



**Tree Health Assessment Report  
Seven Hills Park**

Somerville Parks Tree Health Program

IFB #20-19

Prepared by Alden Johnson, MCA, ISA

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December 16, 2019

***Revised with additional trees on 1.15.20***

## **Overview:**

Seven Hills Park is a passive park located adjacent to the busy Davis Square T station. It is bisected by the community bike path and sees daily heavy foot traffic from commuters. Ground cover is grass bisected by concrete paths. In the summer large groups use the grassy areas for movie screenings and outdoor activities. The park is home to 55 deciduous shade trees, ornamentals and 1 small evergreen Hemlock. The majority of the trees in the park are Callery Pear trees lining the community bike path. Callery Pear is a species that is predisposed to weak branch attachments and storm damage

## Soil Health

The soil throughout the park is moderately to heavily compacted. Areas around the pear trees along the edge of the community bike path are especially compacted and should be remediated by air excavation, mixing in of compost and mulching. Soil is dark-colored with some organic matter in the top 1-3 inches and sandy-gravelly base beneath that and in close proximity to the paths. No odor. Soil test analysis shows an overall soil PH of 5.5, which is more acidic than optimal for deciduous trees. To reach a target PH of 6.0 soil should be treated with a topdressing of lime in the spring and fall and retested. Levels of Calcium and Phosphorus are lower than optimal as well. We do not recommend supplementing for macronutrients at this time, but continue to monitor and observe fall soil analysis after remediation and lime applications.

## Pest treatment

There are (3) Ash trees (#43803, #43826, #43821) in this park which are host species to the serious invasive insect Emerald Ash Borer, but no sign of infestation at the time of this report. These trees should be monitored and treated regularly to protect from EAB infestation. It is my understanding that they are currently included in the city-wide EAB protection plan under a separate contract.

Monitor for fungal leaf diseases after the heavy disease pressure this past season. Recent defoliating caterpillars such as winter moth should not be a factor with this pest's population way down. Trees should be monitored and treated if necessary.

## Other correction of adverse conditions

Evidence of recent storm damage and actively splitting unions in select the Callery Pear trees- in one case large main trunk failure. Most of the larger pear trees in the eastern end of this park (closest to the train station) have multileader structure with included bark at the main trunk unions. It is our opinion that these trees are nearing the end of their useful life cycle in this setting and will become increasingly susceptible to storm damage and structural failure in the coming years. Complete failure of one tree in moderate winds between the site survey and the writing of this report reinforces this opinion. Select removal of the worst specimens and weight-reduction pruning of the remaining trees is recommended as part of the attached work plan to

address these concerns in the short term. Long term management plan should consider phased replanting and removal of all older pear trees along the main path in the next 5-10 years. Our level 1 TRAQ assessment of these trees results in a low risk rating, with a moderate risk rating for tree #43683 and #43779

### General tree health, pruning and removal

The park's tree planting layout is separated into 3 distinct zones. General health and current pruning and removal needs are evaluated by zone as follows:

Zone 1: Pears and young trees along the Community Path (34 Trees total)

Zone 2: Maples, and Large Ash along Meacham St, as well as train station trees (14 trees total)

Zone 3: West Border: Various deciduous trees (7 trees total)

### **Zone 1: Pears along the Community Path**

#### General Health

Callery Pears are fast growing ornamental deciduous trees that are tolerant of harsh soil conditions. The species has vigorous but leggy limbs that originate from acute and poor branch attachments at the main trunk, often with included bark grown into the wood fiber. If not trained through regular pruning beginning at a young age, these trees will develop a leggy multileader branch structure that is prone to storm damage in New England weather. Several of these trees have evidence of recent branch failure.

To improve root health soil compaction at the base of these trees should be remediated by careful excavation with an air excavation tool in a 3' plus radius around the trunks, addition and tilling in of compost into the soil. Mulch should be added around the base of the tree to limit soil compaction, weed growth and mower damage. Note: the air excavation and mulch plan in the work plan following includes adding large area beds on either side of the community path and along Meacham Road per request of the parks department. This was not included in the initial project specs.

#### Pruning needs

Mature trees should be pruned provide 6-8' of clearance off the buildings, Street lights, sculpture displays as well as 10' off the walkway and lawn. Canopy clean to remove dead and broken branches 1.5" and larger. Longer leggy branches originating from weak unions should be reduced to limit weight and leverage on the unions through a series of 1-3" weight reduction cuts. Young trees should be pruned regularly to promote proper branch structure to avoid future structural problems.

