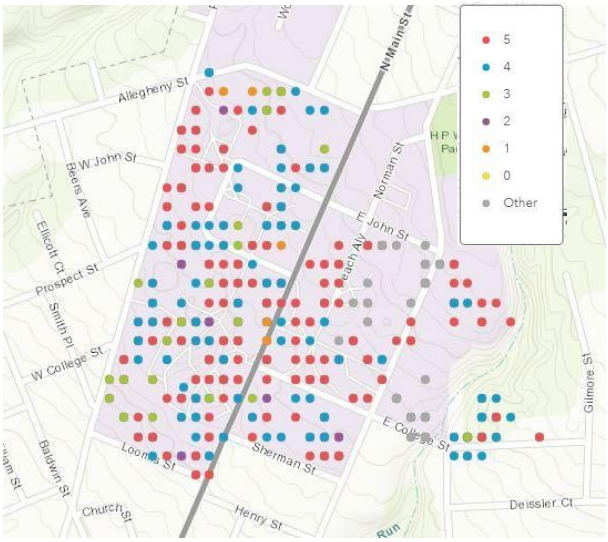


Figure 6: Physical Condition Map



Discussion

Application Materials

Campus tree care plan. Arboretum management, as noted earlier, is a single tree or shrub specific plan. The management style would break the campus down to plans for the many species present, or further than that, to specific individuals of each specie given their specialized needs. The management style of Allegheny is not specific to any

individual tree. If a specific tree needs to be monitored or requires individual attention, then the physical plant staff provide this. But the primary organization of the management plan is to interfere as little as possible. While arboriculture addresses many specific needs of trees, it is not necessary for our campus to design a management plan for every specific tree.

Although there are many different combinations of factors that influence the ultimate design of the management plan, the overall goal of any plan is the health of the trees and forest. Invasive insects, disease and other pests pose a great threat to our trees.

A list of pests and diseases common to the Northeast portion of the nation is included in the Campus Tree Care Plan. The list also includes the commonly affected trees and symptoms of these pests and diseases. This list primarily focuses on the trees native to the Northeast portion of the nation, thus this list may not protect all the non-native trees on campus.

While this portion of health can be monitored, the management plan cannot account for sudden death, weather related incidents, or human caused issues. The management plan first and foremost focuses on the health and safety on all members of campus. All damages and health concerns will be assessed first to meet this end goal. After which replanting, relandscaping, protecting other at risk trees will be handled by the members of physical plant and Davey Tree Service. All human related concerns will be addressed based on the nature of concern then the level of acceptable reprimand.

The management plan directly addresses range shift concerns. It contains lists of native trees on our campus that are at risk of no longer being suited for this climate. The plan also includes a list of native trees whose ranges will now suit Northwestern Pennsylvania's climate. This list is suggestions for future plantings. These lists do not include non native trees as they are already outside their given range. Additionally, the suggestion list is just that, a suggestion, and likely will not be enforced in matters such as memorial plantings.

Memorial trees on campus. Many individuals and groups have been honored and remembered via memorial trees (55) and an additional 48 other spaces in nature on

our campus. The plaques that accompany most of these plantings directly memorialize the honoree so that people can go to those places to remember their loved ones. Those creating memorials can select the specific species of tree that their loved one will be honored with to add an additional layer of personalization.

In 'The Trees of Allegheny" (Helmreich, 2001) stories are told that memorial trees have been said to die after their honoree has also passed. Engraving the concept that they are part of their honorees story. The Trees of Allegheny and the memorial tree list also list a collection of trees and other memorial sites that are specific to organizations or graduating classes. These memorials create a heritage and traditions of these organizations and future graduating classes giving gifts such as trees to memorialize their time at Allegheny.

Religious connections are also represented in memorial trees on campus. Specifically, the Allegheny Hillel Tree and the Ford Memorial Chapel Centennial Tree, dedicated to Hillel: The Foundation of Jewish Campus Life and the worshiping communities of Ford Chapel, respectively. They stand as living and growing reminders of the many faiths represented on campus and they can become in the future. They also counter as spaces for faith, if desired these communities can gather around these trees to worship, to read, and to connect with the symbolism of trees for their specific organizations.

Historical importance of trees. The History of Allegheny's Trees, the memorial trees data, and the historical tree list show that the changing forest of Allegheny have been important to different people at different times. The History of Allegheny's Trees draws upon the significance of trees and tree related folklore.

The sycamore at the corner of Bentley Hall has been an icon of Allegheny for nearly all who have walked her halls. We tell the tale that our College's founder, Rev. Timothy Alden, planted the young sycamore 197 years ago and that the health of the majestic tree is directly linked to the success of the college. It is shown to nearly every prospective student who tours our grounds, it's health and management has been the

focus Environmental Science junior seminars, and Alumne Dale Psycher has gone as far as securing funding to takes graphs from the tree for a replacement in case of tragedy.

Current Recommendations

As this The Arbor Day Foundation only accepts applications on a calendar year basis, this application has not yet been processed. To earn the Tree Campus USA certification we must submit the materials here provided. After gaining approval from the newly appointed president, Dr. Hilary Link.

While I could not make it happen, it is essential to this project to submit this application at the end of each calendar year. This becomes the duty of a yearly elected position (Be it the ASG Director of Sustainability, a member of Students for Environmental Action, Sustainable Living, or a student assistant to the ES department). This will ensure that Allegheny will remain certified each year with The Arbor Day Foundation. More importantly, it will mean that if even for two meetings each year the voices of the students are being heard on the matter of the trees of our campus.

In furthering the inventory of trees on campus, it would be recommended to first address trees that are around college owned housing and college owned fraternity homes. These sites have no data collected. As time passes, it would be advised to note changes, losses, and trees reaching 10”+ DBH to the inventory.

Publication of the tree inventory maps will allow community members to engage with and learn about the trees of campus.

While specializing memorial trees to the honorer/honoree desires can create a unique memorial, it can be hard to predict what will happen to the many non native species present. With range shifts, pests, and general arborist potential unfamiliarity of non native species, it stands to shorten the life span of the memorial.

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Tables

Table 1: Tree Totals

Section	Physical Location	Total # of Trees	# of Measured Trees
A	Steffee / Oddfellows	75	50
B	Quigley, 454, Baldwin, Arter	68	29
C	Carr, Walker, Walker Annex, Brooks	63	44
D	Reis	52	42
E	Bentley, Ruter, Ford, Newton	114	85
F	Schultz, Physical Plant. Carnegie	133	72
G	North Village 1 & 2	65	1
H	Caflisch, Alden, Tippie	27	17
I	Montgomery, Murray	54	24
J	Vukovich, Campus Center	70	44
K	Area North of Crawford	34	0
L	Allegheny Commons	18	0
M	Crawford, Wise Center	42	29
N	Pelletier	24	12
O	College Court	59	28
P	Edwards	27	23
Q	Ravine	64	49
	TOTAL	989	549

Figures

Figure 1: Tree Inventory Section Map

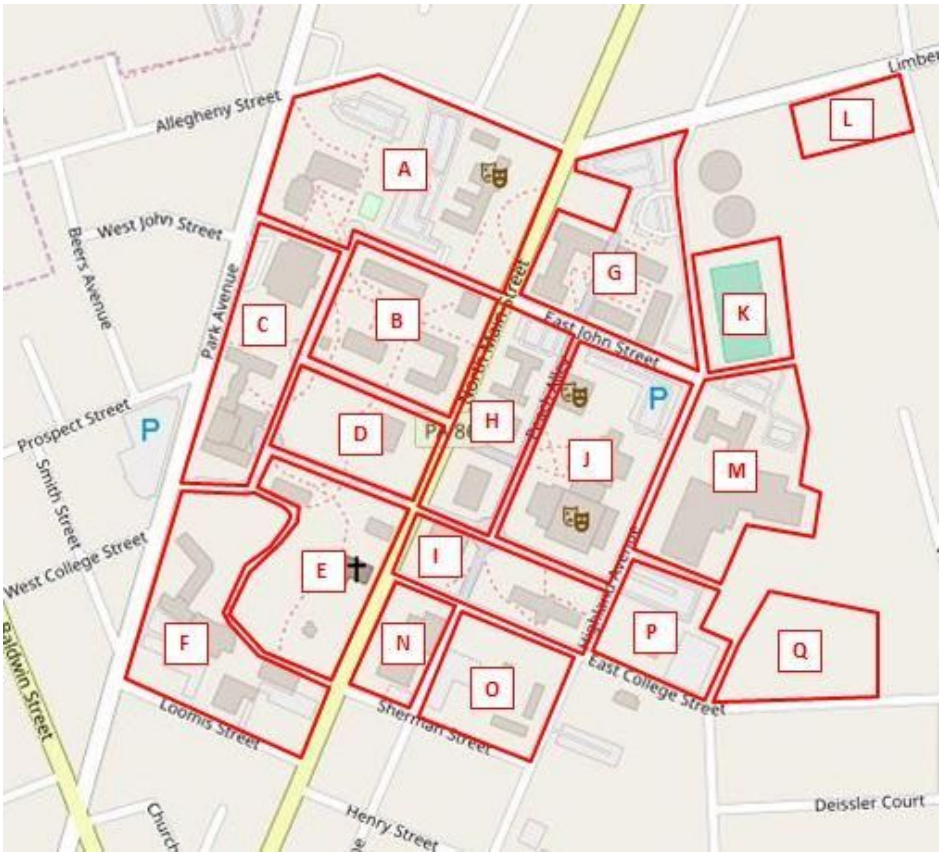


Figure 2: Approximate Life Stage Map

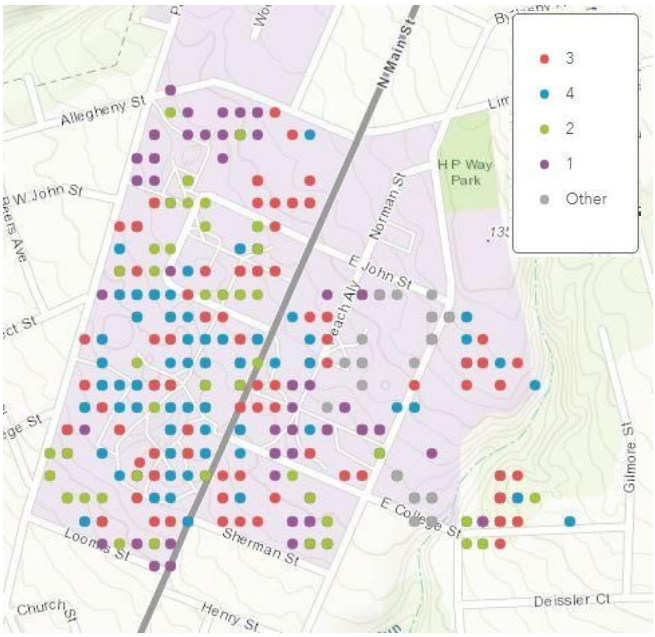


Figure 3: Estimated Height Map

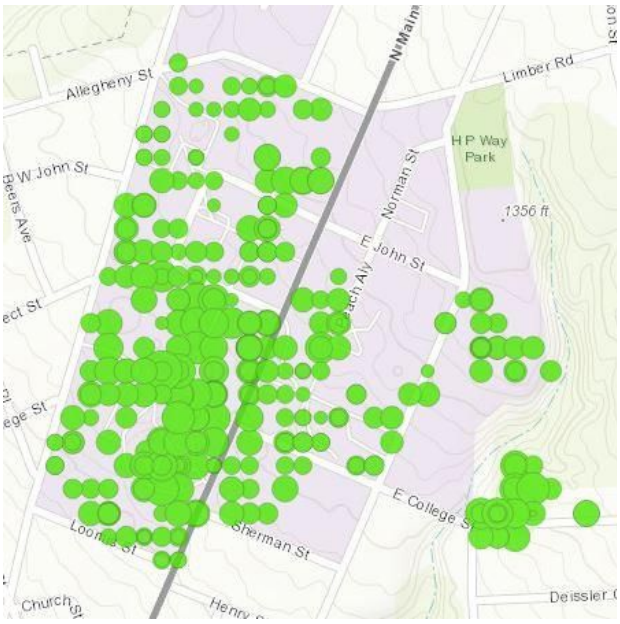


Figure 4: Species Map

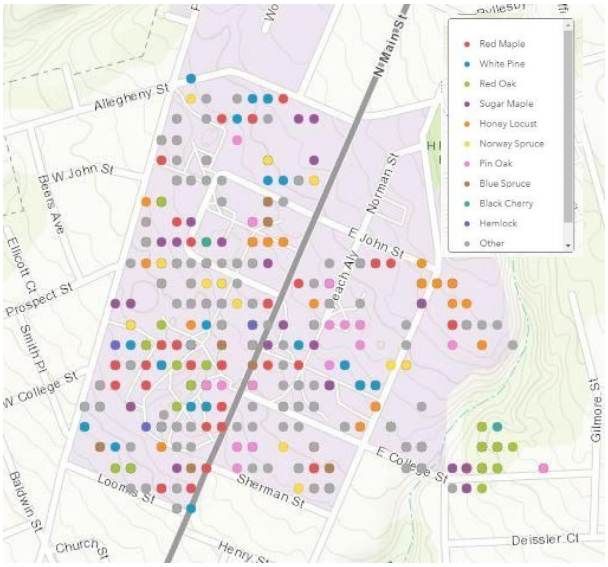


Figure 5: DBH Map

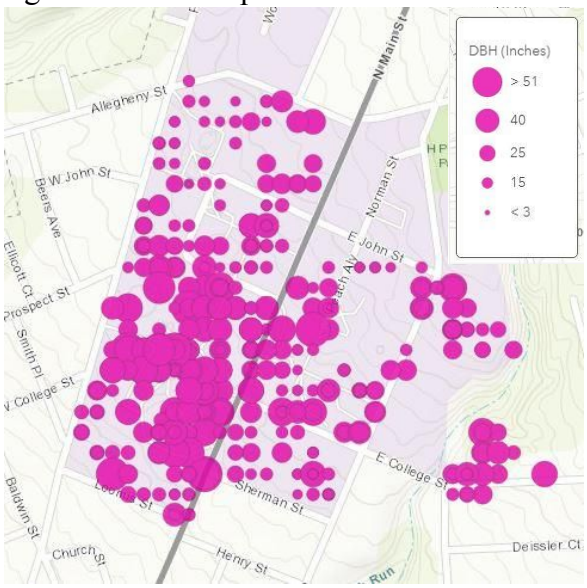
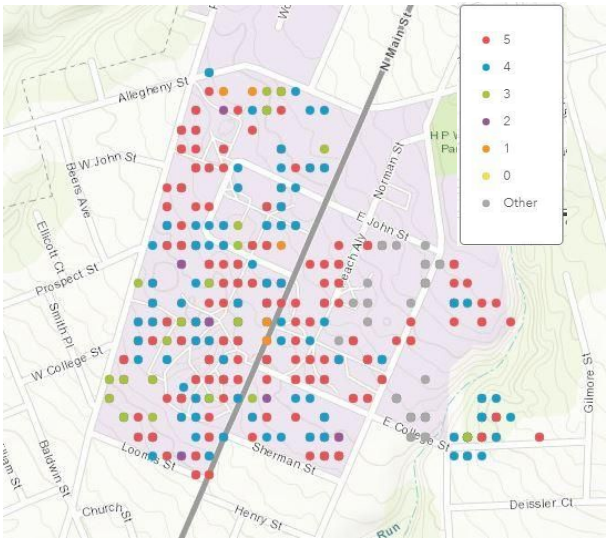
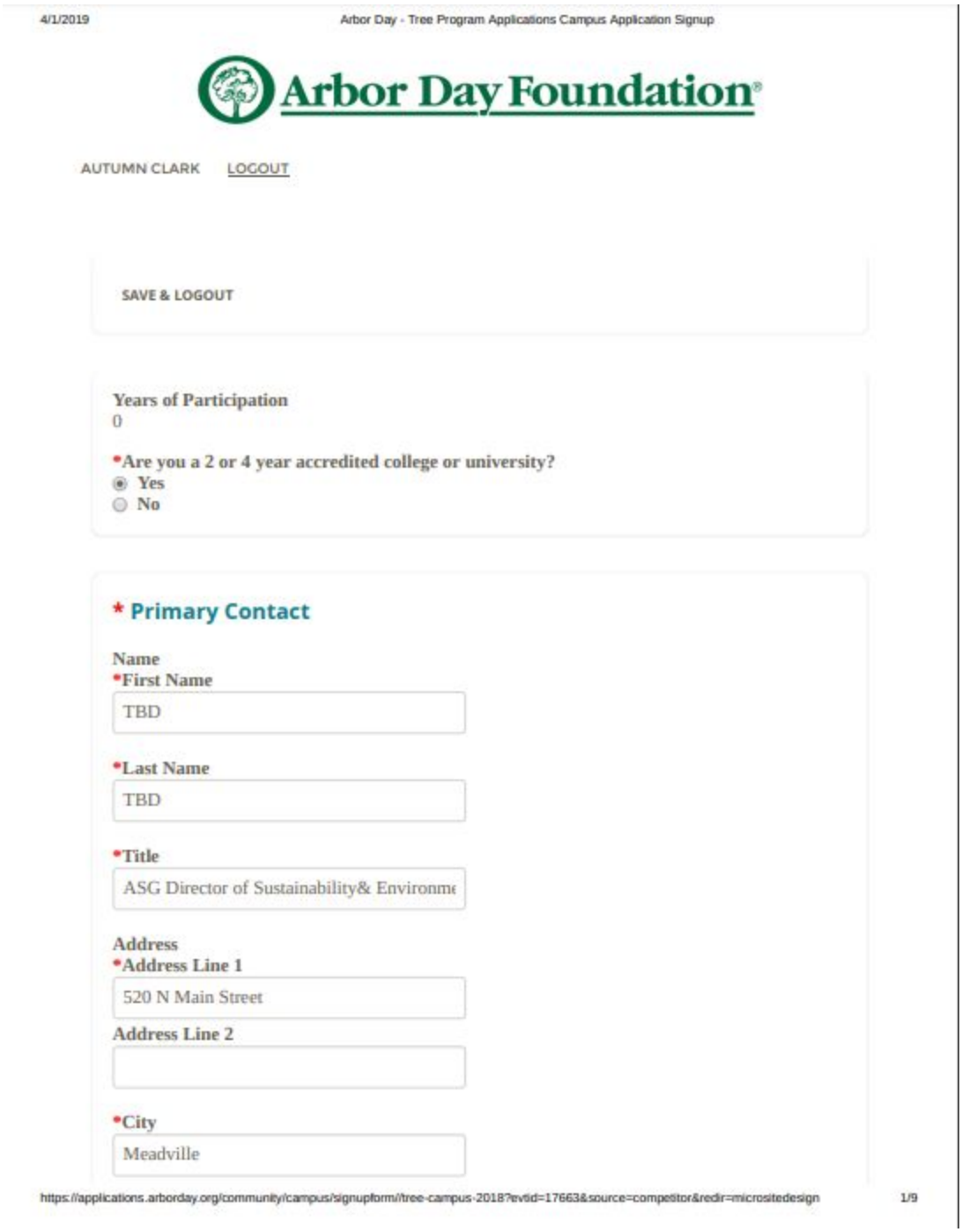


