



BOROUGH OF
WOODCLIFF LAKE

**Community Forestry Management Plan
2018-2022**

Mayor and Council

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Thomas Panso, Council President

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Kristy Herrington
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Debbie Dakin, Borough Clerk
Harold Laufeld, III, Chief Financial Officer
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Angela Hayes, Council Representative
Ray Blackton, DPW Supervisor
Tom Ivanovich, DPW

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This plan was prepared in accordance with the New Jersey Shade Tree and Community Forestry Assistance Act, P.L. 1996, Chapter 135.

August 31, 2017

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I. MUNICIPAL/COUNTY INFORMATION FORM

Municipality	Borough of Woodcliff Lake
County	Bergen County
Address	188 Pascack Rd. Woodcliff Lake, NJ 07677
Contact Name and Title	Marilyn Clark, Chair Arbor Day and Tree City
Phone #	201-391-4977
Fax # and E-mail	201-391-8830 mjclark@yahoo.com
Organization Name	Borough of Woodcliff Lake Shade Tree Committee
Mayor/County Freeholder's Signature	
Date of Management Plan Submission	October 2017
Time Period Covered in Management Plan	January 1, 2018 – December 31, 2022

Community Stewardship Incentive Program (CSIP) Practices Identified in Management Plan	<input checked="" type="checkbox"/> CSIP #1 Training <input checked="" type="checkbox"/> CSIP #2 Community Forestry Ordinance Establishment <input checked="" type="checkbox"/> CSIP #3 Public Education and Awareness <input checked="" type="checkbox"/> CSIP #4 Arbor Day <input checked="" type="checkbox"/> CSIP #5 Tree Inventory <input checked="" type="checkbox"/> CSIP #6 Tree Hazard Assessment <input checked="" type="checkbox"/> CSIP #7 Storm Damage Assessment <input checked="" type="checkbox"/> CSIP #8 Tree Maintenance and Removals <input checked="" type="checkbox"/> CSIP #9 Insect and Disease Management <input type="checkbox"/> CSIP #10 Wildfire Protection <input checked="" type="checkbox"/> CSIP #11 Tree Planting <input checked="" type="checkbox"/> CSIP #12 Tree Recycling <input checked="" type="checkbox"/> CSIP #13 Sidewalk Maintenance Program <input type="checkbox"/> CSIP #14 Storm Water Management <input type="checkbox"/> CSIP #15 Other
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**Official Use Only
Certification**

The above named municipality/county has made formal application to the New Jersey Forest Service. I am pleased to advise you that after our review, the NJ Forest Service has concluded that this plan meets the standards set forth by the State and the NJ Community Forestry Council and is approved for the period covered.

Signed _____
State Forester Approved Date _____

II. INTRODUCTION

This 2nd 5-year Community Forestry Management Plan (CFMP) for the Borough of Woodcliff Lake, Bergen County is prepared in accordance with the New Jersey Shade Tree and Community Forestry Act, P.L. 1996, Chapter 135 to guide the Borough in its efforts to create, protect, sustain and manage a robust healthy tree resource for the environmental, aesthetic and economic benefit of residents, visitors and businesses. The efforts of the Woodcliff Lake Shade Tree Committee (WLSTC) during the next 5-year period will focus on continuing existing tree related programs including tree planting and tree care with an added emphasis on keeping the inventory of Borough trees up-to-date and implementing action plans responsive to the needs of the tree resource as revealed by the inventory data.

Members of the WLSTC met with ForesTree Consultants (FTC) on May 15, 2017 to collect information and to discuss elements of the plan. WLSTC members held a brainstorming session in preparation for the meeting with FTC. This meeting proved very valuable to the discussion with FTC and facilitated concise and timely information transmission from the WLSTC to FTC. After the meeting, FTC toured the Borough to gain insight and impressions regarding the status of the Borough's trees, its needs and opportunities. This plan organizes the thoughts of the aforementioned into the context required by the Act and outlines goals and objectives for the future. Approval of this plan by the State Forester, following approval by Borough officials, and after favorable recommendation by the NJ Community Forestry Council; will provide additional liability protection to the Borough under the provisions of the New Jersey Shade Tree and Community Forestry Act. Approval will also render the Borough eligible to receive grant funds from the Department of Environmental Protection NJ Forest Service to assist in the implementation of this plan.