#### Removal needs

#43779 (17" Callery Pear), #43683 (17.5" Callery Pear). Both these trees lean over the busy bike bath and have numerous weak unions. #43779 has recent history of storm damage and has a

large storm-damage wound to the main trunk. #43683 has a visible vertical crack in between the main codominant stems.

## **Zone 2: Maples and Large Ash along Meacham St**

### General Plant Health

The Red Maples in this group appear to have generally good biological vigor. Several of the trees have co-dominant stems and girdling roots, which will become problematic in the future and should be corrected through root and structural canopy pruning. The two trees closest to the train station (#43741, #43731, #43712, #43814) have evidence of stress: smaller size than the rest of the group, and some spring buds late to set in the upper canopy, and 10-40% dieback.

The large Ash (#43803) at the corner of Meacham Rd and Buena Vista Rd is a specimen tree. It appears to have significant amount of deadwood in the canopy. Based on the appearance of buds set in November the tree and may have some declining sections of canopy, the extent of which will be more evident in the spring.

Extremely thick fibrous root layer around the Maple trunks makes extensive air excavation impractical, but root pruning should be performed on visible girdling roots on the surface. Mulch should be added around the base of all the trees in this zone to limit soil compaction, weed growth and mower damage, and per the parks department's request.

### Removal needs

#43707 (9.7" Red Maple) is completely dead and should be removed. The tree to its right, #43814 has nearly 50% dieback in the canopy, and may be considered for removal by the City Urban Forester/Tree Warden.

### Pruning needs

The trees in this group present a low risk. Red Maples in this zone should be pruned to provide 6-8' of clearance off street lights, sculpture displays as well as 10' off the sidewalk and lawn and 14' off Meacham St, and 3-5' off the subway station fence. Canopy clean to remove dead and broken branches 1" and larger. Codominant stems should be subdued through select 2-3" reduction cuts in the upper 1/3<sup>rd</sup> of canopy. The Ash tree should be pruned to remove deadwood 2" diameter and larger and to provide 6-8' of clearance off street lights, sculpture displays as well as 10' off the sidewalk and lawn and 14' off Meacham St. Small Elm and Honeylocust trees closest to the strain station should be young tree trained to establish future structure.

## **Zone 3: West Border: Various deciduous trees**

### General Plant Health

This zone consists of several mature deciduous trees around the western border of the park (Ash, Norway Maple, Pin Oak, and one large Zelcova tree). In general these trees appear to be in good biological health, and are not interfering with park functions. The area under the trees is not heavily used. Soil compaction is moderate.

### Pruning needs.

Based on our observations these trees present a low risk. No need to remove any trees. Trees should be pruned to remove deadwood 2” in diameter and larger.

### **2020 Priorities:**

- Remove problematic Callery Pears
- Canopy cleaning, thinning, raising, structural pruning of remaining Callery Pears, Red Maples
- Young tree training
- Soil aeration, amendment, mulch of Pears and Maples, large Ash

### **10-Year Priorities:**

- Gradually remove of all older Callery pears to make room for replacement trees
- Retrenchment pruning of older Callery Pears
- Young tree training of existing and newly planted young trees
- Monitor/Amend soil as needed.



## Accredited Tree Care by Certified Arborists

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Somerville, MA 02143

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January 15, 2020  
Proposal #: 37334

Job Site: 6  
Somerville Parks Tree Health Program  
IFB#20-19  
Various Locations  
Somerville, MA 02143

Phone: 617-625-6600 x2514  
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### Tree and Shrub Care Recommendations on 11/19/2019

#### Description of Services

#### - Seven Hills Work Plan

**Map:** See attached

**Schedule and sequence:** We plan to complete the pruning and removal work proposed during the hours of 7AM-3PM over the course of 6 consecutive business days to be named in February-March 2020. Root air excavation work and mulch would take 5 days and be scheduled for March-April 2020.

#### **Crew and Equipment:**

*Pruning work (along streets):* 2 person crew, including a certified arborist, wood chipper and truck-mounted aerial lift for pruning work

*Pruning work (on community path and over MBTA tunnel):* 2 person climbing crew, including a certified arborist, truck and wood chipper parked on street.