Figure 6: Physical Condition Map



Appendix A

Arbor Day Foundation Application



4/1/2019 Arbor Day - Tree Program Applications Campus Application Signup

Arbor Day Foundation®

AUTUMN CLARK LOGOUT

SAVE & LOGOUT

Years of Participation
0

***Are you a 2 or 4 year accredited college or university?**
◉ Yes
○ No

*** Primary Contact**

Name
***First Name**
TBD

***Last Name**
TBD

***Title**
ASG Director of Sustainability& Environme

Address
***Address Line 1**
520 N Main Street

Address Line 2

***City**
Meadville

https://applications.arborday.org/community/campus/signupform/tree-campus-2018?evtid=17663&source=competitor&redir=micrositedesign 1/9

State

Pennsylvania

*Zip Code

16335

*Email Address

TBD

* Communications Office Contact

Name

*First Name

*Last Name

*Title

Address

*Address Line 1

520 N Main Street

Address Line 2

*City

Meadville

*State/Region

Pennsylvania

*ZIP/Postal Code

16335

*Email Address

* University President/Chancellor's Office

Name of President/Chancellor
*First Name

Hilary

*Last Name

Link

Address
*Address Line #1

520 N Main Street

Address Line #2

*City

Meadville

*State

Pennsylvania

*Zip Code

16335

*Email Address

Standard 1: Campus Tree Advisory Committee

This committee must include a representative from each of the following audiences:

- Student (undergraduate or graduate)
- Faculty
- Facility Management
- Community—for example—city forester, municipal arborist, community tree board member.

If you have multiple representatives for an audience, please attach a list of additional representatives below.

***Date Committee Established: All dates should be entered in the following format with a comma separating each meeting date: MM/DD/YYYY, MM/DD/YYYY, MM/DD/YYYY.**

x ...

* Student

Student Name
***First Name**

TBD

***Last Name**

TBD

***Email Address**

TBD

* Faculty

Faculty Name
***First Name**

Kelly

***Last Name**

Bolton

***Email Address**

kbolten@allegheny.edu

* Facility

Facility Name
***First Name**

Brian

*Last Name

Gillette

*Email Address

gilletteb@allegheny.edu

* Community

*First Name

Dale

*Last Name

Psycher

Email address

dpysher@zoominternet.net

*Meeting dates for the past year: Please format dates MM/DD/YYYY and separate with commas.

TBD

Please upload contact information for any additional committee members.

Attachments UPLOAD ATTACHMENT

NAME	DESCRIPTION	CREATED DATE
No Data		

Standard 2: Campus Tree Care Plan

All of the following criteria must be addressed in your Campus Tree Care Plan:

1. Clearly stated purpose.
2. Responsible authority/department—who enforces the Campus Tree Care Plan.
3. Establishment of a Campus Tree Advisory Committee, terms of the representatives, and role committee plays.

4. Campus tree care policies for planting, landscaping, maintenance and removal including establishing and updating a list of recommended and prohibited species; managing for catastrophic events.
5. Protection and Preservation policies and procedures—include process for implementing tree protection plan including step-by-step process that every project must follow including construction and trenching.
6. Goals and Targets—develop at least one goal and target for your Campus Tree Plan. These could include (but are not limited to) tree canopy target, development of a link between the Campus Tree Plan and other green initiatives on campus or in the community; completion of a campus-wide tree inventory, etc. Include how the goal will be measured.
7. Tree damage assessment—enforcement, penalties, and appeals.
8. Prohibited practices.
9. Definitions of terminology related to campus trees.
10. Communication strategy—how the campus tree care plan will be communicated to the college community and contractors to heighten awareness about policies and procedures as well as the goals of the institution.

***Date Campus Tree Care Plan Established**

x ...

*** Attach a copy of your Tree Care Plan if it has been changed or updated since you last applied for recognition. If no changes have been made to the plan, summarize the progress of your Goals and Targets below. Your Tree Care Plan is good for five years. Please upload an updated plan every sixth year of recognition.**

Attachments UPLOAD ATTACHMENT

NAME	DESCRIPTION	CREATED DATE
No Data		

Update on Goals and Targets

If no changes have been made to your Tree Care Plan, summarize the progress of your "Goals and Targets" below.

As this year we designed our Tree Care Plan, the update on our Goals and Targets are that they have been created.

Standard 3: Dedicated annual expenditures for the Campus Tree Care Program

*** Tree Planting and Initial Care**

Include cost of tree purchases, labor and equipment for planting, planting materials, staking, watering, mulching, competition control, etc. (Must be a number. Please omit commas, dollar signs, etc). If this category does not apply to you, please enter 0.

1500

*** Campus Tree Care Management Costs**

Include pruning, public education, professional training, association memberships, campus tree inventory, pest management, fertilization, tree removals (if needed), and all associated costs. (Must be a number. Please omit commas, dollar signs, etc). If this category does not apply to you, please enter 0.

*** Volunteer Time**

Hours of volunteer labor and other contributions from student and civic organizations (must be a number. Please omit commas, dollar signs, etc). If this category does not apply to you, please enter 0.

0

*** Other costs**

Must be a number. Please omit commas, dollar signs, etc. If this category does not apply to you, please enter 0.

0

Briefly describe other undefined costs not already mentioned.

Management and care costs outside of regular budget will be paid for on an 'as needed' basis.

Total Tree Campus Tree Care Program Expenditures: 1500.00

*Number of trees planted (must be a number. Please omit commas, dollar signs, etc).

4/1/19 - 1

*Number of trees pruned (must be a number. Please omit commas, dollar signs, etc).

*Number of trees removed (must be a number. Please omit commas, dollar signs, etc).

4/1/19 - 5

*Reason for removal of trees (i.e., storm, construction, etc)

Construction, Death of tree, disease

% of tree canopy (if known) (must be a number. Please omit commas, dollar signs, etc).

N/A

*Full-time student population (must be a number. Please omit commas, dollar signs, etc).

1,800

* Standard 4: Arbor Day Observance

*Date observance held

x 04/26/2019 ...

*Arbor Day Observance Type

Please Select

Attach documentation of your Arbor Day Observance

Attachments UPLOAD ATTACHMENT

NAME	DESCRIPTION	CREATED DATE
No Data		

* Standard 5: Service Learning Project

***Date(s) of Service Learning Project(s). Please format dates MM/DD/YYYY and separate with commas.**

01/20/2019 - 05/05/2019 - Internship with a local Christmas Tree Farm
01/20/2019 - 05/2019 Extension of the Tree Inventory

***Number of Campus Students Involved**

1-20

***Summarize Service Learning Project(s)**

Students on an individual level and as a part of classes have engaged with trees and tree care in the Meadville area. A senior is participating in a semester long internship with a local Christmas tree farm. They are learning about the management involved with the industry as well as hands on skills. They will create a presentation at the end of the semester to share their knowledge with others. Four students continued work on our volunteer lead tree inventory of the tree in the central campus. They updated information regarding removed trees and

Attach documentation for Service Learning Project(s)

Attachments UPLOAD ATTACHMENT

NAME	DESCRIPTION	CREATED DATE
No Data		

SUBMIT

© 2018 Arbor Day Foundation

Appendix B

Allegheny College Campus Tree Care Plan

2019

Purpose

The overall purpose of the Campus Tree Care Plan is to identify the policies and practices that will ensure the health and beauty of the campus tree population. To ensure that our campus community is striving to work by the Environmental Guiding Principles set forth by our Sustainability Office. To instill respect for and value of our urban forest on our campus community members.

Responsible Department

The Allegheny College Physical Plant Department operates and maintains the grounds. If work and services required for tree maintenance goes above and beyond Physical Plant's ability, Allegheny College will pursue contract work through companies such as Davies Tree Service. The Allegheny College Office of Development approves changes to the grounds.

Tree Advisory Committee

The tree advisory committee will be comprised of faculty, staff, students, and community members as required by the standards set forth by The Arbor Day Foundation. The committee will meet biannually to provide input regarding the care of the trees and to update and submit the formal Tree Campus USA application.

Student: ASG Director of Sustainability & Environmental Affairs
Sustainability Coordinator: Kelly Boulton

Physical Plant member: Brian Gillette

Community member: Dale Physer

Optional Members:

Faculty: TBD

Budget

Salaries of specific Grounds Department team members

Campus Crew - Rex Dennis, Jeb Stutzman, Bob Telliho

Landscape/Gardeners - Teresa Gionti

Memorial Tree Plantings …. $1,500

Davey Tree Services for removal

Cited to be anywhere between $1,500 (easy job) to $5,000 + (if crane is needed)

Campus Arboriculture Practices

Maintenance

Pruning

When pruning always have a clear and definable outcome. Prune first for safety, then for health, and lastly for aesthetics. Any and all pruning schedules will depend on the tree species, age, function, and placement.Trees near roads, sidewalks, street lights, and buildings are regularly inspected for safety and are pruned as necessary.

Pest and Disease Management

Trees shall be treated for pest and diseases as needed. Common pests, diseases and their symptoms will be listed for reference purposes. Should a pest or disease be suspected please contact the Physical Plant Department.

Common Pests and Diseases

Name	Affected Species	Symptoms
Anthracnose	Not Specified	Wilting, fungi, lesions, cankers

Asian Gypsy Moth	Hardwoods (Oak, Elm, Linden)	Egg masses, feeding caterpillars, defoliated trees
Asian Longhorned Beetle	Hardwoods (Ash, Elm, Birch, Maple)	Visible beetles, chewed depressions, pencil sized holes, excessive sawdust, yellowing leaves
Beech Bark Disease	Beeches	Yellowing leaves, cankers, cracking bark, beech snap
Dutch Elm Disease	Elms	Yellowing leaves, root death, dieback of branches
Emerald Ash Borer	Ash (All 16)	Yellowing leaves, root/trunk suckers, D shaped exit bug holes
European Gypsy Moth	300+ Species (Aspen, Birch, Cedar, Oak)	Visible eggs, visible caterpillars, visible adults moths, defoliated trees
Fire Blight	Fruiting, landscape plantings & more	Reddish ooze, dark streaks, brown shrivelling twigs and flowers, cankers
Hemlock Wooley Adelegid	Hemlocks	Brown/Orange eggs, Reddish brown insects, woolly white nests, gray-green foliage
Maple Decline	Maples	Reduced growth, Early fall coloration, dead upper canopy, poor root condition
Oak Wilt	Oaks	Leaf shedding, yellowing/browning leaves, dark inner tissue circles
Root & Butt Rots	Hardwoods	Crown dieback, internal decay, conks at base of trees
Spotted Lanternfly	Hardwoods (Fruits, Maple, Oak, Pine)	Oozing/Weeping, fermented odor, build up of sticky fluids, sooty mold
Sudden Oak Death	Hardwoods (Oak, Maple, Beech, Ash)	Bark cankers, red/black ooze, leaf spots, twig dieback
Verticillium Wilt	350+ Species	Wilting stems, yellowing leaves, defoliation

(Elmendorf, B. (2000); PA DCNR (n.d.); USDA APHIS (n.d.))

Planting And Landscape

Tree species that are planted on the grounds should be selected from the list of recommended trees. All plantings must be approved by the development office and physical plant department in conjunction with the Tree Advisory Committee. Suggested planting locations can be advised by the Tree Survey Map.

Recommended Trees

The trees recommended for selection and placement on Allegheny's Campus are listed below. The trees are first and foremost native to the Northeastern portion of the nation. The trees also reflect the likely changes in species range due to climate change (Czornecki & Leopold, 2014).

Native, Likely to Increase

American Elm	American Hornbeam	Black Locust	Blackgum
Black Oak	Black Walnut	Eastern Hornbeam	Flowering Dogwood
Pignut Hickory	Sassafras	Scarlet Oak	Slippery Elm
White Oak	Yellow-Poplar		

Trees to Monitor

The range changes will not only be evident in what species are likely to increase, it will also be evident in trees who are likely to decrease. The health of these trees are important to monitor more closely. Trees that potentially may not be able to survive the changing climate of the Northeast portion of the nation, pests, and diseases are listed below (Czornecki & Leopold, 2014).

Native, May Decrease

American Basswood	American Beech	Bigtooth Aspen	Black Cherry
Chestnut Oak	Chokecherry	Eastern Hemlock	Eastern White Pine
Northern Red Oak	Quaking Aspen	Red Maple	Serviceberry

Sugar Maple Sweet Birch White Ash Yellow Birch

Goals and Targets

Maintain the health and integrity of the trees currently on Allegheny grounds. Consider creating a tree canopy and campus master plan. Expand the work done on inventory to survey trees around fraternity houses, on campus housing, and athletic fields.

