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### Salve Regina Arboretum Ten Year Plan to Reach Level III Accreditation

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# Salve Regina Arboretum Ten Year Plan to Reach Level III Accreditation

A collaboration between Dr. Jameson Chace at Salve Regina University and Helen Papp with the Newport Tree Society

Editors: Allyson Gilbert, Madeline Lark, Kyle McGuire, Krysta Tsangrides

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*Summary* -- The Salve Regina University Arboretum, located in Newport, Rhode Island is currently registered as a Level II arboretum and is intertwined with the city of Newport Arboretum. The university now has intentions to reach Level III status, as part of a ten-year plan. This plan was developed by the students of the Spring 2018 BIO 255: Conservation Biology course, instructed by Dr. Jameson Chace, Associate Professor of biology at Salve Regina University. As part of a curriculum geared towards civic engagement, the class focused on creating and optimizing strategies that can be applied to the ten-year plan. These strategies were applied to the plan categorically: a team to inventory the current tree collection; a team to develop formal educational programming; a team for informal educational programming; a team to establish goals for conservation initiative related to the arboretum; a team dedicated to research related to arboreta; and a team to develop a list of species of special interest to add to the arboretum in the coming years.

In the following document, each team's strategies for the ten-year plan are outlined. Each of the components of this plan incorporate means to fulfill the conditions to meet Level III arboretum status so that the arboretum can apply for official registration. The aforementioned teams were tasked with designing a foundation on which to work up from. This includes formal educational programming to be applied to classroom settings and informal educational programming which can be applied to community outreach-based settings. The teams that worked to strengthen the arboretum's mission of conservation focused on researching trees that can fit into the current landscape while providing some sort of benefit to the surrounding flora/fauna. Further, many of the species of interest, such as the chestnut, hold historical value to the greater Rhode Island region. In all, the Salve Regina Arboretum must achieve a total of 500 unique species of trees and woody plants as part of its efforts to apply for Level III status.

In addition to the programming and research performed so far by the student teams, the arboretum must also hire a curator to manage the programming and to oversee the arboretum as a whole. Additionally, the arboretum must continue to actively collaborate

with other arboreta and should encourage scientific research. It is important to recognize that the Salve Regina University Arboretum has already been utilized in the field of microbiology and has gained some attention at the university as a resource for further research and investigation.

This ten year plan, along with resources within in it, is designed to provide a list of potential guidelines and ideas that can be applied for the arboretum's benefit and growth. The Salve Regina University arboretum is a continually growing and developing part of the greater Newport, Rhode Island community, and will continue to strengthen its mission and that of the university which oversees its success.

## **Mission of Arboretum at Salve Regina University:**

*The Arboretum at Salve Regina was established to preserve the natural and historic resources of the campus landscape and to provide a living learning environment that enhances the educational mission of the University and demonstrates a responsible commitment to stewardship.*

### **Objective:**

Create a ten year plan that will help the Salve Regina University Arboretum reach a Level III accreditation

### **Rationale:**

Following Salve Regina University's mission statement, "that all people are stewards of God's creation," this strategic plan demonstrates moral justice in regard to the environment within the university community. This applies to the care that we are expected to provide to our campus in order to maintain its beauty and support the ability for prosperous ecological stability. Becoming a level three arboretum will enhance biological diversity as well as stewardship on campus. This, in turn, emphasizes the importance of conservation and the preservation of Salve Regina's arboretum through maintenance and sustainability efforts.

Goal	2 Years (2020)	4 Years (2022)	6 Years (2024)	8 Years (2026)	10 Years (2028)	✓
Arboretum Plan						✓
Organizational or Governance Group						✓
500+ Labeled Trees/Woody Plant Species	Plant 80 tree/shrub species	Plant 80 tree/shrub species	Plant 80 tree/shrub species	Plant 80 tree/shrub species	Plant 80 tree/shrub species	
Staff or Volunteer Support <ul style="list-style-type: none"> <li>• Paid Management</li> <li>• Curator</li> </ul>			Hire a curator			
Public Dimension <ul style="list-style-type: none"> <li>• Public access &amp; at least one event per year</li> <li>• Enhanced public &amp; educational programs</li> <li>• Substantial educational programming</li> </ul>	Start a winter tree identification project. Work with one elementary school to implement the arboretum project, where children will be able to learn how plants and trees grow through hands on activities. Integrate a tree identification project into Monday morning announcements of a local high	Work with Newport Library to start an urban garden seminar series. Work with one middle school to implement a program to help younger children from the elementary schools with tree ID workshops. Have Admissions mention the arboretum during tours and open house days.	Start spring bird walks around campus/Newport area. Implement our project into another elementary school. Create a volunteer/outreach program with the local high schools, for college students to create events or workshops on conservation biology and tree science. Implement a “Dorm Tree” mascot to each residence hall.	Implement our project into another middle school. Partner with Rogers High School to create extracurricular clubs or courses for the students, run by students and faculty from Salve Regina University. Work to expand the Salve Regina University curriculum to include more tree science topics. Add a “Tree of the Month” segment to	Create an Arbor Day/Week where the schools we have been working with can join the university for tree plantings, and other arboretum based activities. Implement Tree Tour brochures in the Admissions and Alumni Offices on campus.	

	school. Create a "Salve Trees" Instagram page.			Salve Today.		
Participation in ArbNet						✓
Collections Policy						✓
Collaboration with other Arboreta		Establish an official collaboration with the Newport Tree Society.		Establish a collaboration with the Connecticut College Arboretum.	Establish a collaboration with the Arboretum at Martha's Vineyard.	
Collections data sharing with networked collections		Connect with the NACPEC database.	Connect with the Seeds of Success collections database.		Connect with the Botanical Society of America networked database.	
Agenda for tree science, planting, & conservation	Continue Dr. Reid's research.	Continue Dr. Reid's research / expand the project.	Pull more undergraduate students into research with our campus trees.	Expand research to species other than Beeches.	Continue the research currently being done, and plan for future research.	

\* Gray boxes are things that are required for Level II, and should just be continued

# Conservation

Collaborators: Makayla B. Cormier '18, Luke A. Gagnon '18, Kunsang C. Lama '21, Shannon A. Miller '18, and Nicholas J. Sousa '19

The importance of conservational efforts to be further recognized amongst the Salve Regina community will only enhance the stewardship and advocating for land preservation and species preservation. The size of the human population is exponentially increasing, passing 7 billion people, and its most fundamental connotation with conservation is that people compete with other animals, which unlike green plants, are unable to make their own food. Most conservation biologists view the task of the preservation of biodiversity to be considered circumstantially ethical<sup>7</sup>. However, extensive experience has shown that arguments based on a proposed ethical necessity in order to preserve our only known living relatives in the entire universe, the result of evolutionary sequences over billions of years, have predominantly fallen on deaf ears. Making biodiversity conservation relevant to most of the world requires bridging this gap, with an emphasis on sustainability, equity and a diversity of approaches<sup>8</sup>.

As a Catholic institution of higher education, Salve Regina University has an opportunity and obligation to promote and reinforce environmental stewardship. Salve Regina University has pledged to conduct its activities in an ecologically sound, socially just and economically viable manner, and will continue to do so for future generations. The University supports the concepts of sustainability in its curriculum, research and related activities, preparing students, faculty and staff to contribute to an environmentally sound and socially just society. The main goal for Salve Regina's campus is to become a more environmentally literate and responsible community, while also practicing environmental

stewardship. In becoming a level III arboretum, the University would benefit from having a more diverse collection of species and could further demonstrate its moral justice in promoting and committing to a sustainable community. Salve Regina University encourages its students to “work for a world that is just and merciful,”<sup>14</sup> and taking part in this project demonstrates these principles.

Researching the species of trees and shrubs that are being considered for installation to our arboretum is crucial to the survival of the species, as well as the species that currently occupy the space. The conditions of the soil such as, pH, soil content, and drainage need to be accounted for. In addition, the installation of invasive species could lead to a detrimental outcome for neighboring trees and shrubs. The University of Rhode Island has developed a helpful Rhode Island Native Plant Guide that assists in obtaining baseline information on various species of plants<sup>21</sup>. This guide can be employed throughout the ten year plan to ensure the conservation value of managing invasive species is taken out of the equation, and each new species is suitable for the arboretum.

In order to uphold the Salve Regina University Mission and maintain the conservational efforts being strived towards, the university must practice responsible use and protection of the campus through sustainable practices. Water use and use of other resources should be done in an efficient way to minimize waste. Any chemical or pesticide use should be limited and highly monitored for negative effects of the surrounding species. Most importantly, it is critical that we encourage students to become more involved with our campus arboretum. Through internships, clubs, and community service hours we can push Salve Regina University to be a more environmentally conscious community.



# **Tree Inventory and Selection**

Collaborators: Madisen G. Archibald '19, Micaela M. Griffin '19, and McKenzie R. Wood '19

The goal for the Salve Regina University arboretum is to gain level III arboretum status by 2028. One of the main requirements to achieve this goal is to obtain 500 different tree or woody species on the campus. As members of the Tree Inventory and Selection group, first we compiled an inventory of the species already present on campus. As of 2014, there were 113 different species represented on campus (See Appendices 1 and 2). Since then, there have been at least twenty additional species added. It was then our job to determine 400 species that would grow well on campus and would increase the species diversity represented in the arboretum. To do this, we consulted the Newport Arboretum list of species, which was advantageous because these species have already been able to survive in the Aquidneck Island climate. Using this list, we were able to determine the benefits to campus and conservation, the growing requirements for the species, an approximate cost and potential nurseries where we could obtain the plant, as well as maintenance information. This information was vital in order to have a solid understanding about what would be necessary to obtain and maintain the species that we hope to add to reach level III status.

By compiling a list of 400 species (Appendix 3), with the benefits, total cost, and nurseries where they could be obtained, we were able to provide the university with the majority of the information that they would need when looking to purchase these species and continue the expansion of the arboretum at Salve Regina University.

Expanding the arboretum at Salve Regina University is important for the idea of stewardship mentioned in the mission of the university. As “stewards of God’s creation” it

is our responsibility to educate the Salve Regina University students and the surrounding community about the importance of an expansive arboretum and promote the integration of nature into the campus community. By adding more diversity into our arboretum, we are able to provide the knowledge, awareness, and beauty of native and exotic plants into our campus community. Additionally, through this plan, we are able to replace dead and dying trees, as well as integrate programs to help threatened and endangered populations expand.

The overall timeline for this entire project is projected to be approximately ten years. By the year 2028, we hope to be able to add about 400 new species of trees and woody plants and apply labels to the new and existing plants. To achieve this goal, about forty new species must be added per year at a minimum. Ideally, each year this would consist of a mix of small, woody plants, shrubs and full-size trees.

# Special Collections

Collaborators: Colin MacLeod '20, Amanda Munoz '21, Alejandro C. Rojas '21,  
Ryan Senecal '19, and Karolyne Stimpson '19

The Special Collections committee aims to increase the biodiversity of our campus-wide arboretum by incorporating unique tree and plant species that would further enhance the individuality and genetic diversity of our arboretum. A special collection is defined by several characteristics. Some of these include being the only arboretum to possess a certain species of tree or plant and/or being the only arboretum to have all of the cultivars of a specific species. Extensive research is necessary to ensure that the species that are chosen will be able to successfully survive. A major component of the Salve Regina University Arboretum Mission is stewardship, the job of maintaining and preserving species biodiversity within the arboretum. The idea of stewardship was implemented into every aspect of our work throughout the semester.

Our committee's contribution to achieving a Level III status arboretum begins with first identifying various tree and plant species that are lacking on Salve Regina University's campus. After consistent conversation with the Tree Inventory committee, we were able to identify species that were already present on our campus (See Appendices 1 & 2). This was a crucial step as it aided us in our selection of prospective new species based upon species that were already present. By identifying already present species, we were able to pinpoint what types of species would best succeed in our local climate as well as coincide with Salve Regina's rich, historic atmosphere. Ultimately, our goal is to incorporate new species onto campus that would work toward achieving the 500+ tree species needed for Level III accreditation.

Our next step was to identify tree and plant species that once resided on our campus but no longer present due to various reasons, most importantly invasive species. For example, the American Chestnut (*Castanea dentata*) once dominated New England and offered several beneficial aspects, including serving as a primary food source for wild animals<sup>20</sup>. Recently there has been a major push to re-establish the American Chestnut back into the wild after the lethal chestnut blight fungus swept through and invaded their populations<sup>20</sup>. Invasive species is one of the leading causes of species destruction<sup>16</sup>. Therefore, it is essential that these invaders are identified so that we may select species that do not succumb to them; ensuring the survival of the chosen species.

One of our final steps was to research what species were present in surrounding arboreta, such as Blithewold in Bristol, Rhode Island and the University of Rhode Island Botanical Gardens. It was important not only to identify the unique tree and plant species in our area, but also the species that were not as successful in this environment. This lack of success could have come from invasive species, environmental conditions, and much more. By understanding our area in more depth, and the challenges that came with it, we were able to gauge the success we would have expanding our arboretum.

Based on the information we obtained, we recommend implementing at least one of three different special collections:

*New England Collection:* The first being a teaching collection. With this we would bring different tree species in from around New England, focusing on the vast biodiversity that the area has to offer. New England has many different biomes, including temperate broadleaf forests and boreal forests. Expanding our biodiversity in this way would allow for a variety of educational opportunities. Students here at Salve Regina, as well as students

from local lower level schools, would be able to experience the biodiversity that New England has to offer, without having to travel far to do it. There are 6 major forest biomes in New England-- we could easily cultivate teaching collections of major trees and shrubs from each.

*Beech Collection:* Another collection we suggest is Beech (*Fagus*) cultivars. The Beech trees in our area have been struggling, and many have been dying. With this collection we would work towards bringing this important species back to our campus. The ultimate goal would be to have all species of the European Beech trees on Salve Regina University's campus; at least those that would actively grow here. If this were done, we would be the only location with this set of species. It would be special to Newport, as Beech trees have always been a large part of our community, and it would give us the opportunity to replace older, dying individuals, and spread awareness for the species.

*Rhode Island Rare Species Collection:* While this does not necessarily mean tree species that are rare in general, we would want to focus on tree species that are rare to Newport. We suggest a special focus on nut trees, specifically the American Chestnut. Salve Regina University lacks nut trees of all species and bringing them to our campus would not only increase the biodiversity but would also provide food resources to local species. The American Chestnut used to be a prominent species here in Rhode Island until the Chestnut blight. By incorporating these into the area we would help preserve the richness of Newport's history. The American Elm (*Ulmus americana*) is a North American native species that is known to be very hardy and is able to withstand very low temperatures. It is known to exhibit beautiful flowers that are usually small and purple-brown. This would add to the growing color pallet of our Arborteum at Salve Regina University. The American

Elm is most commonly affected by the Dutch elm disease, a disease spread by the invasive elm bark beetle. One more example is the Dogwood (*Cornus sanguinea*). It is part of the woody plant family and is often distinguished by their blossoms, berries, and characteristic bark. The wood is often used for cutting boards and other fine wooden pieces as it is very fine grained and highly sought after.

## **Formal Education**

Collaborators: Meghan Beals '18, Mackenzie Begley '18, Meagan Clickner '18,  
Dana Johnson '18, and Sabrina Vieira '19

Substantial education programming is one of the requirements to reach Level III Arboretum status. As such, both formal and informal education strategies will contribute to providing a “living learning environment”<sup>15</sup> on campus, as well as raising arboretum awareness in classrooms throughout Aquidneck Island. The formal education committee wished to provide multiple opportunities to encourage students all over Aquidneck Island to take part in their community, as well as for Salve Regina University students to uphold the university mission by acting as “stewards of God’s creation”<sup>15</sup>. This can be accomplished by incorporating education programs into elementary, middle, and high schools, as well as reintroducing them into Salve Regina University’s curriculum.

### **Newport Public Schools, K-12**

Throughout the allotted 10 year plan, arboretum projects will be implemented into the local public elementary schools, Claiborne Pell Elementary School, and two local public middle schools, Frank E. Thomson and J. H. Gaudet Middle Schools, and Rogers High School.