*Removal work:* 3 person crew with a certified arborist, chipper and truck-mounted aerial lift for removal work.

*Root air excavation work:* 2 person crew including a certified arborist, trailer-mounted air compressor, Air-Spade tool and light-duty dump truck.

*Mulch work:* 2 person crew, including certified arborist, light duty dump truck and Wacker Nueston articulating wheeled loader (7,496lbs)

*Lime Applications:* One licensed applicator with a light-duty pickup truck and hand-pushed granular spreader, spring and fall visits

**Park Closures:** No need to close the park. We will cordon off each zone as we work and leave at least (1) walking path through the park open to the public. Community path will have to be detoured around the south sidewalk during all operations for trees immediately adjacent to the path.



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged).  
All work performed in accordance with ANSI A300 Standards.

Payment due upon completion of work. 1 ½% per month, 18% per year on unpaid balances.



# Tree and Shrub Care Recommendations on 11/19/2019

## Description of Services

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- **Traffic and Pedestrian Management plan:** Allow for vehicular traffic and pedestrians to safely pass the work site, and detour pedestrian path as necessary. Use proper signage, cones and caution tape to clearly identify the work site as outlined below, and utilize a police detail to ensure safety. Written plan to be submitted to city traffic engineer for approval prior to work.

**Equipment access and matting:** We will not be accessing non-paved surfaces or pathways over the MBTA tunnel with trucks or heavy equipment. No stump grinding done as part of this project. City to obtain access for us to setup our equipment on the access road to the private parking garage and office building to the north of the Community path and trees (Building owned by Harvard Vanguard)

### *Zone 1: Pears along the Community Path*

- **(5) Remaining large Callery pears on either side of the Community path, closest to the Davis Square train station**

**Structural Pruning** - Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs.

**Canopy Cleaning** - Selective pruning to remove declining, dead and broken branches greater than 1.5" in diameter

**Canopy Reduction** - Selective pruning to decrease height and/or canopy spread of poorly attached limbs through a series of (6-10) 1-3" diameter weight reduction cuts per tree.

**Canopy Thinning** - Selective pruning to reduce density of live interior limbs by approximately 10-15%.

**Canopy Raising** - Selective pruning to provide a 3-5 foot envelope of clearance off sculptures, street lights and buildings, and 10' off the pathway and lawn.

- **#43779 (17" Callery Pear), #43683 (17.5" Callery Pear) on the north side of the community path:**

**Tree Removal** - Take down and cut stump low to grade as equipment allows, dispose of brush, logs and chipped debris generated from removal operations.

- **(2) Newly established Callery Pears and (2) newly established Lindens on the south side of the community path (#43752, 43740, 43720, 43730)**

**Young Tree Training:** Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs.



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# Tree and Shrub Care Recommendations on 11/19/2019

## Description of Services

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### - (15) Mature Callery Pears on either side of the community path, Buena Vista Rd side

**Structural Pruning** - Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs.

**Canopy Cleaning** - Selective pruning to remove declining, dead and broken branches greater than 1.5" in diameter

**Canopy Reduction** - Selective pruning to decrease height and/or canopy spread of poorly attached limbs through a series of (6-10) 1-3" diameter weight reduction cuts per tree.

**Canopy Thinning** - Selective pruning to reduce density of live interior limbs by approximately 10-15%.

**Canopy Raising** - Selective pruning to provide a 3-5 foot envelope of clearance off sculptures, street lights and buildings, and 10' off the pathway and lawn.

Note: This estimate assumes City has obtained access for us to setup our equipment on the access road to the private parking garage and office building to the north of the Community path and trees (Building owned by Harvard Vanguard)

### - 13" Catalpa, tree #43762.

**Canopy Cleaning** - Selective pruning to remove declining, dead and broken branches greater than 1.5" in diameter. (price included in above item)

### - Soil Aeration Zone 1 Trees (27 total)

Soil Aeration: Approximately 5,500 square ft

Compost addition to soil: 5,500 square ft

**3" mulch layer over aerated area: 5,500 square ft**

### - Zone 2: Maples and Large Ash along Meacham St, trees close to train station fence

### - 6" diameter Elm (#43802) and 3.5" Honeylocust (#43794) close to the train station:

**Young Tree Training:** Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs.



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged).  
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# Tree and Shrub Care Recommendations on 11/19/2019

## Description of Services

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### - (8) Red Maples along Meacham Rd

**Structural Pruning** - Selective pruning to improve branch architecture and subdue codominant stems through select 2-3" reduction cuts in the upper 1/3<sup>rd</sup> of canopy.