Resources

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Appendix C

Tree Inventory Data

1. Overview

Section	Physical Location	Total # of Trees	# of Measured Trees
A	Steffee / Oddfellows	75	50
B	Quigley, 454, Baldwin, Arter	68	29
C	Carr, Walker, Walker Annex, Brooks	63	44
D	Reis	52	42
E	Bentley, Ruter, Ford, Newton	114	85
F	Schultz, Physical Plant. Carnegie	133	72
G	North Village 1 & 2	65	1
H	Caflisch, Alden, Tippie	27	17
I	Montgomery, Murray	54	24
J	Vukovich, Campus Center	70	44
K	Area North of Crawford	34	0
L	Allegheny Commons	18	0
M	Crawford, Wise Center	42	29
N	Pelletier	24	12
O	College Court	59	28
P	Edwards	27	23
Q	Ravine	64	49
	TOTAL	989	549

2. Tree Data

	Description of Location	Coordinates (DMS)	Latitude (DD)	Longitude (DD)	Name (Common)	Circumference	DBH (Inches)	Approx. Height (Feet	Age Categor	Physical Condition
A 1	Around the Steffee Parking Lot	41 39 6 N 80 8 44 W	41.651667	-80.145556	Sweet Gum	31	9.867606472	35	1	5
2	Around the Steffee Parking Lot	41 39 6 N 80 8 48 W	41.651667	-80.146667	Ash - Green	36	11.4591559	30	1	2
3	Around the Steffee Parking Lot	41 39 7 N 80 8 50 W	41.651667	-80.147222	Ash - Green	33.5	10.66338119	30	1	4
4	Around the Steffee Parking Lot	41 39 7 N 80 8 48 W	41.651944	-80.146667	Ash - Green	35	11.14084602	30	1	1
5	Around the Steffee Parking Lot	41 39 8 N 80 8 49 W	41.652222	-80.146944	Ash - Green	36.5	11.61831085	36.5	1	4
6	Around the Steffee Parking Lot	41 39 6 N 80 8 45 W	41.651667	-80.145833	Ash - Green	37	11.77746579	30	1	5
7	Around the Steffee Parking Lot	41 39 7 N 80 8 44 W	41.651944	-80.145556	Norway Spruce	44.5	14.16478994	50	2	5
8	Around the Steffee Parking Lot	41 39 7 N 80 8 45 W	41.651944	-80.145833	White Pine	32, 25		35	1	3
9	Around the Steffee Parking Lot	41 39 7 N 80 8 44 W	41.651944	-80.145556	Pine - Pitch ?	35	11.14084602	30	1	5
10	Around the Steffee Parking Lot	41 39 7 N 80 8 49 W	41.651944	-80.146944	Norway Spruce	45	14.32394488	40	2	5
11	Around the Steffee Parking Lot	41 39 8 N 80 8 49 W	41.652222	-80.146944	White Pine	40	12.73239545	40	1	4
12	Around the Steffee Parking Lot	41 39 7 N 80 8 44 W	41.651944	-80.145556	White Pine	42	13.36901522	35	1	3
13	Around the Steffee Parking Lot	41 39 6 N 80 8 45 W	41.651667	-80.145833	Pine - Pitch?	36	11.4591559	35	1	5
14	Around the Steffee Parking Lot	41 39 6 N 80 8 45 W	41.651667	-80.145833	Norway Spruce	51	16.2338042	50	2	4
15	Around the Steffee Parking Lot	41 39 6 N 80 8 45 W	41.651667	-80.145833	White Spruce	43	13.68732511	50	1	3
16	Around the Steffee Parking Lot	41 39 6 N 80 8 46 W	41.651667	-80.146111	White Pine	44	14.00563499	35	1	4
17	Around the Steffee Parking Lot	41 39 5 N 80 8 46 W	41.651389	-80.146111	Pin Oak	43	13.68732511	30	1	5
18	Around the Steffee Parking Lot	41 39 7 N 80 8 46 W	41.651944	-80.146111	Ash	31	9.867606472	40	1	1
19	Around the Steffee Parking Lot	41 39 6 N 80 8 47 W	41.651667	-80.146389	Red Maple	31.5	10.02676141	30	1	5
20	Street Side / Courtyard	41 39 5 N 80 8 50 W	41.651389	-80.147222	Red Maple	38.5	12.25493062	35	1	5
21	Street Side / Courtyard	41 39 6 N 80 8 50 W	41.651667	-80.147222	white pine	38	12.09577567	35	1	5
22	Street Side / Courtyard	41 39 5 N 80 8 51 W	41.651389	-80.1475	Red maple	47	14.96056465	35	1	4
23	Street Side / Courtyard	41 39 5 N 80 8 50 W	41.651389	-80.147222	Red maple	33	10.50422624	35	1	5
24	Street Side / Courtyard	41 39 5 N 80 8 51 W	41.651389	-80.1475	Red maple	37	11.77746579	35	1	5
25	Street Side / Courtyard	41 39 5 N 80 8 51 W	41.651389	-80.1475	Red maple	36	11.4591559	35	1	5
26	Street Side / Courtyard	41 39 4 N 80 8 50 W	41.651111	-80.147222	sycamore	36	11.4591559	35	1	5
27	Street Side / Courtyard	41 39 4 N 80 8 51 W	41.651111	-80.1475	white basswood	38.5	12.25493062	35	1	5
28	Street Side / Courtyard	41 39 3 N 80 8 50 W	41.650833	-80.147222	oak - Red/pin	39	12.41408556	30	2	4
29	Street Side / Courtyard	41 39 3 N 80 8 49 W	41.650833	-80.146944	Ash - green	32	10.18591636	30	1	4
30	Street Side / Courtyard	41 39 3 N 80 8 49 W	41.650833	-80.146944	Ash	10	3.183098862	40	2	5
31	Street Side / Courtyard	41 38 3 N 80 8 48 W	41.650833	-80.146667	white basswood	50.5	16.07464925	35	2	5
32	Street Side / Courtyard	41 39 3 N 80 8 50 W	41.650833	-80.147222	Red Oak	37	11.77746579	40	2	5
33	Street Side / Courtyard	41 39 3 N 80 8 47 W	41.650833	-80.146389	Ash - Green	35	11.14084602	40	2	4
34	Street Side / Courtyard	41 39 4 N 80 8 48 W	41.651111	-80.146667	Ash	36.5	11.61831085	35	2	4
35	Around Oddfellows	41 39 4 N 80 8 48 W	41.651111	-80.146667	White Basswood	45	14.32394488	30	2	5
36	Around Oddfellows	41 39 3 N 80 8 44 W	41.650833	-80.145556	White Pine	72	22.91831181	60	3	4

37	Around Oddfellows	41 39 4 N 80 8 44 W	41.651111	-80.145556	White Pine	42	13.36901522	50	3	4
38	Around Oddfellows	41 39 4 N 80 8 44 W	41.651111	-80.145556	Norway Spruce	61	19.41690306	65	3	3/4
39	Around Oddfellows	41 39 4 N 80 8 44 W	41.651111	-80.145556	White Pine	75	23.87324146	65	3	5
40	Around Oddfellows	41 39 3 N 80 8 42 W	41.650833	-80.145	White Pine	75	23.87324146	70	3	5
41	Around Oddfellows	41 39 3 N 80 8 43 W	41.650833	-80.145278	White Pine	83	26.41972055	70	3	5
42	Around Oddfellows	41 39 3 N 80 8 42 W	41.650833	-80.145	Scotch Pine	65	20.6901426	65	3	4
43	Around Oddfellows	41 39 3 N 80 8 41 W	41.650833	-80.144722	Norway Spruce	52.5	16.71126902	65	3	4
44	Around Oddfellows	41 39 3 N 80 8 41 W	41.650833	-80.144722	Norway Spruce	66	21.00845249	65	3	4
45	Around Oddfellows	41 39 2 N 80 8 43 W	41.650556	-80.145278	Scotch Pine	51.5	16.39295914	60	3	4
46	Around Oddfellows	41 39 4 N 80 8 41 W	41.651111	-80.144722	Sugar Maple	73	23.23662169	45	3	3
47	Around Allegheny Hall	41 39 6 N 80 8 41 W	41.651667	-80.144722	Sugar Maple	109	34.69577759	55	4	4
48	Around Allegheny Hall	41 39 6 N 80 8 42 W	41.651667	-80.145	Sugar Maple	94	29.9211293	45	3	4 / Very Pruned
49	Around Allegheny Hall	41 39 7 N 80 8 43 W	41.651944	-80.145278	Red Maple	91	28.96619964	55	3	4 / Pruned
50	Around Allegheny Hall	41 39 6 N 80 8 45 W	41.651667	-80.145833	Red Maple	73	23.23662169	55	2	3
B 1	Around Quigley	41 39 2 N 80 8 47 W	41.650556	-80.146389	Dotted Hawthorn	39	12.41408556	25	2	4
2	Around Quigley	41 39 1 N 80 8 46 W	41.650278	-80.145833	Weeping Cherry	40	12.73239545	20	3	5
3	Around Quigley	41 39 1 N 80 8 45 W	41.650278	-80.145833	Pin Oak	104	33.10422816	55	4	4
4	Around Quigley	41 39 1 N 80 8 45 W	41.650278	-80.145833	Pin Oak	103	32.78591828	65	4	5
5	Around Quigley	41 39 1 N 80 8 44 W	41.650278	-80.145556	Pin Oak	107	34.05915782	65	4	5
6	Around Quigley	41 39 1 N 80 8 44 W	41.650278	-80.145556	Sugar Maple	43	13.68732511	45	1	4
7	Around Quigley	41 39 1 N 80 8 44 W	41.650278	-80.145556	Blue Spruce	36	11.4591559	40	2	4
8	Around Quigley	41 39 2 N 80 8 44 W	41.650556	-80.145556	Blue Spruce	32.5	10.3450713	40	2	3
9	Around Quigley	41 39 2 N 80 8 44 W	41.650556	-80.145556	Blue Spruce	38	12.09577567	40	2	3
10	Around Quigley	41 39 2 N 80 8 44 W	41.650556	-80.145556	Blue Spruce	33	10.50422624	40	2	4
11	Admissions	41 39 0 N 80 8 45 W	41.65	-80.145833	Sugar Maple	78	24.82817112	35	3	3
12	Admissions	41 39 0 N 80 8 43 W	41.65	-80.145278	Blue Spruce	33	10.50422624	35	2	4
13	Arter	41 39 0 N 80 8 47 W	41.65	-80.146389	Sugar Maple	72	22.91831181	45	3	3
14	Arter	41 39 0 N 80 8 48 W	41.65	-80.146667	Hornbeam? Birch?	52	16.55211408	20	2	3
15	Arter	41 39 0 N 80 8 49 W	41.65	-80.146944	Red Maple	39.5	12.5732405	35	1	4
16	Arter	41 39 0 N 80 8 48 W	41.65	-80.146667	Black Cherry	85	27.05634033	50	4	4
17	Arter	41 38 59 N 80 8 48 W	41.649722	-80.146667	Sugar Maple	104	33.10422816	50	4	5
18	Arter	41 38 59 N 80 8 47 W	41.649722	-80.146389	White Cedar	31.5	10.02676141	30	2	3
19	Arter	41 38 59 N 80 8 46 W	41.649722	-80.146111	White Cedar	38	12.09577567	30	2	4
20	Baldwin	41 39 0 N 80 8 45 W	41.65	-80.145833	Honey Locust	49.5	15.75633937	45	3	4
21	Baldwin	41 39 0 N 80 8 45 W	41.65	-80.145833	Honey Locust	44	14.00563499	45	3	4
22	Baldwin	41 39 0 N 80 8 44 W	41.65	-80.145556	Honey Locust	42	13.36901522	45	3	4
23	Baldwin	41 39 0 N 80 8 44 W	41.65	-80.145556	Honey Locust	47.5	15.11971959	45	3	4
24	Baldwin	41 39 0 N 80 8 44 W	41.65	-80.145556	Honey Locust	42	13.36901522	45	3	4
25	Baldwin	41 39 0 N 80 8 43 W	41.65	-80.145278	Honey Locust	50	15.91549431	45	3	4
26	Baldwin	41 38 59 N 80 8 44 W	41.649722	-80.145556	Sugar Maple	44	14.00563499	35	2	1 / 0
27	Baldwin	41 38 59 N 80 8 46 W	41.649722	-80.146111	Ornamental Red Maple	40	12.73239545	30	2	5
28	Baldwin	41 38 59 N 41 38 45 W	41.649722	-80.145833	Sweet Gum	49	15.59718442	50	2	5
29	Baldwin	41 38 59 N 80 8 45 W	41.649722	-80.145833	Ornamental Red Maple	46	14.64225476	30	2	5
C1	South of Brooks	41 38 56 N 80 8 53 W	41.648889	-80.148056	Blue Spruce	38	12.09577567	55	2	4
2	South of Brooks	41 38 56 N 80 8 53 W	41.648889	-80.148056	Pin Oak	52	16.55211408	50	2	5
3	South of Brooks	41 38 55 N 80 8 52 W	41.648611	-80.147778	Pin Oak	53.5	17.02957891	50	2	5
4	South of Brooks	41 38 57 N 80 8 53 W	41.649167	-80.148056	Norway Spruce	33	10.50422624	40	1	5
5	South of Brooks	41 38 57 N 30 8 53 W	41.649167	-80.148056	Sugar Maple	128	40.74366543	70	4	4
6	South of Brooks	41 38 56 N 80 8 53 W	41.648889	-80.148056	Norway Spruce	77.5	24.66901618	75	4	4
7	South of Brooks	41 38 57 N 80 8 54 W	41.649167	-80.148333	Sugar Maple	96.6	30.74873501	45	3	3
8	Park Ave Brooks	41 38 59 N 80 8 52 W	41.649722	-80.147778	American Beech	52	16.55211408	50	3	4
9	Park Ave Brooks	41 38 59 N 80 8 53 W	41.649722	-80.148056	Basswood	37	11.77746579	40	1	4
10	Carr Brooks	41 39 0 N 80 8 52 W	41.65	-80.147778	Sugar Maple	77.5	24.66901618	60	3	5
11	Carr Brooks	41 39 0 N 80 8 52 W	41.65	-80.147778	Sugar Maple	53	16.87042397	60	3	4
12	Carr Brooks	41 39 1 N 80 8 52 W	41.650278	-80.147778	Sugar Maple	71	22.60000192	60	4	5
13	Carr Brooks	41 39 0 N 80 8 51 W	41.65	-80.1475	Sugar Maple	91	28.96619964	60	3	5
14	Carr Brooks	41 38 59 N 80 8 50 W	41.649722	-80.147222	Red Oak	72	22.91831181	55	3	4
15	Carr Brooks	41 39 0 N 80 8 50 W	41.65	-80.147222	Sugar Maple	70	22.28169203	50	2	4
16	Carr Brooks	41 39 0 N 80 8 52 W	41.65	-80.147778	Douglas Fir	46.5	14.80140971	45	2	4
17	Carr Brooks	41 39 1 N 80 8 52 W	41.650278	-80.147778	Douglas Fir	59	18.78028328	45	4	5
18	Carr / Park Ave	41 39 2 N 80 8 51 W	41.650556	-80.1475	Black Locust	85.5	27.21549527	55	3	5
19	Carr / Park Ave	41 39 2 N 80 8 52 W	41.650556	-80.147778	Honey Locust	49.5	15.75633937	60	3	5
20	Carr / Park Ave	41 39 2 N 80 8 51 W	41.650556	-80.1475	Honey Locust	48.5	15.43802948	60	3	5
21	Carr / Park Ave	41 39 2 N 80 8 51 W	41.650556	-80.1475	Honey Locust	37	11.77746579	45	3	4
22	Carr / Park Ave	41 39 2 N 80 8 51 W	41.650556	-80.1475	Honey Locust	36.5	11.61831085	45	3	4
23	Carr / Park Ave	41 39 2 N 80 8 51 W	41.650556	-80.1475	Red Oak	84.5	26.89718538	55	3	5
24	Carr / Park Ave	41 39 4 N 80 8 51 W	41.651111	-80.1475	Red Maple	42	13.36901522	35	1	5
25	Carr / Park Ave	41 39 3 N 80 8 50 W	41.650833	-80.147222	Douglas Fir	68	21.64507226	60	3	5
26	Along Carr / Brooks Sidewalk	41 38 59 N 80 8 51 W	41.649722	-80.1475	White Pine	72.5	23.07746675	55	4	5
27	Along Carr / Brooks Sidewalk	41 39 1 N 80 8 50 W	41.650278	-80.147222	Red Maple	41	13.05070533	40	2	5