For kindergarteners, a possible curriculum would include lessons on the life cycle of plants, which can be taught through a hands-on activity. The students could plant and maintain a garden throughout the year to understand how plants grow and how seasons affect them. This is also the stage in which different types of trees may be introduced. First graders could take a more advanced route by planting vegetables and learning how to identify different tree species through simplistic tree identification workshops. Second and third grade classes would also participate in tree identification workshops and begin to

investigate the trees that would thrive in Rhode Island's climate. This is a great way to introduce children to our arboretum concepts and goals. With a concrete knowledge of arboretum concepts, fourth and fifth grade classes will be ready to identify trees suitable for the Salve Regina University campus, as well as help plant them.

Sixth grade students could help teach environmental concepts to the younger students, help plant trees, and organize the tree identification workshops for the younger students. Older students, such as seventh and eighth graders, could implement an arboretum club in their schools to help plant and tag trees at Salve Regina University. These programs could also be implemented into private schools such as St. Michael's and St. George's, as well as home school sectors.

Another goal is to further Salve Regina University's educational connection and relationship with Rogers High School. Currently, the Newport Tree Society has implemented a greenhouse at the high school for students to learn from and care for. The greenhouse is home to many different tree species which will be used to nurse and grow the arboretums in Newport. A stronger connection must be established between Salve Regina University and Rogers High School in order to implement a more substantial education program regarding the trees they have and their connection to the arboretum at Salve Regina. For high school students, it is important to implement arboretum education in a fun and informative way; as a contest, for example. A tree identification contest could be added as a part of the Monday and Friday announcements. On Monday, four facts about a specific tree species will be announced; average height, type of tree, location it can be found, and unique identifying features. With these given facts, students will search for the correct tree, with acceptable answers being the common name or scientific name and



submit their answers through a text poll. The first person to submit the correct answer will win a small prize, such as a \$5.00 gift card to Dunkin Donuts or a homework pass. Both the winners and the correct answer to the tree identification will be revealed during the Friday morning announcements. Each week will feature a different tree species. For example, on Monday the following facts would be given: This tree is typically 50' to 60' tall and can grow up to 50' wide; this tree is deciduous; his tree thrives in moist, well drained, acidic soil; and this tree is very wide, has branches that normally touch the ground, and has leaves throughout the winter. On Friday, the correct answer will be announced as the European beech tree (*Fagus sylvatica*), and winners will be awarded their prizes. Some other trees that would be ideal for this contest include Black Gum trees (*Nyssa sylvatica*), Japanese Cherry Blossom trees (*Prunus serrulate*), and Spruce Pine trees (*Pinus glabra*). The expectation of this contest is to encourage young adults to research and learn more about trees on their own.

Outside of the school day, high school students could still participate in arboretum education through extracurricular activities. A partnership with Salve Regina University can be achieved through volunteer opportunities planting and tagging new species on campus. If Rogers High school also implements extracurricular courses or clubs geared towards environmental education students could expand their awareness of current arboretum concepts, conservation methods, and sustainable practices, as well as gain valuable insight on future career paths. Students could benefit from this project by finding new avenues of study they never considered before, or the development of a hobby or career path.

Once these curriculums are implemented and reviewed, the schools can create an Arboretum day in which the children of Newport and their families will be able to engage in Community Service projects within Newport's many arboretums, specifically Salve Regina University's campus arboretum. Engaging the community in service through volunteer plantings and participation in other arboretum projects will help Salve Regina University reach level III status faster. This involvement from younger generations will also encourage awareness of the importance of trees within the Newport community and promote a sustainable future.

### **Salve Regina University**

For Salve itself, formal education programs are necessary for not only building and expanding our arboretum to reach level III status, but for general awareness and appreciation for the arboretum. Salve Regina University currently offers multiple courses that are designed to bring environmental awareness to students and utilize the arboretum in their curriculum; others have the potential to utilize the arboretum. Ecology, Conservation Biology, Botany, and The Living Lab can be included in this group. Expanding the curriculum of current courses offered to include teaching and interacting with the arboretum is a step that we must take in order to earn a level III status. As part of the 10 year plan, new classes could be integrated into Salve Regina University's course catalog to ensure the substantial education programming requirement is met. Courses such as Environmental Education, Floristics, Ornamental Horticulture, and Biotic Diversity have been successful as hands on learning courses at other college campuses with arboreta<sup>2,4,18</sup>. Students will be encouraged to study species management, learn taxonomy, horticulture, and conservation using the arboretum as a real-life lab. Another opportunity for spreading

arboretum education is through the First Year Transitions (F.Y.T.) course. This course is designed to introduce first year students to Salve Regina and college life in general. For this course, each class could go through a phone guided tree identification walking tour throughout campus. This would teach them about the trees as well as familiarize them with the campus. Students from classes such as Conservation Biology or Ecology could serve as guest speakers and give presentations on Salve's arboretum. This would give students an idea of what classes are offered at Salve and allow them to connect with upperclassmen. Lastly, the F.Y.T. classes could choose a tree to plant, using the data and research collected for this project. Directly planting the trees creates a sense of pride and ownership of having contributed to the campus' beauty, while also adding to the biodiversity and helping to work towards level III status. Implementing these future courses, and improving the current ones, will encourage students to get involved with the arboretum and truly appreciate and understand its importance to our school and our community.

## **Informal Education**

Collaborators: Erin Donovan '19, Jennifer O'Connell '19, Erin O'Neill '19, and Delaney Smith '19

Substantial education programming, one of the criteria for a level III arboretum, can be achieved through informal educational methods. Currently, the Informal Education committee is working on creating an Instagram page for the campus arboretum to display the unique variety of species found here. This is a fun way to get generations of college students interested and involved. The page would feature campus trees, along with facts about them. Students and community members would be encouraged to take pictures with trees on campus and tag themselves to the page. This will bring awareness to the arboretum and get people involved by allowing the community to directly interact with the trees around campus as well as lead to more tree donations for the arboretum. This Instagram page could potentially be up and running by the end of Fall 2018, but Salve Regina University's Information Technology Department must first approve the page. IT is in charge of running all the Salve Regina University affiliated social media accounts and must have access to the usernames and passwords. A faculty would also be in charge of running the account and appointing an intern or work study student to update the page.

There is also potential for the arboretum to be incorporated into preexisting campus events like Admissions tours. Adding information about historically significant and physically aesthetic trees to the campus tours will educate potential students about the importance of the campus arboretum and Salve Regina's commitment to the environment. This can be achieved through communication with Salve Regina University's Admissions Department and the Arboretum Board. Kathryn Wright is the staff member associated with

Salve Regina University's Ambassador Program and is responsible for the planning and implementation of campus tours. Kathryn has already voiced her interest in participating in this initiative, believing it will be easy to incorporate the information into the tours as there are many trees along the current tour route that are asked about. These trees would be identified, such as the Weeping beech in front of Wakehurst, and the arboretum would provide information to be shared with visitors. One possible introduction to the campus arboretum is as follows:

“The Salve Regina University campus is home to 1,200 trees of over 100 diverse species. This collection of exotic trees is the Arboretum at Salve Regina and has been deemed a Level II arboretum. Some of the species, such as the European Beech, are as historical as the Breakers and have become a breathtaking part of Newport. The University is committed to maintaining and preserving the beauty of this arboretum, and aims to expand the species diversity in the efforts to be recognized as a Level III arboretum. We encourage the community to take advantage of the online tree inventory available on the Salve Regina University website, and to experience the natural beauty that surrounds us by participating in the online walking tour”.

Having these trees displayed as prominent features of the campus will show how much Salve Regina University cares about the diversity of life. Adding the trees to the tours showcases Salve Regina's commitment to the welfare of the environment and solidifies our belief in the mission. By having the University support the education of the public through the promotion of the Arboretum and its benefits, we can elevate our standing to a Level III

Arboretum while simultaneously promoting the beauty of the environment.

Another goal is to incorporate the arboretum into the students' everyday lives through the Office of Residence Life. Each on campus dorm would adopt a dorm tree mascot that they would ultimately be responsible for the care of. Resident advisors are already required to plan and implement multiple programs for their residents throughout the semester. Programs involving the history of, management of, and care for the tree mascot could contribute to their program requirements. As the years progress, these tree mascots would become an icon or landmark for the residence halls. The Office of Residence Life has already been contacted about this plan, and are open to meeting with a representative to further discuss a formal proposal. If accepted, the highlights and importance of the tree mascot program would be incorporated into the summer and winter Resident Advisors training sessions so they could effectively facilitate this initiative. Some possible tree mascots for the dorms can be found in Appendix 4. The tree mascot program promotes further comprehension of Salve Regina's arboretum and biological diversity. It provides an opportunity for the public to become more aware of their natural surroundings and gain a deeper understanding of conservation biology, while helping to preserve the natural and historic resources of the campus landscape. Moreover, it provides a living-learning environment that enhances the mission of the university and allows the campus community to become better stewards of the environment.

Finally, a Tree of the Month segment could be added to the Salve Today school page located online. This segment would feature one tree each month and explain the history and journey it has made to get here, on our campus. This type of informal education targets current and future students, faculty, and staff to spread the knowledge of Salve Regina's

arboretum. It would support the Salve Regina Arboretum mission by making the community aware of our duty to preserve and protect the environment for the Newport community and future generations. Salve Today draws a lot of attention from the community as well as from other universities. By creating this segment, we can educate other arboretums about Salve Regina University's current arboretum status and encourage them to expand their own. The Informal Education committee has already reached out to faculty in the public relations office to understand the requirements for achieving this goal. Taking these initial steps will help accomplish the Salve Regina University arboretum mission statement, as well as the Salve Regina mission statement by creating a world that is just and harmonious.

## Research

Collaborators: Paige Dostie '19, Megan A. Moschetti '19, and Emily A. Riley '18

In order to reach level three status, one of the criteria is to share plant collections data with networked collections databases. There are many databases that would be helpful to the arboretum here at Salve Regina University, but a few stand out as especially prominent. As there are many foreign Asian plants on the Salve Regina Campus, it may be productive to interact with the North America-China Plant Exploration Consortium (NACPEC).<sup>13</sup> The purpose of this group is to increase the conservation of Asian plants, specifically those from China, in North America. They consider relations between temperate zones of China and areas of the North American climate, and then transfer plants where they would be able to grow in the most ideal conditions. In addition to NACPEC, organizations that could also assist the Salve Regina Arboretum are Seeds of Success, the Botanical Society of America, and the European Seed Conservation Network. All of these are incredible networks that could help propel the arboretum on our campus to the next level.

In addition to joining a networking database, the arboretum must also collaborate with other accredited arboreta. There are many accredited arboreta in our area that would be beneficial for Salve Regina University to work with. The campus arboretum already works closely with the Newport Arboretum, and we hope to continue this collaboration. In addition, there are larger arboreta such as Connecticut College which is a level III and the level IV Polly Hill Arboretum on Martha's Vineyard. The organisms and plants that are housed specifically at Connecticut College are excellent examples of rare and foreign species that should be considered when adding to the Salve Regina Campus.<sup>4</sup> More



importantly, the characteristics of the Northeast temperate climate that Connecticut College and Salve Regina University share would allow the Salve Regina Arboreta to predict the success of new plants added to our campus.

After researching the Connecticut College Arboretum, it is clear that Salve Regina University has the potential to incorporate many prominent tree species onto its campus, as well as model programs that would involve the student body on a greater scale. To increase awareness on campus, it is necessary to establish workshops that would be attended by members of the campus community, as well as citizens of the greater Newport area. These programs would include winter tree identifying workshops, urban gardening series at the Newport Public Library, Spring Bird Walks, Growing Plants from Seeds, and Learning from Wild Landscapes. All of these programs, in addition to bulletins, annual arboretum report, and classes offered in the Salve Regina Hydroponics lab or greenhouse has the potential to substantially increase the interest of the Salve Regina Arboretum. These types of initiatives have proven successful at Connecticut College and has the force to propel Salve to a Level III Arboretum.

As the ten-year plan includes the increase in the amount of chestnut and conifer trees on campus, some helpful resources for tree planting are the American Chestnut Foundation (TACF) and the American Conifer Society. The TACF focuses specifically on breeding chestnut species that are resistant to different blights, and also to reintroducing different types of large chestnuts to the Eastern United States. The purpose of the American Conifer Society is to promote conifers not only as a landscape enhancer, but as modes for conservation education for the general public. In addition, the Plant Connections Network is a world-wide network that would enable Salve to access preserved plant germplasm that

could be used to conduct taxonomic studies, breeding, and other research. This organization has the potential to assist in furthering conservation research for undergraduates at Salve Regina, while also continuing the development of experiments previously conducted by Dr. Anne Reid.

There is currently research being performed by Dr. Anne Reid and her team of undergraduates, who focus on the soil composition of European Beech trees in healthy and ailing conditions. Her current project has been given the name “Metagenomic Analysis of the European Beech Tree Rhizosphere: The Search for Biological Markers of Tree Health”. The project aims to ascertain the presence of biological markers for tree health in the bacterial rhizosphere microbiome of the European Beech. Previous methods identified and characterized the bacterial rhizospheric community of two healthy and two ailing beech trees using a series of polymerase chain reactions (PCR) and Next Generation sequencing techniques on a MiSeq system. These methods were employed to compare beech rhizosphere compositions of healthy and ailing trees to determine the nature of any microbial differences between the conditions. Present microbial differences can be identified as biological markers of tree health. If the composition of the rhizosphere microbiome of European Beech trees has an effect on tree health, then taxonomic differences will be observed between healthy and ailing beech trees. The identification of taxonomic differences and potential biomarkers for tree health allows for the exploration of alterations and manipulations of the root microbiome of ailing trees in order to positively influence plant health.

This type of research is essential for the arboretum as it encourages creative investigation of current and relevant issues in plant health. It sparks a problem-solving

mentality and evokes a sense of control and responsibility for the trees in the arboretum. Dr. Reid intends to continue this research as long as it is relevant and will recruit undergraduate students from her microbiology class next year to take a degree of ownership of the project. Dr. Reid has expressed interest in expanding her study to further analyze the European Beech microbiome. Potential new research methods include: DNA extraction from endosphere and bulk soil, soil pH and salinity testing of different environments (including a variation in distance from the ocean), and the identification of present fungi in healthy and ailing Beech trees. Dr. Reid would like to further study trees in the Salve Regina University arboretum in entirely new projects as long as resources allow. This research is essential to taking Salve Regina University's Arboretum to a level three, by increasing the tree science being done on our campus.