**Canopy Cleaning** - Selective pruning to remove declining, dead and broken branches greater than 1.5" in diameter.

**Canopy Raising** - Selective pruning to provide 6-8' of clearance off street lights, sculpture displays as well as 10' off the sidewalk and lawn and 14' off Meacham St.

### - (8) Red Maples along Meacham Rd

**Root Crown pruning** - Utilize air excavation tools to expose root flare; inspect and prune out conspicuous girdling roots smaller than 2" diameter surrounding the trunk.

### - (10) Red Maples, (1) 6 Elm, (1) Honeylocust and (1) Large Ash along Meacham Rd Soil Aeration Zone 2 Trees (9 total)

Soil Aeration: Approximately 3,720 square ft

Compost addition to soil: 3,720 square ft

3" mulch layer over aerated

### - 50" diameter Ash at the corner of Meacham Rd and Buena Vista (#43803)

**Canopy Cleaning** - Selective pruning to remove declining, dead and broken branches greater than 2" in diameter.

**Canopy Raising** - Selective pruning to provide 6-8' of clearance off street lights, sculpture displays as well as 10' off the sidewalk and lawn and 14' off Meacham St.

### - Zone 3: West Border: Various deciduous trees

### - (8) Various large deciduous trees (Ash, Norway Maple, Pin Oak, and one large Zelcova tree)

**Canopy Cleaning** - Selective pruning to remove declining, dead and broken branches greater than 2" in diameter.

- **Lime Application - Zones 1 and 2 Spring Application:** Apply granular calcitic lime within the critical root zone of trees in all zones to help adjust soil pH within desired growing range of deciduous trees in Zones 1 and 2.



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged).  
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# Tree and Shrub Care Recommendations on 11/19/2019

## Description of Services

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- **Lime Application - Zones 1 and 2 Fall Application:** Apply granular calcitic lime within the critical root zone of trees in all zones to help adjust soil pH within desired growing range of deciduous trees in Zones 1 and 2.

- Posting of "No Parking" signs on Meacham Rd

- **Police Detail**

- **Debris Disposal:** Costs include removal and disposal of brush, logs and chipped debris generated from tree care operations.

Deposit Required: Total:  
Deposit Received:

Thank you for considering Barrett Tree Service East, Inc. Sincerely,

Alden Johnson  
Certified Arborist



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged).  
All work performed in accordance with ANSI A300 Standards.

Payment due upon completion of work. 1 ½% per month, 18% per year on unpaid balances.







Seven Hills Zone 2 Continued (Train Station Trees)

Site ID	Species	DBH	Work Recommended	Condition Overall	Risk Rating
<b>Seven Hills Zone 1: Trees along Community Path, West to East</b>					
43695	pear: callery (Pyrus calleryana)	11.7	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43700	pear: callery (Pyrus calleryana)	12.9	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43807	pear: callery (Pyrus calleryana)	9.3	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43706	pear: callery (Pyrus calleryana)	13.4	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43788	hemlock: eastern (Tsuga canadensis)	3.7	not included in scope	Dead	Low
43798	pear: callery (Pyrus calleryana)	8.9	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43716	pear: callery (Pyrus calleryana)	11.1	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43730	linden: littleleaf (Tilia cordata)	6.5	Young tree training	Fair	Low
43811	pear: callery (Pyrus calleryana)	14.4	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
43778	stump (Stump)	4.5	not included in scope	N/A	N/A

pear: callery 43804 ( <i>Pyrus calleryana</i> )	10.8	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43792 ( <i>Pyrus calleryana</i> )	10.1	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
linden: littleleaf 43720 ( <i>Tilia cordata</i> )	4.5	Young tree training	Good	Low
pear: callery 43785 ( <i>Pyrus calleryana</i> )	13.3	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43740 ( <i>Pyrus calleryana</i> )	3.9	Young tree training	Fair	Low
pear: callery 43773 ( <i>Pyrus calleryana</i> )	14.2	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43752 ( <i>Pyrus calleryana</i> )	3.3	Young tree training	Good	Low
catalpa: northern 43762 ( <i>Catalpa speciosa</i> )	13	Canopy cleaning	Good	Low
pear: callery 43748 ( <i>Pyrus calleryana</i> )	14.2	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43737 ( <i>Pyrus calleryana</i> )	11.7	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43763 ( <i>Pyrus calleryana</i> )	18	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Poor	low