28	Along Carr / Brooks Sidewalk	41 38 59 N 80 8 50 W	41.649722	-80.147222	Sugar Maple	57	18.14366351	40	2	5
29	Along Carr / Brooks Sidewalk	41 39 1 N 80 8 49 W	41.650278	-80.146944	Sugar Maple	43.5	13.84648005	45	2	5
30	Along Carr / Brooks Sidewalk	41 38 59 N 80 8 50 W	41.649722	-80.147222	Norway Spruce	59.5	18.93943823	70	4	4 - Topless
31	Along Carr / Brooks Sidewalk	71 38 59 N 80 8 50 W	41.649722	-80.147222	Norway Spruce	90	28.64788976	80	4	5
32	Along Carr / Brooks Sidewalk	41 38 59 N 80 8 50 W	41.649722	-80.147222	Black Ash	74	23.55493158	35	4	4
33	Along Carr / Brooks Sidewalk	41 38 59 N 80 8 51 W	41.649722	-80.1475	Gingko	107	34.05915782	50	4	5
34	Walker Courtyard	41 38 59 N 80 8 52 W	41.649722	-80.147778	Honey Locust	76	24.19155135	55	4	5
35	Walker Courtyard	41 38 58 N 80 8 51 W	41.649444	-80.1475	Sugar Maple	61	19.41690306	60	3	5
36	Walker Courtyard	41 38 58 N 80 8 51 W	41.649444	-80.1475	Honey Locust	67	21.32676237	55	4	4
37	Walker Courtyard	41 38 59 N 80 8 51 W	41.649722	-80.1475	Norway Spruce	77	24.50986124	65	4	5
38	Walker Courtyard	41 38 58 N 80 8 51 W	41.649444	-80.1475	Green Ash	143	45.51831372	65	4	3 / 2
39	Hullings Door	41 38 56 N 80 8 51 W	41.648889	-80.1475	Red Oak	49	15.59718442	50	2	4
D1	Green space btw Walker / Rise	41 38 59 N 80 8 48 W	41.649722	-80.146667	Service Berry	37	11.77746579	25	3	4
2	Green space btw Walker / Rise	41 38 58 N 80 8 48 W	41.649444	-80.146667	Norway Spruce	108	34.37746771	85	4	5
3	Green space btw Walker / Rise	41 38 58 N 80 8 49 W	41.649444	-80.146944	Amur Cork Tree	44	14.00563499	45	3	5
4	Green space btw Walker / Rise	41 38 59 N 80 8 49 W	41.649722	-80.146944	Sweet Gum	62, 78		50	4	4
5	Green space btw Walker / Rise	41 38 58 N 80 8 49 W	41.649444	-80.146944	Norway Spruce	66	21.00845249	55	3	4
6	Green space btw Walker / Rise	41 38 58 N 80 8 49 W	41.649444	-80.146944	Bald Cypress	90	28.64788976	55	4	5
7	Green space btw Walker / Rise	41 38 57 N 80 8 49 W	41.649167	-80.146944	Bald Cypress	157.5	50.13380707	60	4	5
8	Green space btw Walker / Rise	41 38 57 N 80 8 49 W	41.649167	-80.146944	Douglas Fir	78	24.82817112	65	3	4 / 3
9	Green space btw Walker / Rise	41 38 57 N 80 8 50 W	41.649167	-80.147222	Red Bud	41	13.05070533	25	3	4
10	Green space btw Walker / Rise	41 38 57 N 80 8 48 W	41.649167	-80.146667	Red Maple	100.5	31.99014356	65	4	3
11	Green space btw Walker / Rise	41 38 56 N 80 8 47 W	41.648889	-80.146389	Little Leaf Linden	43	13.68732511	40	3	5 / 4
12	Green space btw Walker / Rise	41 38 57 N 80 8 47 W	41.649167	-80.146389	Yellowwood	42, 29		30	2	5
13	Green space btw Walker / Rise	41 38 57 N 80 8 48 W	41.649167	-80.146667	White Oak	111	35.33239737	80	4	5
14	Green space btw Walker / Rise	**41 38 57 N 80 8 47 W**	41.649167	-80.146389	**Chestnut Oak**	**110**	**35.01408748**	**70**	**4**	**5**
15	Green space btw Walker / Rise	41 38 58 N 80 8 47 W	41.649444	-80.146389	White Oak	137	43.60845441	80	4	5
16	Green space btw Walker / Rise	41 38 58 N 80 8 47 W	41.649444	-80.146389	Mullberry	79	25.14648101	50	4	4
17	Green space btw Walker / Rise	41 38 58 N 80 8 47 W	41.649444	-80.146389	Norway Spruce	63	20.05352283	55	3	5
18	Green space btw Walker / Rise	41 38 58 N 80 8 46 W	41.649444	-80.146111	Crabapple	48	15.27887454	25	3	4
19	North of Rise	41 38 57 N 80 8 46 W	41.649167	-80.146111	Norway Spruce	100.5	31.99014356	75	4	5
20	North of Rise	41 38 57 N 80 8 46 W	41.649167	-80.146111	Norway Spruce	95	30.23943919	80	4	5
21	North of Rise	41 38 57 N 80 8 45 W	41.649167	-80.145833	Norway Spruce	45	14.32394488	50	2	5
22	North of Rise	41 38 57 N 80 8 44 W	41.649167	-80.145556	Red Maple	85	27.05634033	65	4	4
23	North of Rise	41 38 57 N 80 8 44 W	41.649167	-80.145556	Red Maple	92	29.28450953	55	4	5

24	Main of Rise	41 38 57 N 80 8 44 W	41.649167	-80.145556	Red Oak	96.5	30.71690402	65	4	4
25	Main of Rise	41 38 57 N 80 8 44 W	41.649167	-80.145556	Norway Maple	91	28.96619964	50	4	5
26	Main of Rise	41 38 57 N 80 8 44 W	41.649167	-80.145556	Red Maple	102	32.46760839	60	4	4
27	Main of Rise	41 38 56 N 80 8 45 W	41.648889	-80.145833	Red Maple	98	31.19436885	70	4	4
28	Main of Rise	41 38 56 N 80 8 45 W	41.648889	-80.145833	Catelpa	97	30.87605896	65	4	5
29	Main of Rise	41 38 56 N 80 8 45 W	41.648889	-80.145833	Red Maple	100.5	31.99014356	65	4	4
30	Main of Rise	41 38 56 N 80 8 44 W	41.648889	-80.145556	Norway Maple	43	13.68732511	55	2	5
31	Main of Rise	41 38 55 N 80 8 45 W	41.648611	-80.145833	Red Maple	71	22.60000192	65	3	4
32	Main of Rise	41 38 57 N 80 8 45 W	41.649167	-80.145833	Sycamore	43	13.68732511	60	2	4
33	Main of Rise	41 38 55 N 80 8 45 W	41.648611	-80.145833	Red Maple	68	21.64507226	55	3	4
34	Brooks Walk / S of Rise	41 38 55 N 80 8 45 W	41.648611	-80.145833	Flowering Fruit	55.6	17.69802967	45	2	1/0
35	Brooks Walk / S of Rise	41 38 56 N 80 8 46 W	41.648889	-80.145833	Honey Locust	86	27.37465021	65	4	4
36	Brooks Walk / S of Rise	41 38 56 N 80 8 46 W	41.648889	-80.145833	Hemlock	100	31.83098862	60	4	5
37	Brooks Walk / S of Rise	41 38 56 N 80 8 47 W	41.648889	-80.146389	Sweet Gum	91	28.96619964	65	4	5
38	Brooks Walk / S of Rise	41 38 56 N 80 8 48 W	41.648889	-80.146667	White Pine	107.5	34.21831276	85	4	5
39	Brooks Walk / S of Rise	41 38 56 N 80 8 47 W	41.648889	-80.146389	Red Oak	49	15.59718442	45	2	5
40	West of Rise	41 38 56 N 80 8 47 W	41.648889	-80.146389	White Oak	104	33.10422816	70	4	5
41	West of Rise	41 38 57 N 80 8 47 W	41.649167	-80.146389	Sweet Gum	99	31.51267873	75	4	5
42	West of Rise	41 38 57 N 80 8 46 W	41.649167	-80.145833	Tamarak	46	14.64225476	55	3	4
E1	Bentley	41 38 55 N 80 8 49 W	41.648611	-80.146944	Honey Locust	87	27.6929601	55	4	5
2	Bentley	41 38 56 N 80 8 49 W	41.648889	-80.146944	Honey Locust	87	27.6929601	60	4	5
3	Bentley	41 38 55 N 80 8 51 W	41.648611	-80.1475	Copper Ornamental Bee	151	48.06479281	55	4	5
4	Bentley	41 38 55 N 80 8 49 W	41.648611	-80.146944	White Cedar	44.5	14.16478994	35	4	5
5	Ruter Brooks Walk	41 38 54 N 80 8 49 W	41.648333	-80.146944	Ornamental Red Maple	77	24.50986124	50	3	5
6	Ruter Brooks Walk	41 38 55 N 80 8 47 W	41.648611	-80.146389	Douglas Fir	89.5	28.48873481	75	4	5
7	Ruter Brooks Walk	41 38 55 N 80 8 47 W	41.648611	-80.146389	Sweet Gum	34	10.82253613	30	1	5
8	Ruter Brooks Walk	41 38 55 N 80 8 47 W	41.648611	-80.146389	American Elm	62	19.73521294	35	2	4
9	Ruter Brooks Walk	41 38 54 N 80 8 46 W	41.648333	-80.145833	Tulip Poplar	76	24.19155135	55	3	5
10	Ruter Brooks Walk	41 38 54 N 80 8 46 W	41.648333	-80.145833	Blue Spruce	51.5	16.39295914	40	3	1/0
11	Ruter Brooks Walk	41 38 55 N 80 8 47 W	41.648611	-80.146389	Blue Spruce	33.5	10.66338119	45	2	4/3
12	Ruter Brooks Walk	41 38 54 N 80 8 45 W	41.648333	-80.146389	Red Maple	100.5	31.99014356	70	4	4
13	Ruter Brooks Walk	41 38 54 N 80 8 47 W	41.648333	-80.146389	Red Maple	87	27.6929601	65	4	5
14	Around Ruter	41 38 53 N 80 8 46 W	41.648056	-80.145833	Red Maple	78	24.82817112	45	3	5
15	Around Ruter	41 38 53 N 80 8 46 W	41.648056	-80.145833	Red Maple	78	24.82817112	50	3	4
16	Around Ruter	**41 38 53 N 80 8 47 W**	41.648056	-80.146389	Pin Oak	**112**	**35.65070725**	**85**	**4**	**5**

17	Around Ruter	41 38 54 N 80 8 47 W	41.648333	-80.146389	Honey Locust	71.5	22.75915688	65	4	5
18	Around Ruter	41 38 54 N 80 8 47 W	41.648333	-80.146389	Red Maple	108	34.37746771	60	4	5
19	Ford -> Security	41 38 52 N 80 8 48 W	41.647778	-80.146667	Blue Spruce	42	13.36901522	35	2	4
20	Ford -> Security	41 38 52 N 80 8 48 W	41.647778	-80.146667	Ornamental Red Maple	98.5	31.35352379	40	4	5
21	Ford -> Security	41 38 52 N 80 8 47 W	41.647778	-80.146389	Red Maple	125	39.78873577	60	4	5
22	Ford -> Security	41 38 52 N 80 8 47 W	41.647778	-80.146389	Red Maple	104	33.10422816	75	4	5
23	Ford -> Security	41 38 52 N 80 8 48 W	41.647778	-80.146667	Red Maple	92	29.28450953	50	4	4
24	Ford -> Security	41 38 51 N 80 8 47 W	41.6475	-80.146389	Red Maple	38	12.09577567	35	1	4
25	Ford -> Security	41 38 52 N 80 8 49 W	41.647778	-80.146944	Sugar Maple	35.5	11.30000096	30	1	5
26	Ford -> Security	41 38 51 N 80 8 47 W	41.6475	-80.146389	Blue Spruce	33	10.50422624	30	2	5
27	Ford -> Security	41 38 51 N 80 8 48 W	41.6475	-80.146667	Red Maple	119	37.87887646	70	4	5
28	Ford -> Security	41 38 51 N 80 8 47 W	41.6475	-80.146389	Red Maple	47	14.96056465	30	2	4
29	Ford -> Security	41 38 52 N 80 8 48 W	41.647778	-80.146667	Red Pine	70	22.28169203	65	3	4
30	Ford -> Security	41 38 51 N 80 4 49 W	41.6475	-80.146944	Red Pine	58	18.4619734	60	3	4
31	Ford -> Security	41 38 51 N 80 8 49 W	41.6475	-80.146944	Red Pine	57	18.14366351	40	3	4
32	Ford -> Security	41 38 51 N 80 8 49 W	41.6475	-80.146944	Weeping Cherry	63	20.05352283	25	4	3
33	Carn -> Security (Not Ravine Ed	41 38 49 N 80 8 48 W	41.646944	-80.146667	Red Maple	83.5	26.5788755	60	3	4
34	Carn -> Security (Not Ravine Ed	41 38 49 N 80 8 48 W	41.646944	-80.146667	Ameerican Basswood	162	51.56620156	70	4	5
35	Carn -> Security (Not Ravine Ed	41 38 49 N 80 8 49 W	41.646944	-80.146944	Ameerican Basswood	34.5	10.98169107	30	1	5
36	Carn -> Security (Not Ravine Ed	41 38 50 N 80 8 49 W	41.647222	-80.146944	Ameerican Basswood	137	43.60845441	80	4	5
37	Carn -> Security (Not Ravine Ed	41 38 49 N 80 8 48 W	41.646944	-80.146667	Ornamental Pear	47.5	15.11971959	30	3	2
38	Carn -> Security (Not Ravine Ed	41 38 50 N 80 8 50 W	41.647222	-80.147222	Elm? Flowering? Ornan	52	16.55211408	15	3	4
39	Carn -> Security (Not Ravine Ed	41 38 50 N 80 8 51 W	41.647222	-80.1475	Red Maple	98	31.19436885	65	4	5
40	Carn -> Security (Not Ravine Ed	41 38 51 N 80 8 50 W	41.6475	-80.147222	American Elm	68	21.64507226	55	3	5
41	Carn -> Security (Not Ravine Ed	41 38 51 N 80 8 50 W	41.6475	-80.147222	Horse Chestnut	91	28.96619964	45	4	5
42	Carn -> Security (Not Ravine Ed	41 38 50 N 80 8 50 W	41.647222	-80.147222	Green Ash	133	42.33521488	90	4	4
43	Carn -> Security (Not Ravine Ed	41 38 52 N 80 8 50 W	41.647778	-80.147222	Green Ash	129	41.06197532	80	4	4
44	Mulch by Carn	41 38 51 N 80 8 51 W	41.6475	-80.1475	Hemlock	61	19.41690306	55	3	5
45	Mulch by Carn	41 38 51 N 80 8 51 W	41.6475	-80.1475	Crabapple	48.5/37		30	4	4
46	Mulch by Carn	41 38 51 N 80 8 50 W	41.644722	-80.147222	Red Pine	59	18.78028328	55	3	4
47	Mulch by Carn	41 38 51 N 80 8 52 W	41.6475	-80.147778	Hemlock	86	27.37465021	60	4	5
48	Mulch by Carn	41 38 51 N 80 8 51 W	41.6475	-80.1475	Hemlock	60	19.09859317	60	3	5
49	Mulch by Carn	41 38 51 N 80 8 51W	41.6475	-80.1475	Hemlock	56	17.82535363	60	3	5
50	Mulch by Carn	41 38 51 N 80 8 51 W	41.6475	-80.1475	Hemlock	65	20.6901426	60	3	5
51	Mulch by Carn	41 38 51 N 80 8 51 W	41.6475	-80.1475	Hemlock	65	20.6901426	70	3	5

52	East Edge of Ravine	41 38 51 N 80 8 50 W	41.6475	-80.147222	Red Oak	111	35.33239737	80	4	5
53	East Edge of Ravine	41 38 52 N 80 8 50 W	41.647778	-80.147222	Red Oak	74	23.55493158	65	3	5
54	East Edge of Ravine	41 38 52 N 80 8 49 W	41.647778	-80.146944	Yew	48	15.27887454	30	4	5
55	East Edge of Ravine	41 38 52 N 80 8 49 W	41.647778	-80.146944	White Pine	107	34.05915782	75	4	5
56	East Edge of Ravine	41 38 52 N 80 8 48 W	41.647778	-80.146667	White Pine	50.5	16.07464925	50	3	5
57	East Edge of Ravine	41 38 53 N 80 8 49 W	41.648056	-80.146944	White Pine	83	26.41972055	55	4	5
58	East Edge of Ravine	41 38 53 N 80 8 48 W	41.648056	-80.146667	Sugar Maple	125	39.78873577	65	4	5
59	East Edge of Ravine	41 38 53 N 80 8 49 W	41.648056	-80.146944	White Pine	50	15.91549431	45	2	4
60	East Edge of Ravine	**41 38 53 N 80 8 48 W**	41.648056	-80.146667	**Black Cherry**	**61**	**19.41690306**	**55**	**3**	**4**
61	East Edge of Ravine	41 38 53 N 80 8 48 W	41.648056	-80.146667	Black Cherry	48	15.27887454	50	2	4
62	East Edge of Ravine	41 38 53 N 80 8 49 W	41.648056	-80.146944	Black Cherry	33	10.50422624	50	2	4
63	East Edge of Ravine	41 38 53 N 80 8 48 W	41.648056	-80.146667	Douglas Fir	35	11.14084602	40	1	1/0
64	East Edge of Ravine	41 38 54 N 80 8 48 W	41.648333	-80.146667	Tulip Poplar	51	16.2338042	50	3	5
65	Inner East	41 38 51 N 80 8 51 W	41.6475	-80.1475	White Pine	57	18.14366351	45	2	5
66	Inner East	41 38 51 N 80 8 50 W	41.6475	-80.147222	Magnolia of some kind	48	15.27887454	45	3	4
67	Inner East	41 38 52 N 80 8 50 W	41.648611	-80.147222	Basswood	56.5	17.98450857	55	3	5
68	Inner East	41 38 52 N 80 8 50 W	41.648611	-80.147222	Ash	39	12.41408556	50	2	4
69	Inner East	41 38 52 N 80 8 49 W	41.648611	-80.146944	Tulip Poplar	78	24.82817112	70	4	5
70	Inner East	41 38 52 N 80 8 49 W	41.648611	-80.146944	Red Maple	48	15.27887454	55	2	4
71	Inner East	41 38 53 N 80 8 48 W	41.648056	-80.146667	Pin Oak	77.5	24.66901618	65	3	4
72	West Edge of Ravine	41 38 54 N 80 8 48 W	41.648333	-80.146667	Green Ash	86	27.37465021	70	4	4
73	West Edge of Ravine	41 38 54 N 80 8 48 W	41.648333	-80.146667	Red Oak	119	37.87887646	80	4	5
74	West Edge of Ravine	41 38 54 N 80 8 49 W	41.648333	-80.146944	Red Maple	119	37.87887646	80	4	5
75	West Edge of Ravine	41 38 54 N 80 8 49 W	41.648333	-80.146944	Red Maple	99	31.51267873	75	4	4
76	West Edge of Ravine	41 38 53 N 80 8 49 W	41.648056	-80.146944	Green Ash	94	29.9211293	70	4	5
77	West Edge of Ravine	41 38 53 N 80 8 49 W	41.648056	-80.146944	Red Maple	105.5	33.58169299	65	4	5
78	West Edge of Ravine	41 38 53 N 80 8 49 W	41.648056	-80.146944	Red Oak	116	36.9239468	85	4	5
79	West Edge of Ravine	41 38 52 N 80 8 50 W	41.648611	-80.147222	Black Oak	132	42.01690498	90	4	5
80	West Edge of Ravine	41 38 52 N 80 8 50 W	41.648611	-80.147222	Red Maple	67	21.32676237	65	3	5
81	West Edge of Ravine	41 38 52 N 80 8 52 W	41.648611	-80.147778	Red Maple	106	33.74084794	60	4	4
82	West Edge of Ravine	41 38 52 N 80 8 51 W	41.648611	-80.1475	White Oak	108	34.37746771	65	4	5
83	Inner West	41 38 52 N 80 8 49 W	41.648611	-80.146944	Hemlock	83	26.41972055	75	4	4
84	Inner West	41 38 52 N 80 8 49 W	41.648611	-80.146944	White Pine	85.5	27.21549527	90	4	4
85	Inner West	41 38 52 N 80 8 49 W	41.648611	-80.146944	European Beech	48	15.27887454	50	3	3/2
86	Inner West	41 38 55 N 80 8 50 W	41.648611	-80.147222	Green Ash	44.5	14.16478994	65	2	3/2