## **Acknowledgements**

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## Appendix 1. Salve Regina University Arboretum Inventory

Genus	Species	Common Name	Additional Taxonomy	Count
<i>Abies</i>	<i>balsamea</i>	Fir-Balsam		1
	<i>concolor</i>	Fir-White		1
	<i>grandis</i>	Fir-Grand		1
<i>Acer</i>	<i>japonicum</i>	Maple-Full Moon		3
	<i>palmatum</i>	Maple-Japanese		56
			'Purpurea'	1
	<i>platanoides</i>	Maple-Norway		102
			'Crimson King'	16
	<i>pseudoplatanus</i>	Maple-Sycamore		52
	<i>rubrum</i>	Maple-Red		7
	<i>saccharinum</i>	Maple-Silver		4
	<i>saccharum</i>	Maple-Sugar		6
	<i>x freemanii</i>	Maple-Freeman's		2
<i>Aesculus</i>	<i>hippocastanum</i>	Horsechestnut-Common		20
<i>Amelanchier</i>	<i>arborea</i>	Serviceberry-Downy		6
<i>Betula</i>	<i>alleghaniensis</i>	Birch-Yellow		1
	<i>lenta</i>	Birch-Sweet		2

	<i>nigra</i>	Birch-River	4
	<i>papyrifera</i>	Birch-Paper	4
	<i>pendula</i>	Birch-European White	5
<i>Carpinus</i>	<i>betulus</i>	Hornbeam-European	29
	<i>caroliniana</i>	Hornbeam-American	1
<i>Cedrus</i>	<i>atlantica</i>	Cedar-Atlas	9
		'Glauca Pendula'	2
	<i>libani</i>	Cedar of Lebanon	5
<i>Cercidiphyllum</i>	<i>japonicum</i>	Katsuratree	5
<i>Cercis</i>	<i>canadensis</i>	Redbud-Eastern	1
<i>Chamaecyparis</i>	<i>nootkatensis</i>	Falsecypress-Nootka	45
		'Aurea'	1
	<i>obtusa</i>	Falsecypress-Hinoki	19
	<i>pisifera</i>	Falsecypress-Sawara	68
	<i>thyoides</i>	Falsecypress-Whitecedar	3
		weeping	1
<i>Cornus</i>	<i>controversa</i>	Dogwood-Giant	1
	<i>florida</i>	Dogwood-Flowering	7
	<i>kousa</i>	Dogwood-Kousa	39

	<i>mas</i>	Dogwood-Corneliancherry	6
<i>Crataegus</i>	<i>sp</i>	Hawthorn	8
<i>Cryptomeria</i>	<i>japonica</i>	Cryptomeria-Japanese	11
<i>Cupressus</i>	<i>arizonica</i>	Cypress-Arizona	1
<i>Fagus</i>	<i>grandifolia</i>	Beech-American	3
	<i>sylvatica</i>	Beech-European	173
		'Asplenifolia'	20
		'Cuprea Pendula'	2
		'Cuprea'	18
		'Pendula'	11
		'Purpurea'	17
		Atropunicea	3
<i>Fraxinus</i>	<i>pennsylvanica</i>	Ash-Green	30
<i>Ginkgo</i>	<i>biloba</i>	Ginkgo	20
<i>Gleditsia</i>	<i>triacanthos</i>	Honeylocust-Common	10
<i>Ilex</i>	<i>aquifolium</i>	Holly-English	16
	<i>vomitorea</i>	Holly-Yaupon	10
<i>Juniperus</i>	<i>virginiana</i>	Redcedar-Eastern	7
<i>Laburnum</i>	<i>anagyroides</i>	Laburnum-Common	4



<i>Leitneria</i>	<i>floridana</i>	Corkwood-Florida	1
<i>Liquidambar</i>	<i>styraciflua</i>	Sweetgum	18
<i>Liriodendron</i>	<i>tulipifera</i>	Tuliptree	9
<i>Magnolia</i>	<i>acuminata</i>	Magnolia-Cucumbertree	1
	<i>stellata</i>	Magnolia-Star	2
	<i>x soulangiana</i>	Magnolia-Saucer	14
<i>Malus</i>	<i>floribunda</i>	Crabapple-Japanese Flowering	18
	<i>sylvestris</i>	Crabapple-European	1
<i>Metasequoia</i>	<i>glyptostrobooides</i>	Redwood-Dawn	5
<i>Nyssa</i>	<i>sylvatica</i>	Tupelo-Black	1
<i>Oxydendrum</i>	<i>arboreum</i>	Sourwood	1
<i>Phellodendron</i>	<i>amurense</i>	Corktree-Amur	1
<i>Picea</i>	<i>abies</i>	Spruce-Norway	15
	<i>glauca</i>	Spruce-White	6
		'Conica'	2
	<i>orientalis</i>	Spruce-Oriental	13
	<i>pungens</i>	Spruce-Colorado Blue	13
<i>Pinus</i>	<i>nigra</i>	Pine-Austrian	8
	<i>parviflora</i>	Pine-Japanese White	2

	<i>strobus</i>	Pine-Eastern White	11
<i>Platanus</i>	<i>x acerifolia</i>	Planetree-London	19
<i>Populus</i>	<i>deltoides</i>	Poplar-Eastern	1
<i>Prunus</i>	<i>serotina</i>	Cherry-Black	2
	<i>serrulata</i>	Cherry-Flowering	38
	<i>subhirtella</i>	Cherry-Weeping	1
		var. pendula	1
<i>Pseudotsuga</i>	<i>menziesii</i>	Fir-Douglas	2
<i>Pyrus</i>	<i>calleryana</i>	Pear-Callery	28
<i>Quercus</i>	<i>acutissima</i>	Oak-Sawtooth	16
	<i>cerris</i>	Oak-Turkish	9
	<i>palustris</i>	Oak-Pin	2
	<i>robur</i>	Oak-English	25
	<i>rubra</i>	Oak- Northern Red	1
<i>Salix</i>	<i>alba</i>	Willow-White	4
	<i>matsudana</i>	Willow-Corkscrew	1
<i>Sciadopitys</i>	<i>verticillata</i>	Pine-Umbrella	13
<i>Styrax</i>	<i>japonicus</i>	Snowbell-Japanese	3
<i>Syringa</i>	<i>meyeri</i>	Lilac-Meyer	2

	<i>reticulata</i>	Lilac-Japanese Tree	1
<i>Taxodium</i>	<i>ascendens</i>	Pondcypress	2
<i>Taxus</i>	<i>sp</i>	Yew	54
<i>Thuja</i>	<i>occidentalis</i>	Arborvitae-Eastern	15
	<i>plicata</i>	Western Redcedar	82
<i>Tilia</i>	<i>americana</i>	Linden-American	1
	<i>cordata</i>	Linden-Littleleaf	55
	<i>tomentosa</i>	Linden-Silver	1
<i>Tsuga</i>	<i>canadensis</i>	Hemlock-Canadian	3
<i>Ulmus</i>	<i>americana</i>	Elm-American	1
	<i>parvifolia</i>	Elm-Chinese	44
	<i>procera</i>	Elm-English	1
		weeping	1
	<i>pumila</i>	Elm-Siberian	1
	<i>rubra</i>	Elm-Slippery	20
<i>Viburnum</i>	<i>sp</i>	Viburnum	4
<i>Zelkova</i>	<i>serrata</i>	Zelkova-Japanese	5
<i>x Cupressocyparis</i>	<i>leylandii</i>	Cypress-Leyland	32

**TOTAL: 113 species**

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## Appendix 2. Species represented by only one individual in the Salve Regina University Arboretum

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<i>Abies balsamea</i>	<i>Phellodendron amurense</i>
<i>Abies concolor</i>	<i>Populus deltoides</i>
<i>Abies grandis</i>	<i>Prunus subhirtella</i>
<i>Acer palmatum 'purpurea'</i>	<i>Prunus subhirtella 'pendula'</i>
<i>Betula alleghaniensis</i>	<i>Quercus rubra</i>
<i>Carpinus caroliniana</i>	<i>Salix matsudana</i>
<i>Cercis canadensis</i>	<i>Syringa reticulate</i>
<i>Chamaecyparis nootkatensis 'Aurea'</i>	<i>Tilia Americana</i>
<i>Chamaecyparis thyoides</i>	<i>Tilia tomentosa</i>
<i>Cornus controversa</i>	<i>Ulmus Americana</i>
<i>Cupressus arizonica</i>	<i>Ulmus procera</i>
<i>Leitneria floridana</i>	<i>Ulmus procer</i>
<i>Magnolia acuminata</i>	<i>Ulmus pumi</i>
<i>Malus sylvestris</i>	
<i>Nyssa sylvatica</i>	
<i>Oxydendrum arboreum</i>	

## Appendix 3. List of 400 potential new species to be added to the Salve Regina University Arboretum

Scientific Name	Common Name	Benefit of Species for Arboretum	Benefit of Species from a Conservation Standpoint	Growing Requirements	Cost	Possible Source	Maintenance Requirements	General Information
<i>Acer palmatum</i> var. <i>dissectum</i> 'Red Dragon'	Redleaf Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade	~\$283	Every Bloomin' Thing/ Sylvan Nurseries	Moderate, good supply of water	
<i>Acer palmatum</i> var. <i>dissectum</i> 'Tamukeyama'	Tamukeyama' Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade	~\$104	Amherst Nurseries/ Sylvan Nurseries	Moderate, good supply of water	
<i>Abies firma</i>	Japanese Fir	Looks pretty all year. Very Christmas tree-esq, very heat and wind tolerant. Grows fast so it will reach maturity fairly quickly.	This species appears immune to attack from the balsam woolly adelgid which is a significant problem for some other species of fir	Well drained, moist soil in partial (afternoon) sun	~\$60		Low	Aromatic, exotic, grows about 40-60 feet tall.

<i>Acer capillipes</i>	Snakebark maple	Native to Japan. Easily grown. Cool "snakelike" bark	Attract pollinators and small mammals	Cool, moist, slightly acidic soil. Partial shade	Low	Grows up to 40 feet. Colorful and good fall.
<i>Acer caudatum</i>	Candle-Shaped Maple	Found in the Himalayas.	Attract pollinators and small mammals	Deep, well-drained, acidic soil	Medium	
<i>Acer circinatum</i>	Vine Maple	Some of the best fall colors. Does well underneath taller evergreens	Attract pollinators and small mammals	Full sun. Regular, deep watering	Medium	
<i>Acer grandidentatum</i>	Bigtooth Maple	Slow growing. Good for smaller areas.	Not very abundant here. Native to western united states and northern Mexico	Medium light. Moist soil	Moderate	Blooms in March/April. Same time as daffodils.
<i>Acer grandidentatum</i> 'Hipazam'	Highland Park Maple	Nice foliage. Not too large. Medium growth rate. Red branches= look nice in winter	Attracts insect pollinators	Can handle places where other maples may not be able to grow	Low	

<i>Acer griseum</i>	Paperbark maple	Native to china. On the smaller side	Attracts insect pollinators	Well-drained soil. Full sun	~\$109	Bigelow Nurseries/ Sylvan Nurseries	Moderate, regular watering	Nice red bark that looks good in the winter as well as the summer/spring months
<i>Acer grosseri var. hersii</i>	Hers's Maple	Mid sized.	Attract pollinators and small mammals	Deep, well-drained, acidic soil. Full sun			Low	
<i>Acer heldreichii subsp. trautvetteri</i>	Red bud maple	Yellow flowers. Mid sized.	Attract insect pollinators. Endemic species to Balkan peninsula	Some shade, consistently moist soil. Protected from wind			Moderate	
<i>Acer macrophyllum</i>	Bigleaf Maple	Native to western US. Not abundant in northeast	Provide food for squirrels, chipmunks, birds, etc. can be used for site rehabilitation.	Well-drained, moist soil. Sun or shade			Low	
<i>Acer miyabei</i>	Miyabe Maple	Not currently represented	Attracts birds and insect pollinators	Moist, well drained, acidic soil			Low	
<i>Acer negundo</i>	Boxelder Maple	Native to New England	Attracts birds, insect pollinators and small mammals	Full sun, wet soil			Low	

<b><i>Acer negundo</i></b> <b>'Kelly's Gold'</b>	Kelly's Gold Boxelder Maple	Native to US. Not currently represented	Attracts Browsers, Insect pollinators, Seed-eating birds, Small mammals	Full sun, wet soil			Low
<b><i>Acer negundo</i></b> <b>'Sensation'</b>	Sensation Boxelder Maple	Native to US. Not currently represented	Attracts Browsers, Insect pollinators, Seed-eating birds, Small mammals	Full sun, wet soil			Low
<b><i>Acer nigrum</i></b>	Black Maple	Native to New England	Insect pollinators	Cool moist soils with good drainage			Low
<b><i>Acer palmatum</i></b> <b>'Little Princess'</b>	Little Princess' Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade		Millican Nurseries	Moderate, good supply of water
<b><i>Acer palmatum</i></b> <b>'Sango-kaku'</b>	Sango-Kaku' Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade	~\$140	Every Bloomin' Thing/ Sylvan Nurseries	Moderate, good supply of water
<b><i>Acer palmatum</i></b> <b>'Shishigashira'</b>	Shishigashira' Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade	~\$237	Every Bloomin' Thing/ Sylvan Nurseries	Moderate, good supply of water



<b><i>Acer palmatum</i></b> <b>'Viridis'</b>	Viridis' Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade	~\$104	Millican Nurseries/ Sylvan Nurseries	Moderate, good supply of water
<b><i>Acer palmatum var. dissectum</i></b>	Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade		Weston Nurseries	Moderate, good supply of water
<b><i>Acer palmatum var. dissectum</i></b> <b>'Crimson Queen'</b>	Crimson Queen' Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade	~\$139	Every Bloomin' Thing/ Sylvan Nurseries	Moderate, good supply of water
<b><i>Acer palmatum var. dissectum</i></b> <b>'Dissectum Atropurpureum'</b>	Laceleaf Japanese Maple	Large shrub/small tree. Does well in residential areas	Insect pollinators	Well drained soil and afternoon shade		Weston Nurseries	Moderate, good supply of water
<b><i>Acer pensylvanicum</i></b>	Striped Maple	Native to New England	Insect pollinators	Partial shade. Cool moist well drained soil			Moderate
<b><i>Acer pseudoplatanus</i></b>	Sycamore Maple	Good street/shade trees	Attracts insect pollinators	Full sun. Acidic, well drained soil		Millican Nurseries	Low

<b><i>Acer pseudosieboldianum</i></b>	Korean Maple	Small tree native to Korea. More tolerant than Japanese maple	Insect pollinators	Moist, rich soil good drainage. Partial shade		Every Bloomin' Thing	Low
<b><i>Acer rubrum</i> 'Armstrong'</b>	Freeman Maple	Good shade and wind breaking tree	Insect pollinators	Moist, well drained soil. Full sun		Bigelow Nurseries	Low
<b><i>Acer rubrum</i> 'Bowhall'</b>	Bowhall' Red Maple	Good in residential and park areas	Pollution tolerant species. Attracts Game mammals, Insect pollinators, Small mammals, Songbirds	Full sunlight, average to wet conditions, acidic soils	~\$526	Millican Nurseries/ Sylvan Nurseries	Low, pruning only in summer
<b><i>Acer rubrum</i> 'Frank Jr.'</b>	Frank Jr.' Red Maple	Good in residential and park areas	Pollution tolerant species. Attracts Game mammals, Insect pollinators, Small mammals, Songbirds	Full sunlight, average to wet conditions, acidic soils	~\$413	Sylvan Nurseries	Low, pruning only in summer
<b><i>Acer rubrum</i> 'Franksred'</b>	Red Sunset Maple	Good in residential and park areas	Pollution tolerant species. Attracts Game mammals, Insect pollinators, Small mammals, Songbirds	Full sunlight, average to wet conditions, acidic soils	~\$146	Amherst Nurseries/ Sylvan Nurseries	Low, pruning only in summer

<b><i>Acer rubrum</i> 'JFS-KW78'</b>	Armstrong Gold' Red Maple	Good in residential and park areas	Pollution tolerant species. Attracts Game mammals, Insect pollinators, Small mammals, Songbirds	Full sunlight, average to wet conditions, acidic soils			Low, pruning only in summer
<b><i>Acer rubrum</i> 'New World'</b>	New World' Red Maple	Good in residential and park areas	Pollution tolerant species. Attracts Game mammals, Insect pollinators, Small mammals, Songbirds	Full sunlight, average to wet conditions, acidic soils			Low, pruning only in summer
<b><i>Acer rubrum</i> 'October Glory'</b>	October Glory' Red Maple	Good in residential and park areas	Pollution tolerant species	Full sunlight, average to wet conditions, acidic soils	~298	Amherst Nurseries/ Sylvan Nurseries	Low, pruning only in summer
<b><i>Acer rubrum</i> 'Sun Valley'</b>	Sun Valley' Red Maple	Good in residential and park areas	Pollution tolerant species	Full sunlight, average to wet conditions, acidic soils		Weston Nurseries	Low, pruning only in summer
<b><i>Acer saccharum</i> 'Commemoration'</b>	Commemoration' Sugar Maple	Nice fall colors.	Game birds, mammals, insect pollinators songbirds	Full sunlight, average to wet conditions, acidic soils		Bigelow Nurseries	Low, pruning only in summer
<b><i>Acer saccharum</i> 'Green Mountain'</b>	Green Mountain' Sugar Maple	Nice fall colors.	Game birds, mammals, insect pollinators songbirds	Full sunlight, average to wet conditions, acidic soils	~\$396	Amherst Nurseries/ Sylvan Nurseries	Low, pruning only in summer