pear: callery 43729 (Pyrus calleryana)	13.6	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43718 (Pyrus calleryana)	15.9	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Poor	Low
43705 stump (Stump)	2.6	not included in scope	N/A	N/A
hemlock: eastern 43699 (Tsuga canadensis)	3.2	not included in scope	Fair	Low
pear: callery 43776 (Pyrus calleryana)	14.7	Not included in scope (fell in storm)	Fair	Low
dogwood: flowering (Cornus 43693 florida)	5.6	not included in scope	Dead	Low
dogwood: flowering (Cornus 43688 florida)	5.5	not included in scope	Fair	Low
pear: callery 43683 (Pyrus calleryana)	17.3	Removal	Poor	Moderate
pear: callery 43787 (Pyrus calleryana)	14.4	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43805 (Pyrus calleryana)	13.5	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43797 (Pyrus calleryana)	14.9	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low
pear: callery 43796 (Pyrus calleryana)	11.5	Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning Canopy Raising	Fair	Low

		Structural Pruning Canopy Cleaning Canopy Reduction Canopy Thinning		
pear: callery 43789 (Pyrus calleryana)	17.9	Canopy Raising	Fair	Low
43806 stump (Stump)	14	Not included in scope	N/A	N/A
pear: callery 43779 (Pyrus calleryana)	16.7	Removal	Poor	Moderate
<b>Zone 2: Trees along Meacham Rd, West to East</b>				
ash: white (Fraxinus 43803 americana)	48.7	Canopy Cleaning, canopy raising	Fair	Low
maple: red (Acer 43795 rubrum)	16.5	Structural Pruning Canopy Raising Canopy Cleaning	Good	Low
maple: red (Acer 43783 rubrum)	17.9	Structural Pruning Canopy Raising Canopy Cleaning	Good	Low
maple: red (Acer 43775 rubrum)	17.6	Structural Pruning Canopy Raising Canopy Cleaning	Good	Low
maple: red (Acer 43758 rubrum)	15.1	Structural Pruning Canopy Raising Canopy Cleaning	Fair	Low
maple: red (Acer 43751 rubrum)	13.9	Structural Pruning Canopy Raising Canopy Cleaning	Good	Low
maple: red (Acer 43741 rubrum)	15.1	Structural Pruning Canopy Raising Canopy Cleaning	Good	Low
maple: red (Acer 43731 rubrum)	10.4	Structural Pruning Canopy Raising Canopy Cleaning	Good	Low
maple: red (Acer 43721 rubrum)	9	Structural Pruning Canopy Raising Canopy Cleaning	Fair	Low
maple: red (Acer 43712 rubrum)	7.4	Structural Pruning Canopy Raising Canopy Cleaning	fair	Low
maple: red (Acer 43707 rubrum)	9.2	Removal	dead	Low
maple: red (Acer 43814 rubrum)	9.7	Structural Pruning Canopy Raising Canopy Cleaning	Fair	Low

43802 elm: hybrid	5.1 Young tree training	Good	Low
honeylocust:thor 43794 nless (Gleditsia)	3 Young tree training	Good	low
<b>Zone 3: Trees on West side of Buena Vista Rd</b>			
maple: Norway 43818 (Acer platanoides)	10.2 Canopy cleaning	Fair	Low
oak: northern red 43810 (Quercus rubra)	20.2 Canopy cleaning	Fair	Low
oak: northern red 43801 (Quercus rubra)	16.6 Canopy cleaning	Good	Low
zelkova: Japanese 43831 (Zelkova serrata)	20 Canopy cleaning	Fair	Low
ash: white (Fraxinus 43826 americana)	20.4 Canopy cleaning	Fair	Low
ash: white (Fraxinus 43821 americana)	12.9 Canopy cleaning	Fair	Low
maple: Norway 43813 (Acer platanoides)	22.3 Canopy cleaning	Good	Low