F1	North of Schultz	41 38 55 N 80 8 50 W	41.648611	-80.147222	Sycamore	154.5	49.17887742	110	4	5
2	North of Schultz	41 38 54 N 80 8 50 W	41.648333	-80.147222	Red Oak	55	17.50704374	40	2	5
3	North of Schultz	41 38 54 N 80 8 50 W	41.648333	-80.147222	Red Oak	42	13.36901522	45	2	4
4	North of Schultz	41 38 55 N 80 8 54 W	41.648611	-80.148333	Red Oak	48	15.27887454	45	2	5
5	North of Schultz	41 38 55 N 80 8 53 W	41.648611	-80.148056	Red Oak	155	49.33803236	55	4	5
6	North of Schultz	41 38 54 N 80 8 52 W	41.648333	-80.147778	Horse Chestnut	132	42.01690498	55	4	5
7	North of Schultz	41 38 55 N 80 8 53 W	41.648611	-80.148056	Norway Spruce	79	25.14648101	65	4	5
8	North of Schultz	41 38 54 N 80 8 53 W	41.648333	-80.148056	Hemlock	86.5	27.53380515	50	4	4
9	North of Schultz	41 38 54 N 80 8 54 W	41.648333	-80.148333	Hemlock	109	34.69577759	55	4	5
10	North of Schultz	41 38 54 N 80 8 54 W	41.648333	-80.148333	Norway Spruce	48	15.27887454	35	2	5
11	North of Schultz	41 38 55 N 80 8 54 W	41.648611	-80.148333	Hemlock	71	22.60000192	50	3	4
12	North of Schultz	41 38 53 N 80 8 55 W	41.648056	-80.148611	Linden	47	14.96056465	45	2	4
13	North of Schultz	41 38 53 N 80 8 52 W	41.648056	-80.147778	Linden	53	16.87042397	40	2	4
14	North of Schultz	41 38 52 N 80 8 53 W	41.647778	-80.148056	Norway Maple	85.5	27.21549527	45	3	5
15	Bentley Lawn	41 38 54 N 80 8 54 W	41.648333	-80.148333	Hemlock	100.5	31.99014356	65	4	5
16	Bentley Lawn	41 38 52 N 80 8 53 W	41.647778	-80.148056	Sugar Maple	111	35.33239737	60	4	3
17	Bentley Lawn	41 38 55 N 80 8 53 W	41.648611	-80.148056	White Pine	120.5	38.35634129	70	4	4
18	Bentley Lawn	41 38 55 N 80 8 52 W	41.648611	-80.147778	Red Oak	102.5	32.62676333	60	4	5
19	Bentley Lawn	41 38 55 N 80 8 50 W	41.648611	-80.147222	Red Maple	87	27.6929601	45	3	4
20	Bentley Lawn	41 38 54 N 80 8 51 W	41.648333	-80.1475	Red Maple	107.5	34.21831276	60	4	5
21	Bentley Lawn	41 38 54 N 80 8 51 W	41.648333	-80.1475	Red Maple	88	28.01126998	35	2	4
22	Bentley Lawn	41 38 54 N 80 8 51 W	41.648333	-80.1475	White Pine	97.5	31.0352139	62	4	5
23	Bentley Lawn	41 38 54 N 80 8 52 W	41.648333	-80.147778	Red Maple	125	39.78873577	60	4	3
24	Bentley Lawn	41 38 53 N 80 8 52 W	41.648056	-80.147778	Red Maple	83	26.41972055	50	3	4
25	Bentley Lawn	41 38 54 N 80 8 53 W	41.648333	-80.148056	Norway Maple	80	25.46479089	55	3	5
26	Bentley Lawn	41 38 54 N 80 8 54 W	41.648333	-80.148333	Red Maple	110	35.01408748	50	4	4
27	Park Ave Schultz	41 38 55 N 80 8 51 W	41.648611	-80.1475	Red Maple	143	45.51831372	65	4	3
28	Park Ave Schultz	41 38 53 N 80 8 54 W	41.648056	-80.148333	Red Maple	43	13.68732511	35	1	4
29	Park Ave Schultz	41 38 53 N 80 8 55 W	41.648056	-80.148611	Honey Locust	74.5	23.71408652	50	3	5
30	Park Ave Schultz	41 38 53 N 80 8 55 W	41.648056	-80.148611	Honey Locust	80	25.46479089	50	3	5
31	Park Ave Schultz	41 38 53 N 80 8 55 W	41.648056	-80.148611	Sweet Gum	62.5	19.89436789	60	3	5
32	Park Ave Schultz	41 38 52 N 80 8 55 W	41.647778	-80.148611	Sweet Gum	43	13.68732511	55	1	5
33	Park Ave Schultz	41 38 52 N 80 8 55 W	41.647778	-80.148611	Sweet Gum	57.5	18.30281846	55	3	5
34	Park Ave Schultz	41 38 52 N 80 8 55 W	41.647778	-80.148611	Austrian Pine	42	13.36901522	35	2	3
35	Park Ave Schultz	41 38 52 N 80 8 56 W	41.647778	-80.148889	Austrian Pine	48.5	15.43802948	35	2	3

36	Winslow P-lot N	41 38 52 N 80 8 56 W	41.647778	-80.148889	Austrian Pine	51.5	16.39295914	35	2	3
37	Winslow P-lot N	41 38 51 N 80 8 56 W	41.6475	-80.148889	White Pine	64	20.37183272	40	2	5
38	Winslow P-lot N	41 38 50 N 80 8 55 W	41.647222	-80.148611	White Pine	56.5	17.98450857	40	2	2
39	Winslow P-lot N	41 38 51 N 80 8 56 W	41.6475	-80.148889	White Pine	52	16.55211408	40	2	3
40	Winslow P-lot N	41 38 50 N 80 8 55 W	41.647222	-80.148611	White Pine	44	14.00563499	35	2	4
41	Winslow P-lot N	41 38 50 N 80 8 54 W	41.647222	-80.148333	White Pine	56	17.82535363	45	2	5
42	Winslow P-lot E	41 38 50 N 80 8 55 W	41.647222	-80.148611	Blue Spruce	45.5	14.48309982	45	2	3
43	Winslow P-lot E	41 38 49 N 80 8 53 W	41.646944	-80.148056	Blue Spruce	40.5	12.89155039	45	2	4
44	Winslow P-lot E	41 38 48 N 80 8 52 W	41.646667	-80.147778	Norway Maple	47	14.96056465	45	2	4
45	Winslow P-lot E	41 38 49 N 80 8 53 W	41.646944	-80.148056	Red Oak	58.5	18.62112834	60	3	5
46	Winslow P-lot E	41 38 49 N 80 8 53 W	41.646944	-80.148056	Red Oak	55	17.50704374	55	2	4
47	West of Maintence	41 38 48 N 80 8 53 W	41.646667	-80.148056	Linden	63	20.05352283	35	1	4
48	West of Maintence	41 38 50 N 80 8 53 W	41.647222	-80.148056	Douglas Fir	53.5	17.02957891	45	2	3
49	West of Maintence	41 38 49 N 80 8 53 W	41.646944	-80.148056	Norway Maple	48.5	15.43802948	45	2	4
50	West of Maintence	41 38 49 N 80 8 54 W	41.646944	-80.148333	Tamarak	59.5	18.93943823	50	3	4
51	West of Maintence	41 38 49 N 80 8 54 W	41.646944	-80.148333	Red Oak	148	47.10986316	60	4	5
52	West of Maintence	41 38 49 N 80 8 53 W	41.646944	-80.148056	Norway Maple	31.5	10.02676141	45	1	5
53	West of Maintence	41 38 49 N 80 8 53 W	41.646944	-80.148056	Black Cherry	52	16.55211408	50	2	4
54	West of Maintence	41 38 49 N 80 8 53 W	41.646944	-80.148056	Red Oak	79	25.14648101	50	3	5
55	AC Sign	41 38 48 N 80 8 50 W	41.646667	-80.147222	Black Cherry	35.5	11.30000096	40	2	4
56	AC Sign	41 38 49 N 80 8 50 W	41.646944	-80.147222	Sugar Maple	65	20.6901426	35	3	4
57	AC Sign	41 38 48 N 80 8 51 W	41.646667	-80.1475	Sugar Maple	38	12.09577567	40	2	4
58	AC Sign	41 38 48 N 80 8 51 W	41.646667	-80.1475	Black Cherry	34	10.82253613	30	1	4
59	AC Sign	41 38 47 N 80 8 50 W	41.646389	-80.147222	Sugar Maple	100	31.83098862	40	2	2
60	AC Sign	41 38 47 N 80 8 50 W	41.646389	-80.147222	Douglas Fir	40.5	12.89155039	30	1	5
61	AC Sign	41 38 48 N 80 8 51 W	41.646667	-80.1475	Red Maple	49	15.59718442	25	1	2
62	AC Sign	41 38 48 N 80 8 49 W	41.646667	-80.146944	Tulip Poplar	47	14.96056465	45	2	5
63	AC Sign	41 38 47 N 80 8 49 W	41.646389	-80.146944	Norway Spruce	45.5	14.48309982	35	1	5
64	AC Sign	41 38 48 N 80 8 50 W	41.646667	-80.147222	Norway Spruce	35	11.14084602	35	1	5
65	AC Sign	41 38 48 N 80 8 50 W	41.646667	-80.147222	Tulip Poplar	37	11.77746579	45	2	5
66	AC Sign	41 38 47 N 80 8 49 W	41.646389	-80.146944	White Pine	41.5	13.20986028	35	1	5
67	AC Sign	41 38 48 N 80 8 52 W	41.646667	-80.147778	Tulip Poplar	47.5	15.11971959	50	2	5
68	Carn	41 38 48 N 80 8 49 W	41.646667	-80.146944	Red Maple	39	12.41408556	30	1	4
69	Carn	41 38 49 N 80 8 48 W	41.646944	-80.146667	Red Maple	138	43.92676429	60	4	4
70	Carn	41 38 49 N 80 8 49 W	41.646944	-80.146944	Basswood	63	20.05352283	45	2	3

71	Carn	41 38 49 N 80 8 49 W	41.646944	-80.146944	Blue Spruce	52	16.55211408	65	3	5
72	Carn	41 38 50 N 80 8 51 W	41.647222	-80.1475	Honey Locust	89	28.32957987	50	3	4
G	NONE									
H1	Caflish / Alden	41 38 59 N 80 8 40 W	41.649722	-80.144444	Ornamental Red Maple	43	13.68732511	35	1	5
2	Caflish / Alden	41 38 58 N 80 8 42 W	41.649444	-80.145	Red Maple	99.5	31.67183368	60	4	5
3	Caflish / Alden	41 38 56 N 80 8 43 W	41.648889	-80.145278	Sugar Maple	121	38.51549623	60	4	5
4	Caflish / Alden	41 38 57 N 80 8 41 W	41.649167	-80.144722	Honey Locust	86	27.37465021	55	4	5
5	Caflish / Alden	41 38 56 N 80 8 41 W	41.648889	-80.144722	Red Maple	75	23.87324146	80	3	4
6	Caflish / Alden	41 38 57 N 80 8 40 W	41.649167	-80.144444	Pin Oak	85.5	27.21549527	60	3	5
7	Caflish / Alden	41 38 58 N 80 8 40 W	41.649444	-80.144444	Sugar Maple	41	13.05070533	50	2	5
8	Caflish / Alden	41 38 57 N 80 8 40 W	41.649167	-80.144444	Service Berry	36	11.4591559	45	3	5
9	Caflish / Alden	41 38 58 N 80 8 41 W	41.649444	-80.144722	Service Berry	37	11.77746579	40	3	5
10	Caflish / Alden	41 38 56 N 80 8 40 W	41.648889	-80.144444	Pin Oak	88	28.01126998	60	3	5
11	Caflish / Alden	41 38 58 N 80 8 40 W	41.649444	-80.144444	Pin Oak	75	23.87324146	55	3	5
12	Tippie	41 38 56 N 80 8 41 W	41.648889	-80.144722	Black Walnut	157	49.97465213	55	4	5
13	Tippie	41 38 55 N 80 8 43 W	41.648611	-80.145278	Ornamental Red Maple	76	24.19155135	35	3	5
14	Tippie	41 38 54 N 80 8 43 W	41.648333	-80.145278	Ornamental Red Maple	66.5	21.16760743	40	3	5
15	Tippie	41 38 54 N 80 8 42 W	41.648333	-80.145	Red Maple	32	10.18591636	30	1	4
16	Tippie	41 38 55 N 80 8 42 W	41.648611	-80.145	Norway Spruce	37.5	11.93662073	35	1	5
17	Tippie	41 38 55 N 80 8 42 W	41.648611	-80.145	White Pine	33.5	10.66338119	30	1	5
I1	Montgomery	41 38 55 N 80 8 44 W	41.648611	-80.145556	Sugar Maple	84	26.73803044	55	3	4
2	Montgomery	41 38 54 N 80 8 44 W	41.648333	-80.145556	Red Maple	78	24.82817112	45	3	4
3	Montgomery	41 38 52 N 80 8 45 W	41.647778	-80.145833	Tulip Popular	89.5	28.48873481	65	4	5
4	Montgomery	41 38 53 N 80 8 45 W	41.648056	-80.145833	Red Oak	110	35.01408748	45	4	5
5	Montgomery	41 38 52 N 80 8 43 W	41.647778	-80.145278	Sugar Maple	124	39.47042589	55	4	5
6	Montgomery	41 38 53 N 80 8 45 W	41.648056	-80.145833	Pin Oak	109.5	34.85493254	70	4	5
7	Montgomery	41 38 52 N 80 8 42 W	41.647778	-80.145	Silver Maple	35.5	11.30000096	45	1	5