<i>Acer saccharum</i> <b>'Hiawatha'</b>	Hiawatha' Sugar Maple	Nice fall colors.	Game birds, mammals, insect pollinators songbirds	Full sunlight, average to wet conditions, acidic soils		Low, pruning only in summer
<i>Acer saccharum</i> <b>'Legacy'</b>	Legacy' Sugar Maple	Nice fall colors.	Game birds, mammals, insect pollinators songbirds	Full sunlight, average to moist conditions, acidic soils	Bigelow Nurseries	Low, pruning only in summer
<i>Acer shirasawanum</i> <b>'Aureum'</b>	Full Moon Maple	Good fall and winter tree.	Insect pollinators	Full sunlight to partial shade, average to moist conditions, rich soils	~\$607 Weston Nurseries/ Sylvan Nurseries	Low, pruning only in summer
<i>Acer shirasawanum</i> <b>'Autumn Moon'</b>	Autumn' Moon Maple	Peaks interest in spring, fall, winter	Pollution tolerant species	Full sunlight to partial shade, average to moist conditions, rich soils	Weston Nurseries	Low, pruning only in summer
<i>Acer spicatum</i>	Mountain Maple	Native RI species	Pollution tolerant species	Full sun to full shade, moist well-drained conditions, acidic soils	Weston Nurseries	Low, pruning only in summer, thick mulch around root zone
<i>Acer truncatum</i>	Shantung Maple	Small. Good in tighter spaces	Attracts insect pollinators	Full sun to full shade, moist well-drained conditions, acidic soils	Every Bloomin' Thing	Low, pruning only in summer

<i>Aesculus glabra</i>	Ohio Buckeye	Good shade tress	Attracts butterflies, migrant birds and small mammals	Full sun to full shade, moist well-drained conditions, acidic soils			Low, messy species
<i>Aesculus hippocastanum 'Baumannii'</i>	Horse chestnut	Good in restricted areas. Spring blossoms, showy flowers	Attracts Browsers, Insect pollinators, Seed-eating birds, Small mammals	Full sun to full shade, moist well-drained conditions, acidic soils		Millican Nurseries	Moderate, messy species
<i>Aesculus parviflora</i>	Bottlebrush Buckeye	Shrub. Native to southeast US	Attract insect pollinators and small mammals	Full sun to full shade, average to moist conditions	~\$48.50	Every Bloomin' Thing/ Sylvan Nurseries	High, pruning late winter, thick mulch around root zone, risk of suckering
<i>Aesculus pavia</i>	Red Buckeye	Small. Good in tighter spaces	Attracts browsers, butterflies, and small mammals.	Full sun to full shade, average to moist conditions. Acidic soil.		Millican Nurseries	Moderate, messy species
<i>Aesculus x carnea 'Briotti'</i>	Red Horse Chestnut	Good shade tree. Medium in size. Flowers in may to add color to the grounds.	Attracts hummingbirds, insect pollinators, and small mammals.	Full sun to partial shade. Acidic soil with good drainage.	~\$469	Bigelow Nurseries/ Sylvan Nurseries	Moderate, messy species

<b><i>Aesculus x carnea</i></b> <b>'Fort McNair'</b>	Fort McNair' Red Horse Chestnut	Good shade tree. Medium in size. Flowers in may to add color to the grounds.	Pollution tolerant species	Full sun to partial shade, average to moist conditions	~\$575	Weston Nurseries/ Sylvan Nurseries	Medium, pruning in late winter	
<b><i>Amelanchier canadensis</i></b>	Canadian Serviceberry	Native to New England	Attracts birds, Pollution tolerant species	Full sun to partial shade, average to wet conditions	~\$27.2 5	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, risk of suckering	
<b><i>Aronia arbutifolia</i></b>	Red Chokeberry	Small shrub	Pollution tolerant species, Attracts birds and butterflies	Full sunlight, dry and wet conditions, salt tolerant		Weston Nurseries	Medium, pruning in late winter, risk of suckering	
<b><i>Asimina triloba</i></b>	PawPaw Tree	Small. Good in tighter spaces	Pollution tolerant species, Attracts birds and small mammals	Full sun to partial shade, average to moist conditions, acidic soils		Millican Nurseries	High, pruning in late winter, risk of suckering	Visible fruits
<b><i>Betula nigra</i></b> <b>'City Slicker'</b>	City Slicker River Birch	Shade tree. Good in restricted spaces	Attracts birds and pollinators	Full sun. Acidic, well drained soil			Moderate, mulching required, avoid pruning in spring	
<b><i>Betula nigra</i></b> <b>'Heritage'</b>	Heritage River Birch	Shade tree. Good in restricted spaces	Pollution tolerant species	Full sun to partial shade, average to wet conditions, acidic soils		Amherst Nurseries	Low, pruning in summer, thick mulch around root zone	

<b><i>Betula populifolia</i></b>	Grey Birch	Native RI species	Attracts birds, insect pollinators and small mammals	Full sun to partial shade, average to wet conditions, acidic soils	~\$15.50	Sylvan Nurseries	Low	
<b><i>Carya cordiformis</i></b>	Bitternut Hickory	Fall colors.	Attracts birds and small mammals	Acidic well drained soils.			Moderate	Special Collection Species
<b><i>Carya ovata</i></b>	Shagbark Hickory	Native RI species	Attracts birds and small mammals	Full sun to partial shade, dry to wet conditions	~\$23	Sylvan Nurseries	Low	
<b><i>Castanea mollissima</i></b>	Chinese chestnut	Genus not currently represented	Underrepresented in NE	Full sun to partial shade, dry to wet conditions			Moderate	Special Collection Species
<b><i>Catalpa bignonioides</i></b>	Southern Catalpa	Genus not currently represented	Attracts insect pollinators	Full sun to partial shade, dry to wet conditions			Low, pruning as needed	
<b><i>Catalpa speciosa</i></b>	Northern Catalpa	Genus not currently represented	Attracts insect pollinators	Full sun to partial shade, dry to wet conditions	~\$205	Amherst Nurseries/ Sylvan Nurseries	Low, pruning as needed	
<b><i>Catalpa x erubescens</i> 'Purpurea'</b>	Purple Catalpa	Underrepresented genus	Attracts insect pollinators	Full sun to partial shade, dry to wet conditions			Low, pruning as needed	
<b><i>Cedrus atlantica</i> 'Fastigiata'</b>	Columnar Blue Atlas Cedar	Underrepresented genus	Attracts insect pollinators	Full sun to partial shade, dry to wet conditions		Every Bloomin' Thing	Low, pruning as needed	

<b><i>Cedrus deodara</i></b>	Deodar Cedar	Genus not currently represented	Attracts insect pollinators	Full sun to partial shade, dry to wet conditions			Low, pruning as needed
<b><i>Celtis occidentalis</i></b>	Hackberry	Native RI species, Genus not currently represented	Attracts birds and small mammals	Full sun to partial shade, dry to wet conditions	~\$405	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Celtis occidentalis</i> <i>'JFS-KSU1'</i></b>	Prairie Sentinel Hackberry	Genus not currently represented	Attracts birds and small mammals	Full sun to partial shade, dry to wet conditions			Low, pruning as needed
<b><i>Cephalotaxus harringtonia</i></b>	Japanese Plum Yew	Genus not currently represented	Attracts birds and small mammals	Full sun to full shade, average to moist conditions			Low, pruning in late winter
<b><i>Cephalotaxus harringtonia</i> <i>'Fastigiata'</i></b>	Upright Japanese Plum Yew	Genus not currently represented	Pollution tolerant	Full sun to full shade, average to moist conditions	~\$67	Weston Nurseries	Low, pruning in late winter
<b><i>Cercidiphyllum japonicum</i> <i>'Heronswood Globe'</i></b>	Heronswood Globe Katsura	Genus not currently represented	Pollution tolerant	Full sunlight, average to moist conditions, rich acidic soils		Weston Nurseries	Low, pruning in late winter
<b><i>Cercidiphyllum japonicum</i> <i>'Pendulum'</i></b>	Weeping Katsura	Genus not currently represented	Pollution tolerant	Full sunlight, average to moist conditions, rich acidic soils	~\$144	Millican Nurseries/ Sylvan Nurseries	Low, pruning in late winter



<b><i>Cercis canadensis</i></b> <b>'Alba'</b>	Eastern White Redbud	Underrepresented genus	Pollution tolerant	Full sun to partial shade, average to moist conditions		Bigelow Nurseries	Low, pruning after flowering
<b><i>Cercis canadensis</i></b> <b>'Forest Pansy'</b>	Forest Pansy Redbud	Underrepresented genus	Pollution tolerant	Full sun to partial shade, average to moist conditions	~\$132	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering
<b><i>Cercis canadensis</i></b> <b>'JN2'</b>	Rising Sun Redbud	Underrepresented genus	Pollution tolerant	Full sun to partial shade, average to moist conditions	~\$388	Weston Nurseries/ Sylvan Nurseries	Low, pruning after flowering, risk of disease
<b><i>Cercis canadensis</i></b> <b>'Ruby Falls'</b>	Ruby Falls Weeping Redbud	Underrepresented genus	Pollution tolerant	Full sun to partial shade, average to moist conditions	~\$218	Weston Nurseries/ Sylvan Nurseries	Low, pruning after flowering, risk of disease
<b><i>Chamaecyparis obtusa</i></b> <b>'Crippsii'</b>	Cripps' Golden Hinoki Cypress	Complements species currently represented (Japanese Maple)	Pollution tolerant, Attracts birds	Full sun to partial shade, average to moist conditions	~\$58	Amherst Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Chamaecyparis obtusa</i></b> <b>'Gracilis'</b>	Slender Hinoki False Cypress	Complements species currently represented (Japanese Maple), Slender tree (doesn't take up a lot of	Pollution tolerant	Full sun to partial shade, average to moist conditions		Every Bloomin' Thing	Low, pruning as needed, thick mulch around root zone

space)

<b><i>Chamaecyparis obtusa 'Nana Gracilis'</i></b>	Dwarf Hinoki Cypress	Slender tree (doesn't take up a lot of space)	Pollution tolerant	Full sun to partial shade, average to moist conditions	~\$52	Millican Nurseries/ Sylvan Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Chamaecyparis pisifera 'Boulevard'</i></b>	Boulevard False Cypress	Slender tree (doesn't take up a lot of space)	Pollution tolerant	Full sun to partial shade, average to moist conditions, acidic soils		Weston Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Chamaecyparis pisifera 'Filifera Aurea'</i></b>	Golden Threadleaf Sawara Cypress	Slender tree (doesn't take up a lot of space)	Pollution tolerant	Full sun to partial shade, average to moist conditions, acidic soils		Millican Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Chionanthus retusus</i></b>	Chinese Fringetree	Genus not currently represented	Attracts birds and small mammals	Full sun to partial shade, dry to wet conditions, rich soils			Low, pruning after flowering
<b><i>Chionanthus virginicus</i></b>	White Fringetree	Genus not currently represented	Pollution tolerant, Attracts birds	Full sun to partial shade, dry to wet conditions, rich soils	~83.50	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering

<b><i>Cladrastis kentukea</i></b>	American Yellowwood	Genus not currently represented	Pollution tolerant, Attracts birds	Full sun to partial shade, dry to wet conditions, rich soils	~\$460	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Clethra barbinervis</i></b>	Japanese Clethra	Genus not currently represented	Pollution tolerant, Attracts birds	Full sun to partial shade, average to wet conditions	~\$36	Millican Nurseries/ Sylvan Nurseries	Medium
<b><i>Cornus 'Rutgan'</i></b>	Stellar Pink Dogwood	Grows well under the canopy of other trees	Attracts birds, Pollution tolerant	Full sun to partial shade, average to moist conditions, rich acidic soil		Millican Nurseries	Low, pruning after flowering
<b><i>Cornus alternifolia</i></b>	Pagoda Dogwood	Smaller shrub/tree. Native to US	Attracts butterflies, birds and small mammals	Full sun to partial shade, moist well-drained conditions, acidic soils	~\$27.25	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning after flowering
<b><i>Cornus controversa 'June Snow-JFS'</i></b>	June Snow Dogwood	Smaller shrub/tree. Native to US	Attracts butterflies, birds and small mammals	Full sun to partial shade, moist well-drained conditions, acidic soils	~\$171	Sylvan Nurseries	Low, pruning after flowering
<b><i>Cornus florida 'Cloud 9'</i></b>	Cloud 9 Dogwood	Smaller shrub/tree. Native to US	Attracts birds	Full sun to partial shade, evenly moist conditions, rich acidic soils		Weston Nurseries	Low, pruning after flowering, risk of insect damage and disease

<b><i>Cornus kousa</i> 'Milky Way'</b>	Milky Way Kousa Dogwood	Smaller shrub/tree. Native to US	Attracts birds, Pollution tolerant	Full sun to partial shade, evenly moist conditions, rich acidic soils		Weston Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Cornus kousa</i> 'National'</b>	National Chinese Dogwood	Smaller shrub/tree. Native to US	Attracts birds, Pollution tolerant	Full sun to partial shade, evenly moist conditions, rich acidic soils		Bigelow Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Cornus kousa</i> 'Samzam'</b>	Samaritan Chinese Dogwood	Smaller shrub/tree. Native to US	Attracts birds, Pollution tolerant	Full sun to partial shade, evenly moist conditions, rich acidic soils	~\$136	Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Cornus kousa</i> 'Summer Fun'</b>	Summer Fun Chinese Dogwood	Smaller shrub/tree. Native to US	Attracts birds, Pollution tolerant	Full sun to partial shade, average to moist conditions, rich acidic soils		Every Bloomin' Thing	Low, pruning after flowering, thick mulch around root zone
<b><i>Cornus mas</i> 'Golden Glory'</b>	Golden Glory Cornelian Cherry Dogwood	Smaller shrub/tree. Native to US	Attracts birds, Pollution tolerant	Full sun to partial shade, dry to wet conditions	~\$134	Millican Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone

<b><i>Cornus pumila</i></b>	Dwarf Dogwood	Smaller shrub/ tree. Native to US	Attracts birds and butterflies	Full sun to partial shade, dry to wet conditions			Low, pruning after flowering, thick mulch around root zone
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<b><i>Corylopsis spicata</i></b>	Spike Winter Hazel	Genus not currently represented	Not overly represented in NE	Full sun to partial shade, dry to wet conditions	~38.50	Bigelow Nurseries/ Sylvan Nurseries	Low
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<b><i>Corylus avellana</i></b>	Common Filbert	Genus not currently represented	Not overly represented in NE	Full sun to partial shade, dry to wet conditions			Low, risk of suckering
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<b><i>Corylus avellana</i> 'Contorta'</b>	Harry Lauder's Walking Stick	Genus not currently represented	Not overly represented in NE	Full sun to partial shade, dry to wet conditions	~\$94	Millican Nurseries/ Sylvan Nurseries	Low, risk of suckering
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<b><i>Corylus colurna</i></b>	Turkish Hazel	Genus not currently represented	Attracts small mammals	Full sun to partial shade, dry to wet conditions		Millican Nurseries	Low, risk of suckering
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<b><i>Cotinus coggygria</i></b>	Smoketree	Genus not currently represented	Pollution tolerant	Full sunlight, dry to moist conditions		Weston Nurseries	Low, pruning in late winter
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<b><i>Cotinus coggygria</i> 'Ancot'</b>	Golden Spirit Smoketree	Genus not currently represented	Pollution tolerant	Full sunlight, dry to moist conditions	~\$43.7 5	Amherst Nurseries/ Sylvan Nurseries	Low, pruning in late winter
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<b><i>Cotinus coggygia</i></b> <b>'Royal Purple'</b>	Royal Purple Smoketree	Genus not currently represented	Pollution tolerant	Full sunlight, dry to moist conditions	~\$46.5 0	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Cotoneaster</i></b> <b><i>dammeri</i></b> <b>'Coral</b> <b>Beauty'</b>	Bearberry Cotoneaster	Genus not currently represented	Pollution tolerant	Full sun to partial shade, dry to moist conditions, rich soils, salt tolerant	~\$26.2 5	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed, risk of insect damage
<b><i>Crataegus crusgalli</i></b> <b>var. <i>inermis</i></b> <b>'Cruzam'</b>	Crusader Thornless Hawthorn	Underrepresen ted genus	Attracts birds	Full sunlight, dry to moist conditions		Millican Nurseries	Low, pruning in late winter
<b><i>Crataegus viridis</i></b>	Green Hawthorn	Underrepresen ted genus	Attracts birds	Full sunlight, dry to moist conditions			Low, pruning in late winter
<b><i>Crataegus viridis</i></b> <b>'Winter King'</b>	Winter King Southern Hawthorn	Underrepresen ted genus	Disease resistant, Pollution tolerant, Attracts birds	Full sunlight, dry to moist conditions	~\$396	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Cryptomeria</i></b> <b><i>japonica</i></b> <b>'Black</b> <b>Dragon'</b>	Black Dragon Japanese Cedar	Underrepresen ted genus	Not overly represented in NE	Full sun to partial shade, average to moist conditions, rich acidic soils, salt tolerant	~\$90.5 0	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed

<b><i>Cryptomeria japonica</i></b> 'Yoshino'	Yoshino Japanese Cedar	Underrepresented genus	Not overly represented in NE	Full sun to partial shade, average to moist conditions, rich acidic soils, salt tolerant	~\$230	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Cupressus arizonica</i></b> 'Blue Ice'	Blue Ice Arizona Cypress	Underrepresented genus	Not overly represented in NE	Full sunlight, dry to wet conditions			Low, pruning as needed
<b><i>Cupressus arizonica</i></b> 'Carolina Sapphire'	Carolina Sapphire Arizona Cypress	Underrepresented genus	Not overly represented in NE	Full sunlight, dry to wet conditions	~\$35	Sylvan Nurseries	Low, pruning as needed
<b><i>Davidia involucrata</i></b>	Dove Tree	Genus not currently represented	Not overly represented in NE	Full sunlight, dry to wet conditions	~\$207	Every Bloomin' Thing/ Sylvan Nurseries	Medium
<b><i>Davidia involucrata</i></b> 'Lady Sunshine'	Lady Sunshine Dove Tree	Genus not currently represented	Not overly represented in NE	Full sunlight, dry to wet conditions			Medium
<b><i>Davidia involucrata</i></b> 'Sonoma'	Sonoma Dove Tree	Genus not currently represented	Not overly represented in NE	Full sunlight, dry to wet conditions	~\$207	Sylvan Nurseries	Medium
<b><i>Diospyros virginiana</i></b>	Persimmon	Genus not currently represented	Attracts birds, insect pollinators and small mammals	Full sun to partial shade, moist well-drained conditions			Low

<i>Emmenopterys henryi</i>	N/A	Genus not currently represented, Rare species	Pollution tolerant	Full sun to partial shade, average to moist conditions, rich acidic soils			Low
<i>Enkianthus campanulatus</i>	Redvein Enkianthus	Genus not currently represented	Pollution tolerant	Full sun to partial shade, average to moist conditions, rich acidic soils	~\$46.25	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering
<i>Eucommia ulmoides</i>	Hardy Rubber Tree	Genus not currently represented	Pollution tolerant	Full sunlight, dry to moist conditions		Weston Nurseries	Low, pruning as needed
<i>Euonymus europaeus</i>	Spindle Tree	Genus not currently represented	Pollution tolerant, Attracts birds	Full sun to partial shade, dry to moist conditions		Weston Nurseries	Low, pruning in late winter, risk of insect damage
<i>Euonymus fortunei</i> 'Emerald Gaiety'	Emerald Gaiety Wintercreeper	Genus not currently represented	Pollution tolerant	Full sun to full shade, dry to moist conditions	~\$28.75	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed
<i>Euonymus japonicus</i> 'Green Spire'	Green Spire Japanese Euonymus	Genus not currently represented	Underrepresented in NE	Full sun to full shade, dry to moist conditions		Bigelow Nurseries	Low, pruning as needed
<i>Euonymus sachalinensis</i>	Sakhalin Euonymus	Genus not currently represented	Underrepresented in NE	Full sun to full shade, dry to moist conditions			Low, pruning as needed



<b><i>Fagus orientalis</i></b>	Oriental Beech	Adds a new species of beech (historical significance in Newport)	Underrepresented in NE	Partial sun, moist well-drained conditions			Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Black Swan'</b>	Black Swan Beech	Adds a new species of beech (historical significance in Newport)	Underrepresented in NE	Partial sun, moist well-drained conditions			Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Cockleshell'</b>	Cockleshell European Beech	Adds a new species of beech (historical significance in Newport)	Underrepresented in NE	Partial sun, moist well-drained conditions			Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Dawyck Gold'</b>	Dawyck Gold Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~\$178	Millican Nurseries/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Dawyck Purple'</b>	Dawyck Purple Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~\$194	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species

<b><i>Fagus sylvatica</i></b> <b>'Fastigiata'</b>	Fastigate Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions		Millican Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Interrupta'</b>	Interrupta European Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions			Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Purple Fountain'</b>	Purple Fountain Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~234	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Purpurea Pendula'</b>	Weeping Purple Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~315	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> <b>'Quercifolia'</b>	Oak Leaved Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions			Low, pruning in late winter	Special Collection Species

<b><i>Fagus sylvatica</i></b> 'Red Obelisk'	Red Obelisk Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~\$202	Millican Nurseries/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> 'Riversii'	Rivers Purple Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~\$202	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> 'Rohanii'	Rohanii European Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions	~\$202	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> 'Rotundifolia'	Roundleaf Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions		Weston Nurseries	Low, pruning in late winter	Special Collection Species
<b><i>Fagus sylvatica</i></b> 'Swat Magret'	Swat Magret Purple Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions			Low, pruning in late winter	Special Collection Species

<i>Fagus sylvatica</i> <b>'Tricolor'</b>	Tricolor European Beech	Adds a new species of beech (historical significance in Newport)	Pollution tolerant	Full sunlight, average to moist conditions		Millican Nurseries	Low, pruning in late winter	Special Collection Species
<i>Ficus carica</i>	Common Fig	Genus not currently represented	underrepresented in NE	full sun to partial shade, moist well-drained conditions			Low, pruning as needed	
<i>Franklinia alatamaha</i>	Franklinia	Rare species	underrepresented in NE	full sunlight, moist well-drained soil, rich acidic soil	~\$56	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, thick mulch around root zone, risk of disease	
<i>Fraxinus americana</i>	White Ash	Native RI species, Underrepresented genus	Attracts birds, insect pollinators and mammals, Threatened species	full sunlight, moist well-drained soil, alkaline soils, salt tolerant			Medium, pruning in late winter, thick mulch around root zone, risk of disease	
<i>Fraxinus excelsior</i>	European Ash	Underrepresented genus	Attracts insect pollinators and birds, Near threatened species	full sunlight, moist well-drained soil			Medium, pruning in late winter, thick mulch around root zone, risk of disease	

<b><i>Fraxinus nigra</i></b>	Black Ash	Native to New England, Underrepresented genus	Attracts birds and insect pollinators, Threatened species	full sunlight, wet conditions, acidic soils	Medium, pruning in late winter, thick mulch around root zone, risk of disease
<b><i>Fraxinus pennsylvanica</i> 'Cimmzam'</b>	Cimmaron Green Ash	Known for autumn foliage, Underrepresented genus	Threatened species	full sunlight, wet conditions, acidic soils	Low, pruning in winter
<b><i>Fraxinus pennsylvanica</i> 'Marshall'</b>	Marshall's Seedless Green Ash	Grows well in buffer strips around parking lots, Underrepresented species	Threatened species	full sunlight, wet conditions, acidic soils	Low, pruning in winter
<b><i>Fraxinus pennsylvanica</i> 'Patmore'</b>	Patmore Green Ash	Grows well in buffer strips around parking lots, Underrepresented species	Threatened species	full sunlight, average to wet conditions	Low, pruning in winter
<b><i>Fraxinus pennsylvanica</i> 'Summit'</b>	Summit Green Ash	Grows well in buffer strips around parking lots, Underrepresented species	Threatened species	full sunlight, average to wet conditions	Low, pruning in winter

<b><i>Ginkgo biloba</i> 'Mariken'</b>	Mariken Dwarf Ginkgo	Underrepresented genus	Pollution tolerant	full sunlight, dry to moist conditions, salt tolerant	~\$111	Millican Nurseries/ Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<b><i>Ginkgo biloba</i> 'Magyar'</b>	Magyar Ginkgo	Underrepresented genus	Pollution tolerant	full sunlight, dry to moist conditions, salt tolerant	~\$599	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<b><i>Ginkgo biloba</i> 'Princeton Sentry'</b>	Princeton Sentry Ginkgo	Underrepresented genus	Pollution tolerant	full sunlight, dry to moist conditions, salt tolerant	~251	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<b><i>Ginkgo biloba</i> 'The President'</b>	Presidential Gold Ginkgo	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions, salt tolerant			Low, pruning in late winter, thick mulch around root zone
<b><i>Gleditsia triacanthos</i> <i>var. inermis</i></b>	Thornless Honeylocust	Underrepresented genus	Attracts birds and small mammals	full sunlight, moist well-drained conditions			Low, pruning as needed
<b><i>Gleditsia triacanthos</i> <i>var. inermis</i> 'Draves'</b>	Street Keeper Thornless Honeylocust	Underrepresented genus	underrepresented in NE	full sunlight, moist well-drained conditions	~\$413	Millican Nurseries/ Sylvan Nurseries	Low, pruning as needed

<b><i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Halka'</b>	Halka Thornless Honeylocust	Underrepresented genus	underrepresented in NE	full sunlight, moist well-drained conditions	~\$413	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'</b>	Shademaster Thornless Honeylocust	Underrepresented genus	underrepresented in NE	full sunlight, moist well-drained conditions	~\$413	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Suncole'</b>	Sunburst Thornless Honeylocust	Underrepresented genus	underrepresented in NE	full sunlight, moist well-drained conditions		Every Bloomin' Thing	Low, pruning as needed
<b><i>Gymnocladus dioicus</i></b>	Kentucky Coffeetree	Genus not currently represented	Pollution tolerant	full sunlight, dry to moist conditions		Millican Nurseries	High, pruning in late winter, messy species,
<b><i>Gymnocladus dioicus</i> 'Espresso-JFS'</b>	Espresso Kentucky Coffeetree	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions		Millican Nurseries	High, pruning in late winter, messy species,
<b><i>Halesia carolina</i></b>	Carolina Silverbell	Genus not currently represented	Attracts insect pollinators and small mammals	full sun to full shade, moist well-drained conditions, acidic soils		Every Bloomin' Thing	Low
<b><i>Halesia diptera</i></b>	Two-wing Silverbell	Genus not currently represented	underrepresented in NE	full sun to full shade, moist well-drained conditions, acidic soils			Low

<b><i>Halesia monticola</i></b>	Mountain Silverbell	Genus not currently represented	underrepresented in NE	full sun to full shade, moist well-drained conditions, acidic soils	~\$155	Sylvan Nurseries	Low
<b><i>Hamamelis vernalis</i></b>	Vernal Witchhazel	Genus not currently represented	Pollution tolerant, Attracts birds	full sun to full shade, average to wet conditions	~\$36	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning after flowering, risk of suckering
<b><i>Hamamelis virginiana</i></b>	Common Witchhazel	Genus not currently represented	Attracts birds and butterflies	full sun to full shade, moist well-drained conditions	~26.25	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning after flowering, risk of suckering
<b><i>Hamamelis x intermedia 'Arnold Promise'</i></b>	Arnold Promise Witchhazel	Genus not currently represented	Pollution tolerant	full sun to full shade, average to wet conditions, acidic soils	~\$95.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning after flowering, risk of suckering
<b><i>Hamamelis x intermedia 'Diane'</i></b>	Diane Witchhazel	Genus not currently represented	Pollution tolerant	full sun to full shade, average to wet conditions, acidic soils	~\$183	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning after flowering, risk of suckering
<b><i>Hamamelis x intermedia 'Pallida'</i></b>	Pallida Witchhazel	Genus not currently represented	underrepresented in NE	full sun to full shade, average to wet conditions, acidic soils	~\$165	Millican Nurseries/ Sylvan Nurseries	Medium, pruning after flowering, risk of suckering



<b><i>Heptacodium miconioides</i></b>	Seven-Son Flower	Genus not currently represented	Attracts butterflies, Pollution tolerant	full sun to partial shade, average to moist conditions	~\$52	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Hibiscus syriacus</i></b>	Rose of Sharon	Genus not currently represented	Attracts butterflies and hummingbirds	full sun to partial shade, moist well-drained soil			Low
<b><i>Hovenia dulcis</i></b>	Japanese Raisin Tree	Genus not currently represented	underrepresented in NE	full sun to partial shade, moist well-drained soil			Low, pruning as needed
<b><i>Idesia polycarpa</i></b>	Wonder Tree	Genus not currently represented	underrepresented in NE	full sun to partial shade, moist well-drained soil			Medium
<b><i>Ilex crenata</i></b>	Japanese Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils, salt tolerant			Low, pruning in late winter, thick mulch around root zone
<b><i>Ilex crenata</i> 'Convexa'</b>	Convex Japanese Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils, salt tolerant			Low, pruning in late winter, thick mulch around root zone

<b><i>Ilex opaca</i></b>	American Holly	Native RI species, Underrepresented genus	Attracts birds, insect pollinators and mammals	full sun to partial shade, moist well-drained conditions, acidic soils, salt tolerant	~\$234 (f); ~\$437 (m)	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<b><i>Ilex verticillata</i></b>	Common Winterberry	Underrepresented genus	Attracts birds	full sun to partial shade, moist to wet conditions, acidic soils		Bigelow Nurseries	Low, pruning in late winter, thick mulch around root zone
<b><i>Ilex x 'Conin'</i></b>	Robin Red Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils, salt tolerant			Low, pruning in late winter, thick mulch around root zone
<b><i>Ilex x 'Conty'</i></b>	Liberty Red Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils, salt tolerant			Low, pruning in late winter, thick mulch around root zone
<b><i>Ilex x 'Lydia Morris'</i></b>	Lydia Morris Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils, salt tolerant			Low, pruning in late winter, thick mulch around root zone

<i>Ilex x merserveae</i>	Meserve Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils			Low, pruning in late winter, thick mulch around root zone
<i>Ilex x merserveae</i> <b>'Blue Maid'</b>	Blue Maid Meserve Holly	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils	~\$41.75	Every Bloomin' Thing/Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<i>Ilex x merserveae</i> <b>'Blue Princess'</b>	Blue Princess Meserve Holly	Underrepresented genus	Attracts birds, Pollution tolerant	full sun to partial shade, moist conditions, rich acidic soils	~\$41.75	Every Bloomin' Thing/Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<i>Jasminum fruticans</i>	Wild Jasmine	Genus not currently represented	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils			Low
<i>Juglans cinerea</i>	Butternut	Native RI species, Genus not currently represented	Attracts birds, insect pollinators and small mammals	full sun to partial shade, moist well-drained conditions, alkaline soils			Medium Special Collection Species

<b><i>Juglans mandshurica</i></b>	Manchurian Walnut	Genus not currently represented	underrepresented in NE, hardy species with short vegetation periods, ornamental in colder temps	full sun to partial shade, moist well-drained conditions, alkaline soils			Medium	Special Collection Species
<b><i>Juglans microcarpa</i></b>	Little Walnut	Genus not currently represented	underrepresented in NE	full sun to partial shade, moist well-drained conditions, alkaline soils			Medium	Special Collection Species
<b><i>Juglans nigra</i></b>	Black Walnut	Genus not currently represented	Attracts birds	full sunlight, moist well-drained conditions, alkaline soils	~\$25.50	Sylvan Nurseries	Medium	Special Collection Species
<b><i>Juglans regia</i></b>	English Walnut	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions, alkaline soils			Medium	Special Collection Species
<b><i>Juniperus c var procumbens 'Nana'</i></b>	Dwarf Japgarden Juniper	Underrepresented genus	Pollution tolerant	full sunlight, dry to moist conditions		Millican Nurseries	Low, pruning in late winter	
<b><i>Juniperus chinensis 'Keteleeri'</i></b>	Keteleeri Juniper	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions	~\$157	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter	