8	Murray	41 38 53 N 80 8 42 W	41.648056	-80.145	Silver Maple	33.5	10.66338119	35	1	5
9	Murray	41 38 53 N 80 8 42 W	41.648056	-80.145	Silver Maple	32.5	10.3450713	35	1	5
10	Murray	41 38 53 N 80 8 43 W	41.648056	-80.145278	Silver Maple	40	12.73239545	40	1	5
11	Murray	41 38 52 N 80 8 43 W	41.647778	-80.145278	Silver Maple	42.5	13.52817016	40	1	5
12	Murray	41 38 52 N 80 8 43 W	41.647778	-80.145278	Silver Maple	39	12.41408556	40	1	5
13	Murray	41 38 51 N 80 8 42 W	41.6475	-80.145	Gingko	54	17.18873385	40	2	4
14	Murray	41 38 52 N 80 8 42 W	41.647778	-80.145	Gingko	99	31.51267873	45	4	5
15	Murray	41 38 52 N 80 8 41 W	41.647778	-80.144722	Gingko	48	15.27887454	25	2	4
16	Murray	41 38 52 N 80 8 41 W	41.647778	-80.144722	Gingko	120	38.19718634	40	4	5
17	Murray	41 38 52 N 80 8 41 W	41.647778	-80.144722	Gingko	70	22.28169203	40	3	5
18	Murray	41 38 51 N 80 8 39 W	41.6475	-80.144167	Gingko	86	27.37465021	45	4	5
19	Murray	41 38 51 N 80 8 39 W	41.6475	-80.144167	Gingko	52	16.55211408	35	3	5
20	Murray	41 38 51 N 80 8 38 W	41.6475	-80.143889	Gingko	98	31.19436885	45	4	5
21	Murray	41 38 51 N 80 8 38 W	41.6475	-80.143889	Honey Locust	77.5	24.66901618	45	3	5
22	Murray	41 38 52 N 80 8 37 W	41.647778	-80.143611	Honey Locust	77	24.50986124	45	3	5
23	Murray	41 38 52 N 80 8 37 W	41.647778	-80.143611	Honey Locust	90	28.64788976	45	4	5
24	Murray	41 38 53 N 80 8 41 W	41.648056	-80.144722	Crabapple	41	13.05070533	25	4	5
J1	North West Trees	41 38 59 N 80 8 37 W	41.649722	-80.143611	White Pine	34	10.82253613		1	4
2	North West Trees	41 38 59 N 80 8 38 W	41.649722	-80.143889	White Pine	32	10.18591636		1	5
3	North West Trees	41 38 59 N 80 8 38 W	41.649722	-80.143889	White Pine	36	11.4591559		1	5
4	North West Trees	41 38 59 N 80 8 38 W	41.649722	-80.143889	Tulip Popular	32	10.18591636		1	5
5	North West Trees	41 38 59 N 80 8 37 W	41.649722	-80.143611	White Pine	39	12.41408556		1	5
6	North West Trees	41 38 59 N 80 8 37 W	41.649722	-80.143611	Red Maple	31.5	10.02676141			
7	North West Trees	41 38 59 N 80 8 36 W	41.649722	-80.143333	Red Maple	32	10.18591636			
8	North West Trees	41 38 59 N 80 8 34 W	41.649722	-80.142778	Honey Locust	39	12.41408556			
9	North West Trees	41 38 58 N 80 8 34 W	41.649444	-80.142778	Honey Locust	45	14.32394488			
10	North West Trees	41 38 58 N 80 8 34 W	41.649444	-80.142778	Honey Locust	96	30.55774907			

11	North West Trees	41 38 58 N 80 8 34 W	41.649444	-80.142778	Honey Locust	64	20.37183272			
12	North West Trees	41 38 58 N 80 8 33 W	41.649444	-80.1425	Honey Locust	53	16.87042397			
13	North West Trees	41 38 58 N 80 8 33 W	41.649444	-80.1425	Honey Locust	42	13.36901522			
14	North West Trees	41 38 58 N 80 8 33 W	41.649444	-80.1425	Honey Locust	32,38				
15	North West Trees	41 38 57 N 80 8 34 W	41.649167	-80.142778	Common Horse Chestn	87	27.6929601			
16	North West Trees	41 38 57 N 80 8 34 W	41.649167	-80.142778	Sugar Maple	63	20.05352283			
17	North West Trees	41 38 56 N 80 8 35 W	41.648889	-80.143056	Service Berry					
18	Gator Quad	41 38 57 N 80 8 38 W	41.649167	-80.143889	Service Berry					
19	Gator Quad	41 38 56 N 80 8 38 W	41.648889	-80.143889	Pin Oak					
20	Gator Quad	41 38 56 N 80 8 38 W	41.648889	-80.143889	Pin Oak					
21	Gator Quad	41 38 55 N 80 8 38 W	41.648611	-80.143889	Pin Oak					
22	Gator Quad	41 38 56 N 80 8 39 W	41.648889	-80.144167	Pin Oak					
23	West -> East South Edge of CC	41 38 54 N 80 8 40 W	41.648333	-80.144444	Pin Oak					
24	West -> East South Edge of CC	41 38 55 N 80 8 41 W	41.648611	-80.144722	Sugar Maple	40	12.73239545	40	1	4
25	West -> East South Edge of CC	41 38 53 N 80 8 40 W	41.648056	-80.144444	White Pine	39	12.41408556	40	1	5
26	West -> East South Edge of CC	41 38 54 N 80 8 39 W	41.648333	-80.144167	White Pine	45.5	14.48309982	40	1	5
27	West -> East South Edge of CC	41 35 54 N 80 8 39 W	41.648333	-80.144167	White Pine	44.5	14.16478994	45	1	5
28	West -> East South Edge of CC	41 38 54 N 80 8 39 W	41.648333	-80.144167	White Pine	42.5	13.52817016	45	1	5
29	West -> East South Edge of CC	41 38 53 N 80 8 40 W	41.648056	-80.144444	White Pine	40	12.73239545	45	1	5
30	West -> East South Edge of CC	41 38 53 N 80 8 40 W	41.648056	-80.144444	White Pine	97.5	31.0352139	35	1	5
31	West -> East South Edge of CC	41 38 53 N 80 8 40 W	41.648056	-80.144444	White Pine	50	15.91549431	45	1	5
32	West -> East South Edge of CC	41 38 53 N 80 8 40 W	41.648056	-80.144444	Sugar Maple	52.5	16.71126902	35	1	4
33	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	61	19.41690306	45	1	5
34	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	47	14.96056465	40	1	4
35	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	44	14.00563499	40	1	4
36	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	48.5	15.43802948	40	1	4
37	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	37.5	11.93662073	35	1	4

38	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	50	15.91549431	40	1	5
39	West -> East South Edge of CC	41 38 53 N 80 8 38 W	41.648056	-80.143889	White Pine	46	14.64225476	50	1	5
40	West -> East South Edge of CC	41 38 53 N 80 8 37 W	41.648056	-80.143611	White Pine	48	15.27887454	50	1	5
41	West -> East South Edge of CC	41 38 53 N 80 8 37 W	41.648056	-80.143611	White Pine	73.5	23.39577663	50	2	4
42	West -> East South Edge of CC	41 38 53 N 80 8 37 W	41.648056	-80.143611	Red Maple	46	14.64225476	45	1	4
43	West -> East South Edge of CC	41 38 53 N 80 8 37 W	41.648056	-80.143611	White Pine	62	19.73521294	55	1	4
44	West -> East South Edge of CC	41 38 52 N 80 8 37 W	41.647778	-80.143611	Honey Locust	74	23.55493158	55	2	5
K - NONE										
L- NONE										
M1	North of Crawford & Wise	41 38 58 N 80 8 32 W	41.649444	-80.142222	Pin Oak	47	14.96056465	40	2	5
2	North of Crawford & Wise	41 38 58 N 80 8 33 W	41.649444	-80.1425	Pin Oak	33.5	10.66338119	35	1	4
3	North of Crawford & Wise	41 38 58 N 80 8 32 W	41.649444	-80.142222	Sugar Maple	125	39.78873577	60	4	5
4	North of Crawford & Wise	41 38 58 N 80 8 32 W	41.649444	-80.142222	Honey Locust	96	30.55774907	50	4	5
5	North of Crawford & Wise	41 38 56 N 80 8 32 W	41.648889	-80.142222	Honey Locust	68	21.64507226	45	3	5
6	North of Crawford & Wise	41 38 57 N 80 8 31 W	41.649167	-80.141944	Honey Locust	77	24.50986124	45	3	5
7	North of Crawford & Wise	41 38 56 N 80 8 32 W	41.648889	-80.142222	Honey Locust	86.5	27.53380515	55	4	5
8	North of Crawford & Wise	41 38 56 N 80 8 32 W	41.648889	-80.142222	Honey Locust	52	16.55211408	45	3	5
9	North of Crawford & Wise	41 38 56 N 80 8 31 W	41.648889	-80.141944	Scotch Pine	49.5	15.75633937	55	2	0
10	North of Crawford & Wise	41 38 56 N 80 8 31 W	41.648889	-80.141944	Scotch Pine	58	18.4619734	55	2	0
11	North of Crawford & Wise	41 38 56 N 80 8 31 W	41.648889	-80.141944	Scotch Pine	52	16.55211408	55	3	4
12	North of Crawford & Wise	41 38 56 N 80 8 30 W	41.648889	-80.141667	Scotch Pine	46.5	14.80140971	55	4	5
13	North of Crawford & Wise	41 38 56 N 80 8 32 W	41.648889	-80.142222	Scotch Pine	80	25.46479089	50	4	5
14	North of Crawford & Wise	41 38 55 N 80 8 30 W	41.648611	-80.141667	Scotch Pine	61.5	19.576058	55	3	5
15	North of Crawford & Wise	41 38 56 N 80 8 29 W	41.648889	-80.141389	Scotch Pine	61	19.41690306	55	3	5
16	North of Crawford & Wise	41 38 55 N 80 8 28 W	41.648611	-80.141111	Scotch Pine	70	22.28169203	50	4	5
17	North of Crawford & Wise	41 38 55 N 80 8 30 W	41.648611	-80.141667	Honey Locust	58.5	18.62112834	40	3	5
18	West of Crawford	41 38 57 N 80 8 34 W	41.649167	-80.142778	Elm	35.5	11.30000096	25	2	5
19	West of Crawford	41 38 57 N 80 8 34 W	41.649167	-80.142778	Red Maple	69	21.96338215	40	3	3
20	West of Crawford	41 38 57 N 80 8 34 W	41.649167	-80.142778	Basswood	100	31.83098862	50	4	5
21	West of Crawford	41 38 57 N 80 8 34 W	41.649167	-80.142778	Sugar Maple	66.5	21.16760743	50	3	5
22	West of Crawford	41 38 56 N 80 8 32 W	41.648889	-80.142222	Pin Oak	72.5	23.07746675	45	4	4
23	West of Crawford	41 38 57 N 80 8 32 W	41.649167	-80.142222	Honey Locust	87	27.6929601	50	4	5
24	West of Crawford	41 38 56 N 80 8 32 W	41.648889	-80.142222	Red Maple	67	21.32676237	40	3	4
25	@ pool	41 38 55 N 80 8 35 W	41.648611	-80.143056	Ornamental Elm	41	13.05070533	25	3	5
26	@ pool	41 38 54 N 80 8 35 W	41.648333	-80.143056	Blue Spruce	61	19.41690306	50	3	3
27	@ pool	41 38 54 N 80 8 35 W	41.648333	-80.143056	Norway Spruce	87	27.6929601	60	4	5
28	@ pool	41 38 54 N 80 8 36 W	41.648333	-80.143333	Norway Spruce	81.5	25.94225572	55	4	5
29	South of Wise	41 38 55 N 80 8 32 W	41.648611	-80.142222	Pin Oak	76	24.19155135	55	3	5
N1	Library	41 38 51 N 80 8 43 W	41.6475	-80.145278	Basswood	42	13.36901522	40	1	4
2	Library	41 38 52 N 80 8 42 W	41.647778	-80.145	Basswood	62	19.73521294	45	1	5
3	Library	41 38 50 N 80 8 43 W	41.647222	-80.145278	Norway Spruce	83	26.41972055	65	3	5
4	Library	41 38 49 N 80 8 44 W	41.646944	-80.145556	Columner English Oak	45	14.32394488	50	3	4
5	Library	41 38 49 N 80 8 45 W	41.646944	-80.145833	Columner English Oak	37	11.77746579	50	3	4
6	Library	41 38 50 N 80 8 45 W	41.647222	-80.145833	White Pine	39	12.41408556	25	1	5
7	Library	41 38 50 N 80 8 45 W	41.647222	-80.145833	Pin Oak	75	23.87324146	45	4	5
8	Library	41 38 49 N 80 8 46 W	41.646944	-80.146111	Pin Oak	66	21.00845249	60	3	5
9	Library	41 38 50 N 80 8 46 W	41.647222	-80.146111	Pin Oak	56	17.82535363	55	3	5
10	Library	41 38 50 N 80 8 46 W	41.647222	-80.146111	Pin Oak	59	18.78028328	60	3	4
11	Library	41 38 51 N 80 8 46 W	41.6475	-80.146111	Scotch Pine	63	20.05352283	40	3	3
12	Library	41 38 51 N 80 8 45 W	41.6475	-80.145833	Scotch Pine	43	13.68732511	40	3	3-2
O1	College Court	41 38 50 N 80 8 41 W	41.647222	-80.144722	Red Maple	37	11.77746579		1	5
2	College Court	41 38 49 N 80 8 41 W	41.646944	-80.144722	Red Maple	38	12.09577567		1	5
3	College Court	41 38 49 N 80 8 42 W	41.646944	-80.145	Norway Maple	31	9.867606472		1	4
4	College Court	41 38 49 N 80 8 42 W	41.646944	-80.145	American Elm	36	11.4591559		1	4
5	College Court	41 38 49 N 80 8 42 W	41.646944	-80.145	Black Walnut	33	10.50422624		1	4
6	College Court	41 38 49 N 80 8 41 W	41.646944	-80.144722	Black Walnut	37	11.77746579		1	4
7	College Court	41 38 50 N 80 8 41 W	41.647222	-80.144722	Sugar Maple	35	11.14084602		2	3
8	College Court	41 38 50 N 80 8 41 W	41.647222	-80.144722	Red Maple	36	11.4591559		1	4
9	College Court	41 38 50 N 80 8 41 W	41.647222	-80.144722	Service Berry	37	11.77746579		2	4
10	College Court	41 38 49 N 80 8 41 W	41.646944	-80.144722	Sugar Maple	112	35.65070725		4	5
11	College Court	41 38 48 N 80 8 42 W	41.646667	-80.145	Norway Spruce	31	9.867606472		1	5
12	College Court	41 38 48 N 80 8 41 W	41.646667	-80.144722	Norway Spruce	31	9.867606472		1	4
13	College Court	41 38 48 N 80 8 41 W	41.646667	-80.144722	Norway Spruce	39	12.41408556		1	5
14	College Court	41 38 48 N 80 8 41 W	41.646667	-80.144722	Norway Spruce	33	10.50422624		1	5
15	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	Aspen	32	10.18591636		2	5
16	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	Aspen	32	10.18591636		2	4
17	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	Black Ash	31	9.867606472		2	4
18	College Court	41 38 48 N 80 8 41 W	41.646667	-80.144722	White Ash	46	14.64225476		2	5
19	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	White Ash	44	14.00563499		2	5
20	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	White Ash	39	12.41408556		2	5
21	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	White Ash	40	12.73239545		2	5
22	College Court	41 38 49 N 80 8 40 W	41.646944	-80.144444	White Ash	36	11.4591559		2	5
23	College Court	41 38 48 N 80 8 40 W	41.646667	-80.144444	White Ash	33	10.50422624		2	5
24	College Court	41 38 49 N 80 8 40 W	41.646944	-80.144444	Black Ash	35	11.14084602		2	5
25	College Court	41 38 49 N 80 8 40 W	41.646944	-80.144444	Blue Spruce	44	14.00563499		2	3/2
26	College Court	41 38 49 N 80 8 41 W	41.646944	-80.144722	Norway Spruce	30	9.549296586		1	4
27	College Court	41 38 49 N 80 8 41 W	41.646944	-80.144722	Red Maple	35	11.14084602		1	5
28	College Court	41 38 49 N 80 8 41 W	41.646944	-80.144722	Red Maple	30	9.549296586		1	4
P1	Parking Lot North	41 38 52 N 80 8 34 W	41.647778	-80.142778						
2	Parking Lot East	41 38 50 N 80 8 34 W	41.647222	-80.142778						
3	Parking Lot East	41 38 50 N 80 8 34 W	41.647222	-80.142778						
4	Parking Lot East	41 38 50 N 80 8 34 W	41.647222	-80.142778						