<b><i>Juniperus chinensis</i></b> <b>'Robusta Green'</b>	Robusta Green Juniper	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions	~\$103	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Juniperus horizontalis</i></b>	Trailing Juniper	Underrepresented genus	Attracts birds	full sun to partial shade, dry conditions, salt tolerant			Low, pruning in late winter
<b><i>Juniperus horizontalis</i></b> <b>'Mother Lode'</b>	Mother Lode Creeping Juniper	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry conditions, salt tolerant	~\$26	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Juniperus horizontalis</i></b> <b>'Wiltonii'</b>	Blue Rug Juniper	Underrepresented genus	Pollution tolerant	full sun to partial shade, dry to moist conditions	~\$11.75	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Juniperus recurva</i></b>	Drooping Juniper	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry conditions, salt tolerant			Low, pruning in late winter
<b><i>Juniperus squamata</i></b> <b>'Blue Star'</b>	Blue Star Juniper	Underrepresented genus	Pollution tolerant	full sunlight, dry to moist conditions	~\$14.50	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning in late winter

<b><i>Juniperus virginiana</i></b> <b>'Spartan'</b>	Spartan Juniper	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions		Every Bloomin' Thing	Low, pruning in late winter
<b><i>Juniperus x pfitzeriana</i></b>	Pfitzer Juniper	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions			Low, pruning in late winter
<b><i>Koelreuteria paniculata</i></b> <b>'JFS-Sunleaf'</b>	Sunburst Golden Rain Tree	Genus not currently represented	underrepresented in NE	full sunlight, dry to moist conditions, salt tolerant			Medium, pruning in late winter
<b><i>Kalmia latifolia</i></b>	Mountain Laurel	Genus not currently represented	Pollution tolerant	full sun to full shade, moist well-drained conditions, rich acidic soils	~\$85	Millican Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Koelreuteria paniculata</i></b>	Golden Rain Tree	Genus not currently represented	Pollution tolerant	full sunlight, dry to moist conditions, salt tolerant	~\$858	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Laburnum x watereri</i></b> <b>'Vossi'</b>	Golden Chain Tree	Underrepresented genus	Attracts hummingbirds, Pollution tolerant	full sun to partial shade, average to moist conditions	~\$249	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning after flowering, risk of disease
<b><i>Lagerstroemia fauriei</i></b> <b>'Townhouse'</b>	Townhouse Crapemyrtle	Genus not currently represented	underrepresented in NE	full sun, moist well-drained soil			Low

<i>Lagerstroemia indica</i>	Crapemyrtle	Genus not currently represented	underrepresented in NE	full sun, moist well-drained soil			Low
<i>Lagerstroemia indica 'Natchez'</i>	Natchez Crapemyrtle	Genus not currently represented	underrepresented in NE	full sun, moist well-drained soil	~\$184	Sylvan Nurseries	Low
<i>Larix decidua</i>	European Larch	Genus not currently represented	Attracts birds	full sun, moist well-drained soil		Every Bloomin' Thing	Low
<i>Larix kaempferi</i>	Japanese Larch	Genus not currently represented	Attracts birds	full sun, moist well-drained soil, salt tolerant	~\$304	Every Bloomin' Thing/ Sylvan Nurseries	Low
<i>Ligustrum ovalifolium</i>	California Privet	Genus not currently represented	Pollution tolerant	full sun to partial shade, dry to moist conditions, salt tolerant	~\$33.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning as needed
<i>Lindera benzoin</i>	Spicebush	Genus not currently represented	Pollution tolerant, Attracts birds and butterflies	full sun to full shade, average to moist conditions, rich soils	~\$16.25	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone
<i>Lindera obtusiloba</i>	Japanese Spicebush	Genus not currently represented	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils			Low, pruning after flowering, thick mulch around root zone

<b><i>Liquidambar styraciflua</i> 'Happdell'</b>	Happidaze Sweet Gum	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils			High, pruning in late winter, messy species
<b><i>Liquidambar styraciflua</i> 'Rotundiloba'</b>	Rotundiloba Sweet Gum	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils			High, pruning in late winter, messy species
<b><i>Liquidambar styraciflua</i> 'Silver King'</b>	Silver King Sweet Gum	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils	~\$518	Sylvan Nurseries	High, pruning in late winter, messy species
<b><i>Liquidambar styraciflua</i> 'Slender Silhouette'</b>	Slender Silhouette Sweet Gum	Underrepresented genus	Pollution tolerant	full sunlight, average to moist conditions, rich acidic soils	~\$558	Bigelow Nurseries/ Sylvan Nurseries	High, pruning in late winter, messy species
<b><i>Liquidambar styraciflua</i> 'Variegata'</b>	Variegated Sweet Gum	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils			High, pruning in late winter, messy species
<b><i>Liquidambar styraciflua</i> 'Worplesdon'</b>	Worplesdon Sweet Gum	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils		Bigelow Nurseries	High, pruning in late winter, messy species
<b><i>Liriodendron tulipifera</i> 'Fastigiatum'</b>	Upright Tuliptree	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils		Bigelow Nurseries	Low



<b><i>Liriodendron tulipifera</i></b> 'Glen's Gold'	Golden Tuliptree	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions, rich acidic soils			Low	
<b><i>Metasequoia glyptostroboides</i></b> 'Ogon'	Gold Rush Dawn Redwood	Underrepresented genus	Pollution tolerant	full sunlight, average to wet conditions		Millican Nurseries	Low, pruning in later winter, thick mulch around root zone	
<b><i>Magnolia grandiflora</i></b> 'Bracken Brown Beauty'	Bracken Brown Beauty Magnolia	Underrepresented genus	underrepresented in NE	Slightly acidic soil, full sun or part shade, avoid strong wind	~\$158	Weston Nurseries/ Sylvan Nurseries	medium	
<b><i>Maackia amurensis</i></b>	Amur Maackia	Genus not currently represented	Attracts insect pollinators	full sunlight, moist well-drained conditions	~\$429	Bigelow Nurseries/ Sylvan Nurseries	Low	
<b><i>Magnolia</i></b> 'Elizabeth'	Elizabeth Magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade	~\$32.50	Every Bloomin' Thing/ Sylvan Nurseries	Low	Yellow/white flowers, blooms in April
<b><i>Magnolia</i></b> 'Galaxy'	Galaxy Magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure		Every Bloomin' Thing	Low, pruning after flowering	Pink blossoms, blooms April to June

<b><i>Magnolia 'Jane'</i></b>	Jane Magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	~\$299	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning after flowering	Pink blossoms, more of a shrub than a tree in comparison to other magnolia trees
<b><i>Magnolia 'Susan'</i></b>	Susan Magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	~\$254	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning after flowering	Also more a shrub, pink blossoms
<b><i>Magnolia acuminata 'Butterflies'</i></b>	Butterflies Magnolia	Underrepresented genus	underrepresented in NE	Slightly acidic soil, full sun or part shade, avoid strong wind		Bigelow Nurseries	Low, pruning as needed	Yellow blooms, tree
<b><i>Magnolia denudata</i></b>	Yulan Magnolia	Underrepresented genus	underrepresented in NE	Slightly acidic soil, full sun or part shade, avoid strong wind			medium, same pruning after flowering	white blooms in March
<b><i>Magnolia grandiflora</i></b>	southern magnolia	Underrepresented genus	underrepresented in NE	Slightly acidic soil, full sun or part shade, avoid strong wind			medium	white blooms may to june
<b><i>Magnolia grandiflora 'Edith Bogue'</i></b>	Edith Bogue Magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade			Low	Bloom May to June, white bloom

<b><i>Magnolia stellata</i></b> <b>'Centennial Blush'</b>	Star magnolia with pink blooms	Underrepresented genus	underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	~\$139	Sylvan Nurseries	Low	
<b><i>Magnolia stellata</i></b> <b>'Centennial'</b>	Star magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure		Millican Nurseries	Low	Award winning, dramatic early spring blooms,
<b><i>Magnolia stellata</i></b> <b>'Royal Star'</b>	Star magnolia	Underrepresented genus	underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	~\$106	Amherst Nurseries/ Sylvan Nurseries	Low	
<b><i>Magnolia tripetala</i></b>	umbrella magnolia	Underrepresented genus	Attracts birds, insect pollinators and small mammals	full sun to part shade, moist well-drained conditions		Weston Nurseries	Low, pruning after flowering, thick mulch around root zone	
<b><i>Magnolia virginiana</i></b>	Sweetbay Magnolia	Underrepresented genus	Attracts small mammals	Full sun to part shade, moist to wet conditions, acidic soils	~\$280	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone	

<b><i>Magnolia virginiana</i></b> <b>'Henry Hicks'</b>	Henry Hicks, sweetbay magnolia	Native to North America, Underrepresented genus, does well when planted in urban areas	Attracts wildlife	Full sun to part shade, acidic soil		Low, pruning after flowering, thick mulch around root zone	White blooms June through September, Evergreen tree
<b><i>Magnolia x brooklynensis</i></b> <b>'Yellow Bird'</b>	Yellow Bird Magnolia	Underrepresented genus	Underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	Every Bloomin' Thing	Low, pruning after flowering, thick mulch around root zone	
<b><i>Magnolia x liliiflora</i></b>	Lily Magnolia	Underrepresented genus	Underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure		Low, pruning after flowering, thick mulch around root zone	
<b><i>Magnolia x liliiflora</i></b> <b>'Ann'</b>	Ann Magnolia	Underrepresented genus	Underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	Every Bloomin' Thing	Low, pruning after flowering, thick mulch around root zone	
<b><i>Magnolia x loebneri</i></b> <b>'Ballerina'</b>	Ballerina Magnolia	Underrepresented genus	Underrepresented in NE	Full sun or part shade, slightly acidic soil, avoid strong wind exposure	Every Bloomin' Thing	Low, pruning after flowering, thick mulch around root zone	

<b><i>Magnolia x loebneri</i></b> <b>'Leonard Messel'</b>	Leonard Messel Magnolia	Underrepresented genus	Underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soil	~\$155	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Magnolia x loebneri</i></b> <b>'Merrill'</b>	Merrill Magnolia	Underrepresented genus	Underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soil	~\$155	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Malus</i></b> <b>'Blanche Ames'</b>	Blanche Ames Flowering Crabapple	Underrepresented genus	Underrepresented in NE	full sunlight, moist conditions			Medium, pruning in late winter
<b><i>Malus</i></b> <b>'Donald Wyman'</b>	Donald Wyman Flowering Crabapple	Underrepresented genus	Pollution tolerant	full sunlight, moist conditions	~\$251	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Malus</i></b> <b>'JFS-KW5'</b>	Royal Raindrops Flowering Crabapple	Underrepresented genus	Attracts birds, Pollution tolerant	full sunlight, average to moist conditions	~\$322	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Malus angustifolia</i></b>	Southern Crabapple	Underrepresented genus	underrepresented in NE	full sunlight, moist conditions			Medium, pruning in late winter
<b><i>Malus baccata</i></b>	Siberian Crabapple	Underrepresented genus	underrepresented in NE	full sunlight, moist conditions			Medium, pruning in late winter

<b><i>Malus sargentii</i></b>	Sargent's Flowering Crabapple	Underrepresented genus	Pollution tolerant	full sunlight, average to moist conditions	~\$153	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Malus spectabilis</i></b>	Chinese Flowering Crabapple	Underrepresented genus	underrepresented in NE	full sunlight, moist conditions			Medium, pruning in late winter
<b><i>Malus transitoria</i></b> <b>'Schmidtcutleaf'</b>	Golden Raindrops Crabapple	Underrepresented genus	underrepresented in NE	full sunlight, moist conditions	~\$315	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Malus x moerlandsii</i></b> <b>'Profusion'</b>	Profusion Crabapple	Underrepresented genus	underrepresented in NE	full sunlight, moist conditions		Every Bloomin' Thing	Medium, pruning in late winter
<b><i>Malus x scheideckeri</i></b> <b>'Red Jade'</b>	Red Jade Crabapple	Underrepresented genus	underrepresented in NE	full sunlight, moist conditions		Bigelow Nurseries	Medium, pruning in late winter
<b><i>Malus x zumi var. calocarpa</i></b>	Calocarpa Zumi Flowering Crabapple	Underrepresented genus	Pollution tolerant	full sunlight, average to moist conditions	~\$153	Millican Nurseries/ Sylvan Nurseries	High, pruning in late winter, risk of disease
<b><i>Mespilus germanica</i></b>	Common Medlar	Genus not currently represented	underrepresented in NE	full sunlight, average to wet conditions			Low, pruning in later winter, thick mulch around root zone

<i>Morus alba</i>	White Mulberry	Genus not currently represented	Attracts birds and small mammals	full sun to partial shade, moist well-drained conditions, salt tolerant			Medium
<i>Nyssa sylvatica</i> 'JFS-PN Legacy1'	Gum Drop Black Gum	Underrepresented genus	underrepresented in NE	full sun to partial shade, evenly moist conditions, rich acidic soil			Low, pruning in late winter, thick mulch around root zone
<i>Nyssa sylvatica</i> 'Wildfire'	Wildfire Black Gum	Underrepresented genus	Attracts birds	full sun to partial shade, evenly moist conditions, rich acidic soil	~\$108	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter, thick mulch around root zone
<i>Ostrya carpinifolia</i>	European Hop Hornbeam	Genus not currently represented	underrepresented in NE	full sun to partial shade, moist well-drained conditions, acidic soils			Low
<i>Ostrya virginiana</i>	American Hop Hornbeam	Native RI species, Genus not currently represented	Attracts small mammals and birds	full sun to partial shade, moist well-drained conditions, acidic soils	~\$41	Millican Nurseries/ Sylvan Nurseries	Low
<i>Platanus x acerifolia</i> 'Morton Circle'	Exclamation! London Planetree	Underrepresented genus	Attracts birds, insect pollinators and small mammals	full sunlight, moist well-drained conditions, rich soils, salt tolerant	~\$405	Millican Nurseries/ Sylvan Nurseries	High

<i>Parrotia persica</i>	Ironwood	Genus not currently represented	Pollution tolerant	full sunlight, dry to moist locations		Bigelow Nurseries	Low, pruning in late winter
<i>Parrotia persica</i> 'Pendula'	Persian Ironwood	Genus not currently represented	underrepresented in NE	full sunlight, dry to moist locations			Low, pruning in late winter
<i>Parrotia persica</i> 'Vanessa'	Vanessa Ironwood	Genus not currently represented	underrepresented in NE	full sunlight, dry to moist locations	~\$139	Sylvan Nurseries	Low, pruning in late winter
<i>Paulownia tomentosa</i>	Royal Empress Tree	Genus not currently represented	Attracts hummingbirds, Pollution tolerant	full sun to partial shade, average to moist conditions, salt tolerant		Weston Nurseries	High, pruning after flowering, messy species
<i>Phellodendron amurense</i> 'His Majesty'	His Majesty Cork Tree	Underrepresented genus	Pollution tolerant	full sunlight, dry to wet conditions		Weston Nurseries	Low, pruning in late winter
<i>Phellodendron amurense</i> 'Macho'	Macho Cork Tree	Underrepresented genus	Pollution tolerant	full sunlight, dry to wet conditions		Weston Nurseries	Low, pruning in late winter
<i>Picea orientalis</i> 'Gowdy'	Gowdy Oriental Spruce	attracts birds. exotic	Pollution tolerant	full sunlight, dry to moist conditions	~\$228	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed, thick mulch around root zone in winter
<i>Picea pungens</i> 'Bakeri'	Baker's Colorado Blue Spruce	attracts birds. exotic	underrepresented in NE	full sunlight, dry to moist conditions		Millican Nurseries	Low, pruning as needed



<i>Picea pungens</i> 'Glauca Globosa'	Globe Colorado Blue Spruce	attracts birds. exotic	underrepresented in NE	full sunlight, dry to moist conditions	~\$83.50	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed
<i>Picea pungens</i> 'Hoopsii'	Hoopsii Blue Spruce	attracts birds. exotic	Pollution tolerant	full sunlight, dry to moist conditions, salt tolerant	~\$210	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<i>Picea pungens</i> 'Montgomery'	Montgomery Blue Spruce	attracts birds. exotic	Pollution tolerant	full sun to partial shade, dry to moist conditions	~194	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<i>Picea rubens</i>	Red Spruce	Native to New England	underrepresented in NE	full sun to partial shade, dry to moist conditions			Low, pruning as needed
<i>Pinus bungeana</i>	Lacebark Pine	Underrepresented genus	Pollution tolerant	full sunlight, dry to average conditions	~\$319	Millican Nurseries/ Sylvan Nurseries	Low, pruning as needed
<i>Pinus cembra</i>	Swiss Stone Pine	Underrepresented genus	Attracts small mammals	full sun to partial shade, moist well-drained conditions	~\$215	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<i>Pinus echinata</i>	Shortleaf Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry to moist conditions			Low, pruning as needed

<b><i>Pinus edulis</i></b>	Colorado Pinyon Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry to moist conditions			Low, pruning as needed
<b><i>Pinus heldreichii</i></b>	Bosnian Pine	Underrepresented genus	Pollution tolerant	full sunlight, dry to moist conditions, acidic soils, salt tolerant	~\$101	Weston Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Pinus massoniana</i></b>	Chinese Red Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry to moist conditions			Low, pruning as needed
<b><i>Pinus mugo</i></b>	Mugo Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist well-drained conditions		Bigelow Nurseries	Low, pruning as needed
<b><i>Pinus parviflora</i> 'Glauca'</b>	Blue Japanese Pine	Underrepresented genus	Pollution tolerant	full sunlight, dry to average moisture, salt tolerant	~\$246	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Pinus parviflora</i> 'Kinpo'</b>	Kinpo Japanese White Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry to moist conditions	~\$265	Millican Nurseries/ Sylvan Nurseries	Low, pruning as needed
<b><i>Pinus parviflora</i> 'Tempelhof'</b>	Tempelhof Japanese White Pine	Underrepresented genus	Pollution tolerant	full sunlight, dry to average conditions, salt tolerant		Millican Nurseries	Low, pruning as needed

<b><i>Pinus strobus</i></b> <b>'Horsford'</b>	Horsford White Pine	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions, acidic soils		Every Bloomin' Thing	Medium, pruning as needed, risk of insect damage and disease
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<b><i>Pinus strobus</i></b> <b>'Pendula'</b>	Weeping White Pine	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions, acidic soils	~\$162	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning as needed, risk of insect damage and disease
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<b><i>Pinus strobus</i></b> ( <b><i>Nana Group</i></b> )	Dwarf White Pine	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions, acidic soils	~\$144	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning as needed, risk of insect damage and disease
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<b><i>Pinus sylvestris</i></b>	Scots Pine	Underrepresented genus	Attracts birds, butterflies and small mammals	full sunlight, moist well-drained conditions, acidic soils		Every Bloomin' Thing	Low, pruning as needed
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<b><i>Pinus sylvestris</i></b> <b>'Hillside Creeper'</b>	Hillside Creeper Scots Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, dry to moist conditions	~\$221	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed
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<b><i>Pinus thunbergii</i></b>	Japanese Black Pine	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions	~\$15.75	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning as needed, risk of disease
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<b><i>Pinus thunbergii</i></b> <b>'Thunderhead'</b>	Thunderhead Japanese Black Pine	Underrepresen ted genus	Pollution tolerant	full sunlight, dry to average conditions, salt tolerant	~\$144	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning as needed, risk of disease
<b><i>Pinus wallichiana</i></b>	Himalayan White Pine	Underrepresen ted genus	underrepresented in NE	full sun to partial shade, dry to moist conditions			Medium, pruning as needed, risk of disease
<b><i>Pistacia chinensis</i></b>	Chinese Pistache	Genus not currently represented	underrepresented in NE	full sun to partial shade, dry to moist conditions			Medium, pruning as needed, risk of disease
<b><i>Platanus occidentalis</i></b>	American Sycamore	Native RI species, Underrepresen ted genus	underrepresented in NE	full sunlight, moist well-drained conditions, rich soils, salt tolerant	~\$84	Bigelow Nurseries/ Sylvan Nurseries	High
<b><i>Platanus orientalis</i></b>	Oriental Sycamore	Underrepresen ted genus	underrepresented in NE	full sunlight, moist well-drained conditions, rich soils, salt tolerant			High
<b><i>Platanus x acerifolia</i></b> <b>'Bloodgood'</b>	Bloodgood London Planetree	Underrepresen ted genus	underrepresented in NE	full sunlight, moist well-drained conditions, rich soils, salt tolerant	~\$405	Bigelow Nurseries/ Sylvan Nurseries	High

<b><i>Populus balsamifera</i></b>	Balsam Poplar	Native to New England, Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions			Low
<b><i>Populus canadensis</i></b> <b>'Prairie Sky'</b>	Prairie Sky Poplar	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions			Low
<b><i>Populus simonii</i></b> <b>'Fastigiata'</b>	Fastigate Simon Poplar	Underrepresented genus	underrepresented in NE	full sunlight, average to moist conditions			Low
<b><i>Prunus cerasifera</i></b> <b>'Krauter Vesuvius'</b>	Krauter Vesuvius Plum	native to US	Attracts birds, Pollution tolerant	full sunlight, average to moist conditions		Bigelow Nurseries	Medium, pruning in late winter
<b><i>Prunus cerasifera</i></b> <b>'Newport'</b>	Newport Purple Leaf Plum	native to US	underrepresented in NE	full sunlight, average to moist conditions		Bigelow Nurseries	Medium, pruning in late winter
<b><i>Prunus cerasifera</i></b> <b>'Thundercloud'</b>	Thundercloud Purple Leaf Plum	native to US	underrepresented in NE	full sunlight, average to moist conditions	~\$191	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Prunus laurocerasus</i></b> <b>'Schipkaensis'</b>	Schipka Cherry Laurel	smaller shrub-like	underrepresented in NE	full sunlight, average to moist conditions	~\$84	Sylvan Nurseries	Medium, pruning in late winter

<b><i>Prunus persica</i></b> <b>'Redhaven'</b>	Redhaven Peach	fruit tree	Pollution tolerant	full sunlight, average to moist conditions	~\$63	Weston Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species, risk of insect damage and disease
<b><i>Prunus sargentii</i></b>	Sargent's Cherry	spring bloom. showy flowers. attractive bark	Attracts insect pollinators	full sun to partial shade, moist well-drained conditions	~\$372	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Prunus sargentii</i></b> <b>'Columnaris'</b>	Columnar Sargent's Cherry	spring bloom. showy flowers. attractive bark	underrepresented in NE	full sunlight, average to moist conditions	~\$267	Millican Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Prunus sargentii</i></b> <b>'JFS-KW58'</b>	Pink Flair Sargent's Cherry	Grows well in buffer strips around parking lots	underrepresented in NE	full sun, dry to wet conditions	~\$477	Millican Nurseries/ Sylvan Nurseries	Medium, pruning in late winter
<b><i>Prunus serrulata</i></b> <b>'Kwanzan'</b>	Kwanzan Flowering Cherry	Grows well in buffer strips around parking lots	Pollution tolerant	full sunlight, average to moist conditions, rich soils	~\$215	Amherst Nurseries/ Sylvan Nurseries	High, pruning in late winter
<b><i>Prunus serrulata</i></b> <b>'Shirotae'</b>	Japanese Flowering Cherry	Grows well in buffer strips around parking lots	underrepresented in NE	full sunlight, average to moist conditions, rich soils	~\$335	Sylvan Nurseries	High, pruning in late winter
<b><i>Prunus spinosa</i></b>	Blackthorn	spring blossom. showy fruit	Attracts birds	full sun to partial shade, dry to moist conditions,			Low, pruning in late winter

acidic soils

<b><i>Prunus subhirtella</i></b> <b>'Autumnalis'</b>	Autumnalis Higan Cherry	Grows well in buffer strips around parking lots	Attracts birds, Pollution tolerant	full sunlight, average to moist conditions, rich soils	~\$335	Millican Nurseries/S ylvan Nurseries	Low, pruning in late winter
<b><i>Prunus virginiana</i></b>	Common Chokecherry	Native RI species	Attracts birds and butterflies	full sun to partial shade, dry conditions, alkaline soils			Low, pruning in late winter
<b><i>Prunus x yedoensis</i></b>	Yoshino Cherry	Grows well in buffer strips around parking lots	Attracts birds, Pollution tolerant	full sunlight, average to moist conditions, rich soils	~\$421	Bigelow Nurseries/ Sylvan Nurseries	Medium , pruning in late winter
<b><i>Ptelea trifoliata</i></b>	Hop Tree	Genus not currently represented	Pollution tolerant	full sun to full shade, dry to moist conditions		Weston Nurseries	Low, pruning in late winter
<b><i>Pterocarya fraxinifolia</i></b>	Caucasian Wingnut	Genus not currently represented	underrepresented in NE	full sun to full shade, dry to moist conditions			Low
<b><i>Pyrus calleryana</i></b> <b>'Cleveland Select'</b>	Cleveland Select Flower Pear	Underrepresen ted genus	underrepresented in NE	full sun to full shade, dry to moist conditions	~\$166	Bigelow Nurseries/ Sylvan Nurseries	High, pruning in late winter, messy species, risk of disease

<b><i>Pyrus calleryana</i></b> <b>'Glen's Form'</b>	Chanticleer Flowering Pear	Underrepresented genus	underrepresented in NE	full sun to full shade, dry to moist conditions	~\$380	Sylvan Nurseries	High, pruning in late winter, messy species, risk of disease
<b><i>Pyrus communis</i></b>	European Pear	Underrepresented genus	underrepresented in NE	full sun to full shade, dry to moist conditions			High, pruning in late winter, messy species, risk of disease
<b><i>Pyrus communis</i></b> <b>'Anjou'</b>	Anjou Pear	Underrepresented genus	Pollution tolerant	full sun to full shade, dry to moist conditions	~\$63.50	Every Bloomin' Thing/ Sylvan Nurseries	High, pruning in late winter, messy species, risk of disease
<b><i>Pyrus pashia</i></b>	Himalayan Pear	Underrepresented genus	underrepresented in NE	full sun to full shade, dry to moist conditions			High, pruning in late winter, messy species, risk of disease
<b><i>Quercus palustris</i></b> <b>'PWJR08'</b>	Pacific Brilliance Pin Oak	Grows well in buffer strips around parking lots	underrepresented in NE	full sunlight, average to wet conditions, acidic soils		Bigelow Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus alba</i></b>	White Oak	Native RI species	Attracts small mammals and birds, Pollution tolerant	full sunlight, dry to moist conditions, acidic soils	~\$21.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species



<b><i>Quercus bicolor</i></b>	Swamp White Oak	Native RI species	Attracts small mammals and birds	full sunlight, dry to wet conditions, acidic soils	~\$77.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus coccinea</i></b>	Scarlet Oak	Native RI species	Attracts mammals and birds	full sunlight, moist well-drained conditions, acidic soils	~\$21.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus ellipsoidalis</i></b>	Hill's Oak	native to US. fall colors	Attracts birds and small mammals	full sunlight, moist well-drained conditions, acidic soils			Medium, pruning in late winter, messy species
<b><i>Quercus imbricaria</i></b>	Shingle Oak	Durable species	Attracts birds and small mammals	full sun to partial shade, moist well-drained conditions		Bigelow Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus laevis</i></b>	American Turkey Oak	Durable species	underrepresented in NE	full sun to partial shade, moist well-drained conditions			Medium, pruning in late winter, messy species
<b><i>Quercus macrocarpa</i></b>	Bur Oak	Native RI species	Attracts birds and small mammals	full sun to partial shade, moist well-drained conditions	~\$25.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species

<b><i>Quercus nuttallii</i></b>	Nuttall Oak	Grows well in buffer strips around parking lots	underrepresented in NE, pest resistant, disease tolerant species	full sunlight, average to wet conditions, acidic soils		Bigelow Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus palustris</i> 'Fastigiata'</b>	Fastigiata Pin Oak	Grows well in buffer strips around parking lots	underrepresented in NE	full sunlight, dry to wet conditions, acidic soils		Millican Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus palustris</i> 'Pringreen'</b>	Pringreen Oak	Grows well in buffer strips around parking lots	underrepresented in NE	full sunlight, average to wet conditions, acidic soils	~\$434	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus robur</i> 'Fastigiata'</b>	Fastigiata English Oak	Grows well in buffer strips around parking lots	underrepresented in NE, pest resistant, disease tolerant species	full sunlight, moist to wet conditions		Millican Nurseries	Medium, pruning in late winter, messy species
<b><i>Quercus shumardii</i></b>	Shumard's Oak	fall color	Attracts birds and small mammals	full sun to partial shade, dry to wet conditions			Medium, pruning in late winter, messy species
<b><i>Quercus velutina</i></b>	Black Oak	fall color	Attracts birds and small mammals	full sun to partial shade, dry conditions, acidic soils	~\$14.50	Bigelow Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, messy species

<b><i>Robinia pseudoacacia</i></b> 'Lace Lady'	Twisty Baby Black Locust	Genus not currently represented	underrepresented in NE	full sun to partial shade, dry to moist conditions		Every Bloomin' Thing	Medium, pruning in late winter, messy species
<b><i>Rhododendron catawbiense</i></b>	Catawba Rhododendron	Genus not currently represented	underrepresented in NE	partial shade to full shade, moist well-drained conditions, rich acidic soils		Every Bloomin' Thing	Low, pruning after flowering, thick mulch around root zone
<b><i>Rhododendron maximum</i></b>	Rosebay Rhododendron	Genus not currently represented	Pollution tolerant	full sun to partial shade, moist well-drained conditions, rich acidic soils		Bigelow Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Rhus glabra</i></b>	Smooth Sumac	Genus not currently represented	underrepresented in NE	full sun, dry to moist conditions	~\$25	Sylvan Nurseries	High, pruning in late winter, risk of suckering
<b><i>Rhus typhina</i></b>	Staghorn Sumac	Genus not currently represented	Attracts butterflies, Pollution tolerant	full sun to partial shade, dry to moist conditions	~\$25	Bigelow Nurseries/ Sylvan Nurseries	High, pruning in late winter, risk of suckering
<b><i>Robinia pseudoacacia</i></b>	Black Locust	Genus not currently represented	Attracts insect pollinators	full sun to partial shade, dry to moist conditions			Medium, pruning in late winter, risk of disease

<b><i>Sequoiadendron giganteum</i></b> 'Powder Blue'	Powder Blue Giant Sequoia	Genus not currently represented	underrepresented in NE	full sun to partial shade, average to wet conditions			High
<b><i>Salix alba</i></b> 'Sericea/Argentea'	Silver Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium, pruning in late winter, risk of disease
<b><i>Salix aquatica</i></b> 'Gigantea Korso'	N/A	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium, pruning in late winter, risk of disease
<b><i>Salix babylonica</i></b>	Weeping Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions	~\$170	Every Bloomin' Thing/ Sylvan Nurseries	Medium, pruning in late winter, risk of disease
<b><i>Salix babylonica</i></b> 'Crispa'	Ram's Horn Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium, pruning in late winter, risk of disease
<b><i>Salix daphnoides</i></b>	European Violet Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium, pruning in late winter, risk of disease

<i>Salix discolor</i>	Pussy Willow	Underrepresented genus	Pollution tolerant	full sun to partial shade, average to wet conditions	~\$25	Millican Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, risk of disease
<i>Salix fragilis</i>	Crack Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium, pruning in late winter, risk of disease
<i>Salix matsudana</i> 'Snake'	Snake Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium, pruning in late winter, risk of disease
<i>Salix nigra</i>	Black Willow	Native to New England, Underrepresented genus	Attracts insect pollinators and bird	full sun to partial shade, moist to wet conditions		Bigelow Nurseries	Medium, pruning in late winter, risk of disease
<i>Salix purpurea</i>	Purple Basket Willow	Underrepresented genus	underrepresented in NE	full sun to partial shade, moist to wet conditions			Medium, pruning in late winter, risk of disease
<i>Sambucus canadensis aurea</i>	Aurea American Elder	Genus not currently represented	underrepresented in NE	full sun to partial shade, average to wet conditions			High, pruning in late winter, risk of suckering