5	Parking Lot East	41 38 50 N 80 8 34 W	41.647222	-80.142778						
6	Parking Lot East	41 38 50 N 80 8 34 W	41.647222	-80.142778						
7	Parking Lot East	41 38 50 N 80 8 34 W	41.647222	-80.142778						
8	South	41 38 49 N 80 8 34 W	41.646944	-80.142778						
9	South	41 38 49 N 80 8 34 W	41.646944	-80.142778						
10	South	41 38 49 N 80 8 34 W	41.646944	-80.142778						
11	South	41 38 49 N 80 8 34 W	41.646944	-80.142778						
12	South	41 38 49 N 80 8 35 W	41.646944	-80.143056						
13	South	41 38 49 N 80 8 35 W	41.646944	-80.143056						
14	South	41 38 50 N 80 8 35 W	41.647222	-80.143056						
15	West/Courtyard	41 38 50 N 80 8 35 W	41.647222	-80.143056						
16	West/Courtyard	41 38 50 N 80 8 35 W	41.647222	-80.143056						
17	West/Courtyard	41 38 50 N 80 8 35 W	41.647222	-80.143056						
18	West/Courtyard	41 38 51 N 80 8 36 W	41.6475	-80.143333						
19	West/Courtyard	41 38 51 N 80 8 36 W	41.6475	-80.143333						
20	West/Courtyard	41 38 51 N 80 8 36 W	41.6475	-80.143333						
21	West/Courtyard	41 38 51 N 80 8 35 W	41.6475	-80.143333						
22	West/Courtyard	41 38 51 N 80 8 36 W	41.6475	-80.143333						
23	West/Courtyard	41 38 51 N 80 8 36 W	41.6475	-80.143333						
Q1	Front of Stairs	41 38 51 N 80 8 30 W	41.6475	-80.141667	Black Cherry	76	24.19155135	70	3	3
2	Front of Stairs	41 38 50 N 80 8 28 W	41.647222	-80.141111	Red Oak	53	16.87042397	50	2	4
3	Front of Stairs	41 38 50 N 80 8 29 W	41.647222	-80.141389	Red Oak	89	28.32957987	75	3	5
4	Front of Stairs	41 38 50 N 80 8 29 W	41.647222	-80.141389	Black Cherry	60	19.09859317	65	3	4
5	Front of Stairs	41 38 50 N 80 8 29 W	41.647222	-80.141389	Sugar Maple	63	20.05352283	65	3	4
6	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Black Cherry	52	16.55211408	65	3	4
7	Front of Stairs	41 38 51 N 80 8 30 W	41.6475	-80.141667	Red Oak	123	39.152116	75	4	4
8	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Oak	80	25.46479089	70	3	4
9	Front of Stairs	41 38 50 N 80 8 29 W	41.647222	-80.141389	Red Oak	78	24.82817112	70	3	4
10	Front of Stairs	41 38 51 N 80 8 29 W	41.6475	-80.141389	Black Cherry	67	21.32676237	45	3	4
11	Front of Stairs	41 38 51 N 80 8 30 W	41.6475	-80.141667	Red Oak	69	21.96338215	55	3	4
12	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Maple	81	25.78310078	70	3	4
13	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Red Maple	59	18.78028328	60	3	4
14	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Sugar Maple	60	19.09859317	55	3	4
15	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Maple	59	18.78028328	65	3	4
16	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Maple	67	21.32676237	45	3	4
17	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Maple	51	16.2338042	60	3	4
18	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Oak	95	30.23943919	80	3	4
19	Front of Stairs	41 38 50 N 80 8 30 W	41.647222	-80.141667	Red Oak	74	23.55493158	60	3	4
20	Front of Stairs	41 38 50 N 80 8 29 W	41.647222	-80.141389	Red Oak	97	30.87605896	85	4	5
21	Front of Stairs	41 38 49 N 80 8 29 W	41.646944	-80.141389	Red Oak	67	21.32676237	60	3	4
22	Front of Stairs	41 38 49 N 80 8 29 W	41.646944	-80.141389	Red Oak	78	24.82817112	6	3	4
23	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Red Oak	53	16.87042397	6	2	3
24	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Red Maple	43	13.68732511	65	2	4
25	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Red Maple	41	13.05070533	55	1	4
26	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Red Maple	37	11.77746579	40	1	4
27	Front of Stairs	41 38 48 N 80 8 30 W	41.646667	-80.141667	Red Oak	81	25.78310078	75	3	4
28	Front of Stairs	41 38 49 N 80 8 30 W	41.646944	-80.141667	Red Oak	98	31.19436885	75	3	5
29	Front of Stairs	41 38 48 N 80 8 31 W	41.646667	-80.141944	Black Cherry	54	17.18873385	50	2	3
30	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Norway Maple	46	14.64225476	65	2	4
31	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	84	26.73803044	65	3	4
32	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	84	26.73803044	70	3	4
33	Front of Stairs	41 38 48 N 80 8 31 W	41.646667	-80.141944	Red Oak	62	19.73521294	55	2	4
34	Front of Stairs	41 38 48 N 80 8 31 W	41.646667	-80.141944	Sugar Maple	48	15.27887454	55	2	4
35	Front of Stairs	41 38 48 N 80 8 32 W	41.646667	-80.142222	Norway Maple	45	14.32394488	60	2	4
36	Front of Stairs	41 38 49 N 80 8 32 W	41.646944	-80.142222	Black Oak	81	25.78310078	80	4	5
37	Front of Stairs	41 38 49 N 80 8 32 W	41.646944	-80.142222	Sugar Maple	38	12.09577567	45	2	4
38	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	71	22.60000192	75	3	4
39	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	56	17.82535363	75	3	4
40	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Maple	48	15.27887454	55	2	4
41	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	40	12.73239545	50	2	4
42	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Maple	34	10.82253613	55	2	4
43	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Black Oak	57	18.14366351	65	2	4
44	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	51	16.2338042	70	3	4
45	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Oak	102	32.46760839	80	4	4
46	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Red Maple	41	13.05070533	45	2	4
47	Front of Stairs	41 38 49 N 80 8 31 W	41.646944	-80.141944	Sugar Maple	39	12.41408556	35	1	3
48	Parking Lot of Ravine	41 38 49 N 80 8 26 W	41.646944	-80.140556	Red Maple	94.5	30.08028424	65	3	5
49	Parking Lot of Ravine	41 38 49 N 80 8 26 W	41.646944	-80.140556	Pin Oak	112.5	35.8098622	65	4	5

3. Historical Tree Data

Key #	Common Name	Latin Name	Description of Location	DBH
1	American Holly - Male	Ilex Opacaa	East of Carnegie Hall	
2	Gray Birch	Betula Populifolia	North of Maintenance Building	
3	Carolina Hemlock	Tsuga Carolinianum	North-East of Carnegie Hall	
4	American Linden/ Basswood	Tilia Americana	North of Carnegie Hall	14.25
5	Sycamore Maple	Acer Pseudoplatanus	Park Ave - East of Observatory	21
6	Japanese Maple	Acer Palmatum	South-East Corner of Observatory	
7	Fernlead Japanese Maple	Acer Palmatum Dissectum	East of Observatory	
8	Red-leaf Japanese Maple	Acer Palmatum Atropurpureum	North-East of Observatory	
9	Japanese Weeping Cherry	Prunus Subhurtella Pendula	North-East Corner of Observatory	7.5
10	Red Pine	Pinus Resinosa	North of Observatory	16.5
11	Camperdown Elm	Ulmus Glabra 'Camperdownii'	North of Carnegie Hall	12
12	White Ash	Fraxinus Americana	West of Observatory - Edge of Ravine	33.5
13	Paul's Scarlet Hawthorn	Crataegus Oxyacantha 'Pauli'	West of Ford Chapel - Edge of Ravine	
14	American Elm	Ulmus Americana	South-East Corner of Ford Chapel	45.33
15	Red Maple	Acer Rubrum	South of Ford Chapel	33
16	Norway Maple	Acer Platanoides	South of Ford Chapel	16.25
17	Pin Oak	Quercus Palustris	Between Ford Chapel and Ruter Hall	21.75
18	Cockspur Thorn	Crataegus Crus-Galli	North of Ruter Hall	
19	White Fir	Abies Amabilis	North-East of Drinking Fountain	16
20	Huntingdon Elm	Ulmus 'huntingdonii'	South of Reis Hall-Lower side of Drive	15
21	Bradford Pear	Pyrus Calleriana 'Bradford'	West of Lord Gate	
22	American Elm	Ulmus Americana	North of Lord Gate	49.5
23	Red Maple	Acer Rubrum	North of Lord Gate	30
24	Catalpa - Indean Bean	Xatalpa Bignonioides	East of Reis Hall	22
25	White Pine	Pinus Strobus	East of Reis Hall	37
26	Kousa - Japanese Dogwood	Cornus Kousa	Front of Reis Hall - Six Specimen	Large Shrub
27	Canadian Hemloock	Tsuga Canadensis	South-East of Reis Hall	Evergreen
28	Sweet Gum	Liquidambar Styraciflua	South-West Corner of Reis Hall	16.25
29	Sweet Gum	Liquidambar Styraciflua	West Side of Reis Hall	16.25
30	European Larch	Larix Decidua	West side of Reis Hall	
31	Chestnut Oak	Quercus Montana	West of Reis Hall in Ravine	22.5
32	White Oak	Quercus Alba	North-West of Reis Hall	30.75
33	Thornless Honey Locust	Gleditsia Triacanthos Inermis	North of Ford Chapel	16.75
34	Yellow Willow	Salix Vitellina	Bottom of Ravine - West of Ford Chapel	
35	Shadbush/Juneberry/Service Berry	Amerlanchier Canadensis	Below East End of Rustic Bridge - Clump	
36	Red Bud/ Judas Tree	Cercis Canadensis	Below East End of Rustic Bridge - Clump	Small Tree
37	Katsura Tree	Cercidiphyllum Japonicum	North of Maintenance Building	
38	Chinese Elm	Ulmus Parviflora	Above East End of Rustic Bridge	26.5
39	Tulip Tree	Liriodendron Tulipifera	Bottom of Ravine, Near Yellow Willow	
40	Oak Leaf Mountain Ash	Sorbus Quercifolia	South-West Corner of Reis Hall	Small Tree
41	Sweet Gum	Liquidambar Styraciflua	North of Baldwin Hall	9
42	Ruby Horse Chestnut	Aesculus Carnea 'Briotti'	North of Carr Hall	3.75
43	Bald Cypress	Taxodium Dustichum	North of Carr Hall	6.5
44	Sweet Bay Magnolia	Magnolia Glauca	Front of Carr Hall	Large Shrub
45	Columnar English White Oak	Quercus Robur Fastigiata	West Side of Carr	Clump
46	Japanese Pagoda Tree	Sophora Japonica	South-West Corner of Carr Hall	16.75
47	Ginkgo - Mainenhair Tree	Ginkgo Biloba	North-East of Walker-Annex Biloba	23.5
48	Carolina Poplar	Populus Deltiodes	South-West Corner of Costume Shop	45
49	White Ash	Fraxinus Americana	East of Walker Annex	29.5
50	Yellow-Wood	Cladrastic Lutea	Area East of Entrance to Walker Annex	
51	Castor Aralia	Acanthropanax Ricinifolium	Area East of Entrance to Walker Annex	17
52	Bald Cypress	Taxodium Dustichum	Area East of Entrance to Walker Annex	12
53	Dawn Redwood	Metasequoia Glyptostroboides	Area East of Entrance to Walker Annex	16.75
54	Amur Cork Tree	Phillodendron Amurense	East of Entrance to Walker Hall	20.5

55	Siberian Pea-Tree	Caragana Arborescens-Clump	Area East of Entrance to Walker Annex	Large Shrub
56	Japanese Tree Lilac	Syringa Amurensis Japonica	Area East of Walker Hall	Small Tree
57	Purple European Beech	Fagus Sylvatica Atropurpurea	West End of Bentley Hall	34.75
58	Sycamore / American Plane-Tree	Platanus Occidentalis	South-West Corner of Bentley Hall	40.5
59	Crimson King Maple	Acer Platanoides	East End of Bentley Hall	13.75
60	Common Horse Chestnut	Aesculus Hippocastanum	South-West of Bentley Hall	38.75
61	White Pine	Pinus Strobus	South-West of Bentley Hall	32.5
62	Red Oak	Quercus Borealis	South-West of Bentley Hall	36
63	Common Horse Chestnut	Aesculus Hippocastanum	South-West of Bentley Hall	26.75
64	Norway Spruce	Picea Excelsa	Below Drive Exit to Park Ave	29
65	Canadian Hemloock	Tsuga Canadensis	Below Drive Exit to Park Ave	31.75
66	American Elm	Ulmus Americana	South (Shultz) Hall	44.25
67	Littleleaf Linden	Tilia Cordata	West of Baldwin Hall	14
68	English White Oak	Quercus Robur	North-West Corner of Edwards House	9
69	Sour Gum / Black Tupelo	Nyssa Sylvatica	Back of Edwards House	
70	Austrian Pine	Pinus Nigra Austriaca	West Side of Pelletier Library	
71	Ginkgo - Mainenhair Tree	Ginkgo Biloba	Top of Wall - North Side of E College St	1 there, largest 22
72	Thornless Honey Locust	Gleditsia Triacanthos Inermis	Highland Ave, Btw Campus Center and Murray	-4
73	European Hornbeam	Carpinus Betulus	East Side of Campus Center	
74	Mulberry	Morus Alba	North Side of Phi Kappa Psi House	
75	Cornelian Cherry	Cornus Mas	Either Side of Mellon Building Entrance	Large Shrub
76	Washington Hawthorn	Crateagus Phaenopyum	North Side of Mellon Building	Small Tree
77	Scotch Pine	Pinus Sylvestris	Row Next to Parking lot, North of Mellon Building	
78	Tree of Heaven	Ailanthus Glandulosa	East of Parking lot, North of Mellon Building	Small Tree
79	Temple's Maple	Acer Saccharum Monumentale	North East Corner of Alden Hall	6

80	Black Walnut	Juglans Nigra	North of Cochran Hall	
81	Red Oak	Quercus Borealis	Along Peach Alley, Back of 425 N Main St	51.5
82	Persimmon	Diospyros Virginiana	Along South Prop line, Back of 425 N Main St	21.25
83	Gray Birch	Betula Populifolia	Parking lot, East of Brooks Hall	
84	Sugar Maple	Acer Saccharum	East Side of Brooks Hall	
85	Colorado Spruce	Picea Pungens	Area East of Walkers Hall	
86	Flowering Crab	Malus in Variety	East of Walker Hall	Small Tree
87	Pink Flowering Dogwood	Cornus Florida Rubra	N Main Entrance to Carnegie Hall Parking Lot	Small Tree
88	White Flowering Dogwood	Cornus Florida	Near Drinking Fountain	Small Tree
89	Saucer Magnolia	Magnolia Soulangeana	East of Caflisch Gall, Along Peach Alley	Small Tree
90	Fraser Fir	Abies Fraseri	North Side of Campus Drive at Park Ave Exit	
91	Emerald Queen Maple	Platanoides 'Emerald Queen'	Reis Hall, East of Front Entrance, by V in walk	4.5