<b><i>Sambucus nigra</i></b> <b>'Eva'</b>	Black Lace Elder	Genus not currently represented	Attracts birds, Pollution tolerant	full sun to partial shade, average to wet conditions	~\$30.50	Millican Nurseries/ Sylvan Nurseries	High, pruning in late winter, risk of suckering
<b><i>Sassafras albidum</i></b>	Sassafras	Native RI species, Genus not currently represented	Attracts birds and small mammals	full sun to partial shade, moist well-drained conditions, acidic soils	~\$14.25	Bigelow Nurseries/ Sylvan Nurseries	Low
<b><i>Saxifraga x arendsii</i></b>	Alpino Saxifrage	Genus not currently represented	underrepresented in NE	full sun to partial shade, average to wet conditions			Medium
<b><i>Sciadopitys verticillata</i></b> <b>'Wintergreen'</b>	Wintergreen Japanese Umbrella Pine	Underrepresented genus	underrepresented in NE	full sun to partial shade, average to wet conditions	~\$66.50	Millican Nurseries/ Sylvan Nurseries	Low
<b><i>Sequoia sempervirens</i></b>	Coast Redwood	Genus not currently represented	Endangered species	full sun to partial shade, average to wet conditions			High
<b><i>Sequoiadendron giganteum</i></b>	Giant Sequoia	Genus not currently represented	Endangered species	full sun to partial shade, average to wet conditions			High
<b><i>Sorbaria sorbifolia</i></b>	False Spirea	Genus not currently represented	Pollution tolerant, Attracts insect pollinators	full sun to partial shade, average to moist conditions		Millican Nurseries	High, pruning in late winter, risk of suckering

<b><i>Sorbus aucuparia</i></b>	European Mountain Ash	Genus not currently represented	Attracts butterflies and birds	full sunlight, moist well-drained conditions, acidic soils			Medium
<b><i>Sorbus rufoferruginea</i></b>	Longwood Sunset Mountain Ash	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions, acidic soils			Medium
<b><i>Sorbus wilsoniana</i></b>	Chinese Rowan	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions, acidic soils			Medium
<b><i>Spiraea x vanhouttei</i> 'Renaissance'</b>	Renaissance Spirea	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions, acidic soils		Millican Nurseries	Medium
<b><i>Stewartia pseudocamellia</i></b>	Japanese Stewartia	Genus not currently represented	underrepresented in NE	full sun to full shade, evenly moist well-drained conditions, rich acidic soils	~\$73.50	Amherst Nurseries/ Sylvan Nurseries	Low, pruning after flowering, thick mulch around root zone
<b><i>Styphnolobium japonicum</i></b>	Japanese Pagoda Tree	Genus not currently represented	underrepresented in NE	full sunlight, dry to moist conditions		Every Bloomin' Thing	Low
<b><i>Styphnolobium japonicum</i> 'Pendula'</b>	Weeping Japanese Pagoda Tree	Genus not currently represented	underrepresented in NE	full sunlight, dry to moist conditions			Low

<b><i>Styphnolobium japonicum</i> 'Regent'</b>	Regent Japanese Pagoda Tree	Genus not currently represented	underrepresented in NE	full sunlight, dry to moist conditions	~\$445	Sylvan Nurseries	Low
<b><i>Styrax japonicus</i> 'JFS-E'</b>	Snow Charm Japanese Snowbell	Underrepresented genus	underrepresented in NE	full sunlight, dry to moist conditions			Low
<b><i>Syringa pubescens</i> subsp. <i>patula</i> 'Miss Kim'</b>	Miss Kim Lilac	Underrepresented genus	Attracts butterflies, Pollution tolerant	full sunlight, dry to moist conditions	~\$40.50	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning after flowering
<b><i>Syringa reticulata</i> 'Ivory Silk'</b>	Ivory Silk Japanese Tree Lilac	Underrepresented genus	Attracts butterflies, Pollution tolerant	full sunlight, average to moist conditions	~\$208	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering
<b><i>Taxodium distichum</i></b>	Bald Cypress	Underrepresented genus	Attracts birds and small mammals	full sun to partial shade, dry to wet conditions, acidic soils	~\$218	Bigelow Nurseries/ Sylvan Nurseries	Low
<b><i>Taxus baccata</i> 'Fastigiata Robusta'</b>	Upright Robust English Yew	Slender tree (doesn't take up a lot of space)	underrepresented in NE	full sun to partial shade, average to moist conditions		Every Bloomin' Thing	Low
<b><i>Taxus cuspidata</i></b>	Japanese Yew	interest all year.	Attracts birds	full sun to partial shade, moist well-drained conditions			Low



<b><i>Taxus x media</i></b>	Anglo-Japanese Yew	interest all year.	underrepresented in NE	full sun to full shade, dry to moist conditions, acidic soil			Low
<b><i>Tetradium daniellii</i></b>	Beebee Tree	Genus not currently represented	underrepresented in NE	full sun to partial shade, average to moist conditions			Low
<b><i>Thuja occidentalis</i> 'Holmstrup'</b>	Holmstrup Eastern Arborvitae	Grows well in buffer strips around parking lots	underrepresented in NE	full sun to partial shade, average to moist conditions	~\$510	Every Bloomin' Thing/ Sylvan Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Thuja occidentalis</i> 'Nigra'</b>	Dark American Arborvitae	Grows well in buffer strips around parking lots	underrepresented in NE	full sun to partial shade, average to moist conditions	~\$69.50	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Thuja occidentalis</i> 'Smaragd'</b>	Emerald Arborvitae	Grows well in buffer strips around parking lots	underrepresented in NE	full sun to partial shade, average to moist conditions	~\$33.50	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning as needed, thick mulch around root zone
<b><i>Thuja occidentalis</i> 'Sunkist'</b>	Sunkist Arborvitae	Grows well in buffer strips around parking lots	underrepresented in NE	full sun to partial shade, average to moist conditions		Millican Nurseries	Low, pruning as needed, thick mulch around root zone

<b><i>Thuja x standishii</i></b> <b>'Green Giant'</b>	Green Giant Arborvitae	native to US. interest all year	Pollution tolerant	full sun to partial shade, average to moist conditions		Every Bloomin' Thing	Low, pruning as needed, thick mulch around root zone
<b><i>Thuja dolabrata</i></b>	Hiba Cedar	Genus not currently represented	underrepresented in NE	full sun to partial shade, average to moist conditions			Low, pruning as needed, thick mulch around root zone
<b><i>Thuja dolabrata</i></b> <b>'Variegata'</b>	Variegated Hiba Cedar	Genus not currently represented	underrepresented in NE	full sun to partial shade, average to moist conditions			Low, pruning as needed, thick mulch around root zone
<b><i>Tilia americana</i></b> <b>'Redmond'</b>	Redmond American Linden	Grows well in buffer strips around parking lots	Pest resistant species	full sun to partial shade, average to moist conditions	~\$526	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Tilia cordata</i></b> <b>'Corzam'</b>	Corinthian Littleleaf Linden	tolerant to salt and wind	underrepresented in NE	full sun to partial shade, average to moist conditions		Bigelow Nurseries	Low, pruning in late winter
<b><i>Tilia cordata</i></b> <b>'Greenspire'</b>	Greenspire Littleleaf Linden	Grows well in buffer strips around parking lots	Disease Tolerant Species	full sun to partial shade, moist to wet conditions	~\$450	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter

<b><i>Tilia platyphyllos</i></b>	Big-leaved Linden	tolerant to salt and wind	Attracts insect pollinators	full sun to partial shade, moist well-drained conditions, alkaline soils			Low, pruning in late winter
<b><i>Tilia tomentosa</i> 'PNI 6051'</b>	Green Mountain Linden	tolerant to salt and wind	underrepresented in NE	full sunlight, dry to moist conditions		Bigelow Nurseries	Low, pruning in late winter
<b><i>Tilia tomentosa</i> 'Sterling'</b>	Sterling Silver Linden	tolerant to salt and wind	Attracts bees, Pollution tolerant	full sunlight, dry to moist conditions		Bigelow Nurseries	Low, pruning in late winter
<b><i>Tsuga canadensis</i> 'Gentsch White'</b>	Gentsch White Hemlock	Underrepresented genus	underrepresented in NE	full sun to full shade, average to moist conditions, acidic soils		Millican Nurseries	Medium, pruning in late winter, risk of insect damage
<b><i>Tsuga canadensis</i> 'Pendula'</b>	Weeping Canadian Hemlock	Underrepresented genus	underrepresented in NE	full sun to full shade, average to moist conditions, acidic soils	~\$52.25	Millican Nurseries/ Sylvan Nurseries	Medium, pruning in late winter, risk of insect damage
<b><i>Tsuga canadensis</i> 'Sargentii'</b>	Sargent's Weeping Hemlock	Underrepresented genus	underrepresented in NE	full sun to full shade, average to moist conditions, acidic soils		Millican Nurseries	Medium, pruning in late winter, risk of insect damage
<b><i>Tsuga chinensis</i></b>	Chinese Hemlock	Underrepresented genus	underrepresented in NE	full sun to full shade, average to moist conditions, acidic soils			Medium, pruning in late winter, risk of insect damage

<b><i>Tsuga diversifolia</i></b> <b>'Loowit'</b>	Dwarf Northern Japanese Hemlock	Underrepresented genus	underrepresented in NE	full sun to full shade, average to moist conditions, acidic soils		Medium, pruning in late winter, risk of insect damage
<b><i>Tsuga sieboldii</i></b>	Southern Japanese Hemlock	Underrepresented genus	underrepresented in NE	full sun to full shade, average to moist conditions, acidic soils		Medium, pruning in late winter, risk of insect damage
<b><i>Ulmus 'Frontier'</i></b>	Frontier Elm	fall color. attractive bark	Attracts birds	full sunlight, moist well-drained conditions		Low, pruning in late winter
<b><i>Ulmus 'Morton'</i></b>	Accolade Elm	fall color. attractive bark	Attracts birds	full sun to partial shade, moist well-drained conditions		Low, pruning in late winter
<b><i>Ulmus 'Patriot'</i></b>	Patriot Elm	fall color. attractive bark	Attracts birds	full sunlight, moist well-drained conditions		Low, pruning in late winter
<b><i>Ulmus americana</i></b> <b>'Jefferson'</b>	Jefferson Elm	fall color. attractive bark	Disease Tolerant Species	full sun to partial shade, moist to wet conditions	Bigelow Nurseries	Low, pruning in late winter
<b><i>Ulmus americana</i></b> <b>'New Harmony'</b>	New Harmony Elm	fall color. attractive bark	Disease Tolerant Species	full sun to partial shade, moist to wet conditions	Bigelow Nurseries	Low, pruning in late winter

<b><i>Ulmus americana</i></b> <b>'Valley Forge'</b>	Valley Forge Elm	fall color. attractive bark	Pollution tolerant, Disease Tolerant Species	full sunlight, dry to wet conditions, salt tolerant	~\$413	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning in late winter
<b><i>Ulmus davidiana</i></b> <b>var. japonica</b> <b>'Prospector'</b>	Prospector Elm	fall color. attractive bark	Attracts birds	full sun to partial shade, moist well- drained conditions			Low, pruning in late winter
<b><i>Ulmus glabra</i></b> <b>'Camperdownii'</b>	Camperdown Elm	fall color. attractive bark	underrepresented in NE	full sun to partial shade, moist well- drained conditions		Every Bloomin' Thing	Low, pruning in late winter
<b><i>Ulmus parvifolia</i></b> <b>'Elmer II'</b>	All'ee Elm	fall color. attractive bark	underrepresented in NE	full sun to partial shade, moist well- drained conditions		Bigelow Nurseries	Low, pruning in late winter
<b><i>Ulmus propinqua</i></b> <b>'JFS-Bieberich'</b>	Emerald Sunshine Elm	fall color. attractive bark	underrepresented in NE	full sun to partial shade, moist well- drained conditions		Bigelow Nurseries	Low, pruning in late winter
<b><i>Viburnum plicatum</i></b> <b>f. tomentosum</b> <b>'Mariesii'</b>	Marie's Doublefile Viburnum	Underrepresen ted genus	Attracts birds, Pollution tolerant	full sun to partial shade, average to moist conditions		Bigelow Nurseries	Low, pruning after flowering
<b><i>Viburnum sieboldii</i></b>	Siedbold Viburnum	Underrepresen ted genus, Grows well in buffer strips around parking lots	Pest resistant species, Disease Tolerant Species	full sun to partial shade, moist well- drained conditions	~\$76	Bigelow Nurseries/ Sylvan Nurseries	Low, pruning after flowering

<b><i>Weigela florida</i></b> <b>'Alexandra' WINE</b> <b>AND ROSES</b>	Wine and Roses Weigela	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions, alkaline soils	~\$30.50	Bigelow Nurseries/ Sylvan Nurseries	Low
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<b><i>Wisteria floribunda</i></b>	Japanese Wisteria	Genus not currently represented	underrepresented in NE	full sunlight, moist well-drained conditions, alkaline soils		Every Bloomin' Thing	Low
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<b><i>Zelkova serrata</i></b> <b>'Goshiki'</b>	Goshiki Variegated Zelkova	Underrepresented genus	underrepresented in NE	full sunlight, moist to wet conditions	~\$91.50	Sylvan Nurseries	Low
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<b><i>Zelkova serrata</i></b> <b>'Village Green'</b>	Village Green Japanese Zelkova	Underrepresented genus, Grows well in buffer strips around parking lots	Pest resistant species	full sunlight, moist to wet conditions		Amherst Nurseries	Low
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## Appendix 4. Possible Tree Mascots for Salve Regina University Residence Halls

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Residence Halls	Possible Tree Options
<b>1<sup>st</sup> Year Residence Halls</b>	
Miley	#55 MAGNOLIA # 57 LONDON PLANETREE #60 AMELANCHIER #71 LEYLAND CYPRESS
Walgreen	#31 ACER #32 EUROPEAN BEECH #44 GINKGO #50 GINKGO
Hunt	#424 TILIA #436 THUJA #440 EUROPEAN BEECH #443 EUROPEAN BEECH
Reefe	#420 CORNUS # 422 PRUNUS #448 TILIA #449 LITTLELEAF LINDEN
<b>2<sup>nd</sup> Year Residence Halls</b>	
Wallace	#709 FAGUS #710 ACER #711 EUROPEAN BEECH #716 MAGNOLIA

Watts	#558 CHAMAECYPARIS #560 SYRINGA #597 CHAMAECYPARIS #601 NORWAY MAPLE
Young	#876 TAXUS #877 ULMUS #860 EUROPEAN BEECH #883 CRATEGUS
Ochre Lodge // Carolyn House	#823 TILIA #824 LITTLELEAF LINDEN #835 TILIA #837 THUJA
Moore	#413 SWEETGUM #418 NORWAY MAPLE #412 CHAMAECYPRIS #517 THUJA
Founders	#740 JAPANESE FLOWERING CHERRY #758 NORWAY MAPLE #760 ACER #744 TILIA
Conley	Unknown
<b>3<sup>rd</sup> &amp; 4<sup>th</sup> Year Residence Halls</b>	
Fairlawn // French Cottage	#873 CHAMAECYPARIS #876 TAXUS #875 SLIPPERY ELM #880 CRATAEGUS



Graystone	#772 PICEA #776 EUROPEAN BEECH #778 MALUS #780 LITTLELEAF LINDEN
Narragansett	UNKNOWN VIA TREE INVENTORY MAP
Nethercliffe // Carriage House	#782 LIRIODENDRON #810 FULLMOON MAPLE #811 JAPANESE ZELKOVA #813 CORNUS
Stoneacre	#666 PRUNUS #665 NORWAY MAPLE
Hedges	#753 CORNUS #752 MALUS #756 YEW SPECIES #762 LONDON PLANET TREE
Carnlough	#557 EUROPEAN BEECH #1108 QUERCUS #545 WHITE WILLOW #556 MALUS
162 Webster	#64 AESCULUS #66 HORSECHESTNUT #90 SAWTOOTH OAK
134 Webster	UNKNOWN VIA TREE INVENTORY MAP
204 Ruggles	#705 NORWAY MAPLE #709 FAGUS #702 CHAMAECYPARIS #668 QUERCUS

26 Lawrence	#520 CHAMAECYPARIS #536 MALUS #529 BETULA #530 WHITE WILLOW
74 Victoria	#542 PRUNUS #549 WHITE WILLOW #551 NORWAY MAPLE
80 Victoria	#533 FAGUS #537 ENGLISH OAK
87 Victoria	#772 PICEA #776 EUROPEAN BEECH #778 MALUS