4. Memorial Trees and Benches

Type	Name	Location	Donor	Plaque	Honoree	Tree Type	Datatel	NOTES	Current Match?
Tree	Shelly Ackerman Tree	On the bank between the West door of Be	Admissions Office	Given in loving m	Shelly Ackerman	Acer Saccharum	62		
Tree	Allegheny Hall Earth Day Tree	Northeast entrance of the Campus Center	Miscellaneous donors	X	X	Quercus Macroc	61		
Tree	Allegheny Hillel Tree	On East College Road between Pelletier L	Hillel: The Foundation of Jewish C	Allegheny Hillel: "When you come		Acer Saccharum	333		
Bench	Alpha Delta Pi Bench	Between Reis Hall and Walker Hall	Miscellaneous donors	Presented by Alp	Alpha Delta Pi	X	367		
Tree	Adriane R. Aul Memorial Tree	Northwest of Cafisch Hall between buildin	Miscellaneous donors	In loving memory	Adriane R. Aul 2	Acer Rubrum (Re	363		
Flagpole	Alumni Council Flagpole Base	Base of the College flagpole; outside of th	Allegheny Alumni Council and Alu	This flagpole was made possible b		X	59		
Tree	Barnes, Barnes & Womer Memorial Tr	Next to Senior Circle and behind Cochran	Clark Womer Barnes	Given in memory	Lynn L. Barnes, I	Zelkova Serrata (	350		
Bench	G. Michael Barth Bench	South of Newton Observatory	Sigma Alpha Epsilon brothers and	This bench is de	G. Michael Barth	X	374		
Tree	Emily Boughton Memorial Tree	Near playground by Steffee Hall	Sarah Holt	In loving memory	Emily Boughton	Fagus sylvatica r	434		
Walkway	Brooks Walk	Plaque on left of Brooks Walk on North Ma	Mr. Silas R. Mountsier III 1952	Brooks Walk- Gi	X	X	106		
Tree	John Brown Memorial Tree	To the left when looking at Cochran Hall fr	Miscellaneous donors	Given in memory	John Brown	Zelkova Serrata (	378		
Tree	George Burton Tree	South of Pelletier Library along Sherman S	Miscellaneous donors	As of Summer 2(	George Burton	Acer Platanoides	63		
Tree	William E. Challener, Jr. Memorial Tree	Southeast corner of Carnegie Hall	Miscellaneous donors	As of Summer 2(	William E. Challe	Saucer Magnolia	65		
Rock	Civil War Memorial Rock	Southeast of Bentley Hall	Miscellaneous Donors	1910 – In memory of the men of Al		X	182		
Trees	Class of 1873 Memorial Trees / Circle (	Between Newton Observatory and Ford C	Class of 1873	The Circle of Pines. Planted by the		Pinus Resinosa (	56	One tree was planted for each of the 15 members; ac	
Sundial	Class of 1899 Sundial	Northeast corner of Schultz Hall	Class of 1899	Class of 1899 - T	X	X	228		
Pillars	Class of 1905 Pillars	Park Avenue, to the right of Hulings Hall	Class of 1905	1905 Class	X	X	393		
Bench	Class of 1919 Outdoor Bench	To the right of the main entrance to the Ca	Class of 1919	Class of 1919	X	X	202		
Tree	Class of 1940 Tree	The east side of the juncture of the sidewa	Class of 1940	X	X	Acer Platanoides	58	The original planting weakened in the late 1970s and	
Bench	Class of 1950 - World War II Bench	North of Brooks Walk and Bentley Hall	Class of 1950	In honor of class	X	X	304		
Tree	Class of 1952 Memorial Tree	Corner of Ruter Hall	Class of 1952	Given in memory	X	Fagus Sylvatica (	327		
Bench	Class of 1953 Bench	Left of the entrance to Bentley Hall, off of E	Class of 1953	Gift of the Class	X	X	186		
Bench	Class of 1953 Bench	Left of the entrance to Bentley Hall, off of E	Class of 1953	Gift of the Class	X	X	186		
Bench	Class of 1953 Bench	Right of the entrance to Bentley Hall, off of	Class of 1953	Gift of the Class	X	X	186		
Tree	Class of 1953 Memorial Tree	South of Ruter Hall at the junction of the fo	Miscellaneous donors	Given in memory	X	Fraxinus America	328		
Tree	Class of 1954 Memorial Tree	South of Ford Chapel	Miscellaneous donors	Given in memory	X	Acer Saccharum	326		
Tree	Class of 1956 Memorial Tree	Near Senior Circle; towards Cochran Hall	Miscellaneous donors	Given in memory	X	Zelkova Serrata (	369		
Tree	Class of 1993 Memorial Tree	North of Brooks Walk, just west of the upp	Class of 1993	Given in memory	X	Tilia Cordata (Ba	60		
Tree	George R. Cook Memorial Trees	Just south of the driveway to the parking a	Miscellaneous donors	George R. Cook	X	Quercus Rubra (I	64		
Tree	Richard J. Cook Tree	South of Hulings Hall, just above the parki	Class of 2000	Given in honor of	Richard J. Cook	Querous Palustri	349		
Bench & Garden	Susan Allman Cook '68 Garden and Be	Between Doane Hall of Chemistry and Cal	Miscellaneous Donors	Susan Allman Co	Susan Allman Co	X	199		
Rock	John Scott Craig Rock	Southwest of Quigley Hall	Mr. John S. Craig 1938	The gift of John S	X	X	168	Perhaps this was an old fountain. This is the best pho	
Fountain	William H. Crawford Fountain	Between Bentley Hall and Ruter Hall	Miscellaneous donors	William H. Crawf	X	X	180		
Tree	Robert L. Crispin Memorial Tree	Southwest corner of Arter Hall, near the in	Family of Robert L. Crispin	Life. Love. Learn	Robert L. Crispin	Crataegus Viridis	364		
Tree	Michelle Cross Tree	Southwest of Newton Observatory	Miscellaneous donors	X	Michelle Cross	Pyrus Calleryana	67	As of Summer 2014, the plaque could not be located.	
Tree	Jennifer Dehart Tree	Between Quigley Hall and Steffee Science	Miscellaneous donors	X	Jennifer Dehart	Metasequoia Gly	382	As of Summer 2014, the plaque could not be located.	

Tree	R. Budd Dwyer Memorial Tree	Between Brooks Hall and Crawford Founta	Miscellaneous donors	X	R. Budd Dwyer 1	Acer Platanoides	68	As of Summer 2014, plaque could not be located.		
Bench	Joe Fetcko Benches	In front of Quigley Hall – both bench and s	Miscellaneous donors	In memory of Joe	Joseph F. Fetcko	X	373			
Tree	Ford Memorial Chapel Centennial Tree	Between Ford Chapel and Ruter Hall, alon	Worshipping communities of Ford	A gift of the wors	x	Acer Rubrum (Re	88			
Tree	Mr. & Mrs. Harold J. Fox Memorial Tree	Southwest of Ford Chapel's rear entrance,	Miscellaneous donors	Given in memory	Mr. Harold J. Fox	Prunus Sargenti	358			
Tree	Gene Hammitt Tree	South of Hulings Hall	Miscellaneous donors	X	Gene Hammitt	Catalpa Speciosa	379	As of Summer 2014, the plaque could not be locate		
Bench	William Hanson Memorial Benches	Along walking path at Robertson Field, alo	Michael McGrew 1954, P1979 an	In memory of Wil	William "Bill" Har	X	416			
Tree	Carol L. Hartley Memorial Tree	Outside of the entrance to the Arnold Hall	Miscellaneous donors	In memory of Ca	Carol L. Hartley	Cornus florida (P	394			
Bench	Nancy J. Heath Memorial Bench	Student entrance to Wise Center on Highl	Family of Nancy Heath	In memory of Na	Nancy J. Heath	X	305			
Tree	Jeremy Hyde Tree	West of North Main Street between Ford C	Miscellaneous donors	X	Jeremy Hyde	Picea Pungens (I	69	As of Summer 2014, plaque cannot be located.		
Plaza	Isaac and Reiner Plaque- Bicentennial	On right pillar of the Bicentennial Plaza, w	Frederick J. Isaac 1970 and Robir	Frederick J. Isaa	X	X	395			
Tree	Pat Kantz Memorial Tree	First tree east of the main entrance of Carı	Miscellaneous donors	Given in memory	Pat Kantz P1994	Carpinus Belutus	368			
Tree	Paul and Ruth Knights Memorial Trees	Between Montgomery Gym and East Colle	Classes of 1957, 1958, and 1959	Given in memory	Paul Knights and	Opaca Female, C	362	There are two trees, a female holly and a male holly		
Rock	The Marquis Lafayette Rock	East side of Reis Hall	Miscellaneous donors	In December, 17	X	X	224			
Landscaping	Joanne LaTourette Planting	In the ravine next to the Rustic Bridge	Miscellaneous donors	X	Joanne LaTouret	Leucojum Aestivı	347	As of Summer 2014, plaque cannot be located.		
Tree	Alyson Lawendowski Memorial Tree	Between Arter Hall and the Prayer and Me	Miscellaneous donors	In celebration of	Alyson Lawendo	Malus "Spring Sn	70	The original tree was located in front of the Newton		
Sundial	Anthony Lo Bello Sundial	To the left of the sidewalk leading up to Art	Barry Stransky 1983	Placed in honor	Professor Anthor	X	431	There is a time capsule placed beneath the sundial		
Gate	Samuel Lord Gate	Plaque on the pillar of Brooks Walk on Nor	Miscellaneous donors	First pillar: Allegh	Samuel Lord 183	X	205	There are two pillars, and there is on plaque on each		
Tree	Morten Luvaas Memorial Tree	Near Newton Observatory	Miscellaneous donors	X	Morten Luvaas	Unknown	376	As of Summer 2014, this tree was unable to be locat		
Tree	John (Jack) Machesky Memorial Tree	North of Brooks Circle	Miscellaneous donors	X	John (Jack) Mac	Quercus Borealis	71	As of Summer 2014, plaque cannot be located.		
Tree	Paraskevi (Evi) Mavrogeorgis Memoria	Between Cochran Hall and Alden Hall	Miscellaneous donors	In loving memory	Paraskevi Mavro	Unknown	371	There are two memorial trees on campus for Parask		
Tree	Paraskevi (Evi) Mavrogeorgis Memoria	South of Hulings Hall	Miscellaneous donors	Given in memory	Paraskevi Mavro	Quercus Palustris	72	There are two memorial trees on campus for Parask		
Tree	George "Skip" McKallip, Jr. Memorial T	The right corner of Alden Hall, when lookir	Classmates of George "Skip" McK	Given in memory	George "Skip" Mc	Prunus Subhirtell	426			
Tree	George M. Miller Tree	Just north of driveway to the parking lot an	Miscellaneous donors	This tree was pla	George M. Miller	Abeis Fraseri (Fr	73			
Tree	Stephen Mitchell Tree	Between Cochran Hall and Alden Hall, alo	Classmates of Stephen H. Mitchel	Given in memory	Stephen H. Mitch	Stewartia Pseudo	425			
Tree	Dr. James Moffat and Elinore T. Moffat	Between Ford Chapel and Reuter Hall	Marian (Mimi) Moffat, Tom Jepson	Given in memory	Dr. James Moffat	Acer Saccharum	370			
Sculpture	Moore Gator Sculpture	In the Gator Quad, on the way into the Hei	Loyal Moore 1951 and Marjorie M	Sculpted by Mari	x	x	396			
Tree	Gretchen Michele Moss Memorial Tree	West bank of the ravine, opposite of the bi	Miscellaneous donors	In loving memory	Gretchen Michel	Cornus Kousa (K	74			
Tree	Walter Scott Nettrour, IV, MD Memorial	South of Brooks Walk and northwest of Re	Miscellaneous donors	This tree was giv	Walter Scott Nett	Liquidambar Styr	75			
Plaque	Pennsylvania Historical and Museum C	Corner of North Main Street and East Colle	Miscellaneous donors	Allegheny Colleg	X	X	334			
Tree	Adrienne Post Memorial Tree	Courtyard of Walker Hall Annex	Miscellaneous donors	In loving memory	Adrienne Post 20	Cornus Kousa Dc	76			
Bench	Suzan Pysher Memorial Bench	Between Reuter Hall and Ford Chapel, fac	Dale Pysher 1971	In loving memory	Suzan Marquis F	X	384	The bench, tree, and surrounding shrubbery are all		
Tree	Suzan Pysher Memorial Tree	Between Reuter Hall and Ford Chapel, fac	Matthew Pysher	In memory of Su	Suzan Marquis F	Cornus Florida (F	385	The bench, tree, and surrounding shrubbery are all		
Walkway	Quade Walk	Between Cochran Hall and Montgomery G	Silas R. Mountsier III ' 52 and the	Quade Walk- a g	X	X	90			
Bench	Herbert E. Ransford, Jr. and Cora Krau	On Tippie Alumni Center Patio – on the lef	Miscellaneous donors	In loving memory	Herbert E. Ransf	X	375			
Bench & Garden	Reisacher Bench and Plantings	Within the ravine	Naomi Reisacher Davison 1926	Planting areas ar	X	X	325			

Planting	Stanley A. Right, Jr. Memorial Planting	Formerly, north side of the east door of Sc	Miscellaneous donors	X	Stanley A. Right,	X	77	This is no longer the same, as the Bicentennial plaza		
Bench & Garden	Charles and Reba Rinehart Bench and	Grove to the east of the science complex	Anne Rinehart Donnell 1994	In memory of my	Charles and Reb	X	34			
Bench	Jo Robertson Memorial Bench	On Brooks Walk, below Reis Hall, facing B	Ken Robertson 1965	Given in honor o	Jo Robertson an	X	388			
Planting	Rosie's Garden	Right side of the entrance to Reis Hall	Miscellaneous donors	"Afio mai". Welcc	Rosalie Ah Wong	X	389			
Bridge	Rustic Bridge	Plaque is on west side of the bridge to you	Miscellaneous donors	The rustic bridge	Sarah B. Cochra	X	207			
Bench	Harald R. Sauer Memorial Bench	West side of Bentley Hall next to Hulings F	Mrs. Eleanor Morris Sauer P1982	In memory of Re	Harald R. Sauer	X	361			
Tree	Clarence and Helena Mumaw Schwart	In front of Steffee Hall	Miscellaneous donors	In honor of Clare	Clarence Schwa	Tilia Cordata (Ba	372			
Sculpture	Senior Circle	Between Cochran Hall and Murray Hall	Miscellaneous Donors	"The future belor	X	X	329	Each class year is engraved following that year's gra		
Bench	Dennis T. Sheehan Memorial Bench	On the Tippie Alumni Center Patio on the r	Peggy Koosh Sheehan	In loving memory	Dennis T. Sheeh	X	366			
Tree	Robert T. Sherman Memorial Tree	In front of the East entrance to Hulings Ha	Miscellaneous donors	Given in memory	Robert T. Sherm	Quercus Borealis	79			
Planting	Kathleen V. Shivers Memorial Planting	By the College flagpole in front of Cochran	Miscellaneous donors	X	Kathleen V. Shiv	Marigolds	80			
Fountain	Schultz Fountain	Schultz Patio	Mr. Lewis Walker 1877	The gift of Lewis	X	X	176	This former fountain is now a planting.		
Rock	Sophomores of the Class of 1880 Rock	Outside Bentley Hall, at the northeast corn	Miscellaneous donors	Spes sibi quisqu	Class of 1880	X	181			
Tree	Arthur D. '56 and William P. '57 Steffee	North of Steffee Hall	Miscellaneous donors	X	Dr. Arthur D. Ste	Acer Saccharum	279			
Tree	Daniel F. and Ann Sullivan Trees	North of Brooks Walk on the way to the Pr	Miscellaneous donors	Daniel F. Sullivar	Dr. Daniel F. Sull	Cercis Canadens	81	As of Summer 2014, no plaque can be found		
Tree	George Sullivan Tree	Southwest of Lord Gate, next to the first lig	Miscellaneous donors	X	George Sullivan,	Lirodendron Tulip	82	As of Summer 2014, no plaque can be found		
Plaque	Super Poolers Plaque	Brick wall on Sherman St. near corner of S	Miscellaneous donors	Super Pool 50th.	Thomas Myers 1	X	430			
Bench	Nancy Sutton Bench	Overlooking the ravine, behind Ford Chapı	Silas R. Mountsier III 1952	Come dancer, co	Nancy Lea Sutto	X	124	This bench is accompanied by plantings for Nancy L		
Planting	Nancy Sutton Plantings	Overlooking the ravine, behind Ford Chapı	Silas R. Mountsier III 1952	Nancy Lea Sutto	Nancy Lea Sutto	X	84	These plantings are accompanied by a bench for Na		
Tree	Theta Chi Tree	In front of the east entry of Caflisch Hall	Miscellaneous donors	Beta Chi Theta C	X	Acer Freeman (A	83	This plaque cannot be located. A plaque was ordere		
Tree	Tillotson Tree	To the right of the windows of Schultz Ban	Miscellaneous donors	In grateful recogr	Carol Hefren Till	Prunus serrulata	397			
Plaque	Tillotson plaque- Bicentennial Plaza	On left pillar of the Bicentennial Plaza, wh	Miscellaneous donors	In memory of Willard J. "Bill" Tillots		Willard J. "Bill" Ti	398			
Tree	Terrific Tippie Tree	East of the handicapped entrance sidewall	Miscellaneous donors	The Chalmers sa	Patricia Tippie 19	Amelanchier Gra	348			
Patio	Tippie Alumni Center Patio	Behind Cochran Hall	Miscellaneous donors; each brick	Each brick is indi	X	X	X		See additional book for individual plaque images and	
Tree	Jennifer Tsangaris Memorial Tree	Southwest corner of Ford Chapel	Miscellaneous donors	X	Jennifer Tsangar	Acer Griseum (Pa	85	As of Summer 2014, the plaque could not be located		
Plaque	Vietnam War Memorial	Bottom of the slope of the west side of the	Miscellaneous donors	Dedicated to all /	Vietnam War Vet	X	324			
Tree	Ruth Wheeler Memorial Tree	East of Walker Annex	Miscellaneous donors	Given in memory	Ruth Wheeler	Platanus Occider	380	As of Summer 2014, no plaque could be found.		
Tree	John J. Williams & Harriette Williams M	On the corner between Baldwin Hall and tl	Lynne E. Harrison and Jack D. Wi	Given in memory	John J. Williams	Acer Saccharum	365			
Bench	Paula Wurst Memorial Bench	Outside of the Campus Center, 2nd level e	Professor Glen G. Wurst	In honor of Paula	Paula Coyle Wur	X	377			
Tree	George W. Yuhasz Tree	Southwest of the Highland Avenue entran	Men's Cross Country Team of 198	X	George W. Yuha	Carpinus Caroliı	86	As of Summer 2014, the exact tree is unknown. It co		
Tree	Betty Miller Zaro Memorial Tree	West of 204 and 205 Sherman Street (Col	Timothy Zaro 1979	Betty Miller Zaro,	Betty Miller Zaro	Cornus Kousa (K	87	Plaque cannot be located.		