Mission Statement:

The mission of the Woodcliff Lake Shade Tree Committee as stated in the Borough ordinance is "to advise the Governing Body on all matters concerning the regulation, planting,

removal, care and control of shade and ornamental trees and shrubbery upon and in the streets, highways, public places and parkways, [which] shall be exercised by and be under the authority of the Shade Tree Committee of the Borough of Woodcliff Lake.”

Goals and Objectives:

A Goal is defined as the result or achievement toward which effort is directed; aim; end.

A Goal may not be reached and is expressed as desirable future condition or sustaining a favorable current state. Objectives are measurable acts undertaken to achieve and/or pursue a goal.

Goal #1:

To sustain the existing cooperative enterprise, funding, administrative capacity and technical knowledge of Shade Tree Committee members and selected Department of Public Works(DPW) personnel.

Objectives of Goal #1:

- a) Administer the amended Tree Ordinance, circa August 2016. See Appendix #2.
- b) Participate with the Woodcliff Lake “Green Team” associated with Sustainable, New Jersey.
- c) Continue to hold scheduled agenda driven meetings of the WLSTC.
- d) Identify external stakeholders and partnerships, and develop appropriate engagement model and communications plan.
- e) Maintain participation of DPW and liaison with Borough Council.
- f) Engage in discussion with Mayor and Council on gaining Commission status.
- g) Maintain at least 1 CORE trained WLSTC member and one Borough employee (preferably a DPW supervisor).
- h) Maintain membership in the NJ Shade Tree Federation and attend annual meetings.
- i) Provide educational opportunity to DPW employees and WLSTC members in tree inventory, tree hazard identification, tree pruning methods, tree species and chainsaw safety as appropriate.
- j) Explore funding opportunities such as corporate sponsors, grants, builders escrow, mitigation and fines via Borough ordinance.
- k) Consider designating and plan for the use of NJ Certified Tree Experts during emergency events via the Borough’s Emergency Management Plan. Liz Stewart was appointed Borough CTE in 2017, replacing Bill Comery.

- l) Designate WLSTC liaison persons to United Water, Verizon, Bergen County Shade Tree Commission, Garden State Parkway, State of New Jersey, local shops and businesses, PSE&G and corporations.
- m) Prepare and submit annual(January) reports to the NJ Forest Service Community Forestry Program.
- n) Continue to seek new STC members as vacancies occur.

Goal #2:

To maintain up-to-date data on the extent, location, composition and condition of the Borough's shade trees.

Objectives of Goal #2:

- a) Continue STC member and DPW practice of "windshield" surveys; and to establish a simple method to record observations made by date and observer.
- b) Keep inventory data up-to-date by developing a system to record trees removed, pruning, deadwood removals and tree plantings.
- c) Appoint and train a person responsible for collecting new data and entering data into the existing system.
- d) Continue to utilize i-Tree reports to guide priorities and inform persons other than STC members regarding Borough trees and their benefits to the Borough.

Goal #3:

To maintain and ensure the safety of the Borough's trees.

Objectives of Goal #3:

- a) Based upon information from the WLSTC, DPW and homeowner reports as well as information from the inventory and assessment; develop a priority listing of trees to be removed or pruned.
- b) Inform and advise the Mayor and Council regarding the location and extent of hazardous tree conditions including predicted impacts of the Emerald Ash Borer (EAB).
- c) Develop and advocacy program for tree maintenance. 'Preach' that long-term care begins when trees are planted, investments in proper tree pruning extends tree life, and focusing just on removals is the result of long-term neglect of tree health between planting and death.
- d) Continue to educate homeowners regarding tree hazards, proper tree care techniques (mulching, pruning and elevation) and personal safety when cutting and pruning trees. Advise homeowners of predicted impacts of the Emerald Ash Borer (EAB).
- e) Encourage the use of N.J. Certified Tree Experts by the Borough and homeowners for tree maintenance and care work.

- f) Continue to require tree companies to register with the Borough prior to working on trees in the Borough.

Goal #4:

To conserve and sustain natural vegetation, wooded areas and shade trees which are integral to the Borough's aesthetics (*from 2008 Master Plan*).

Objectives of Goal #4:

- a) Address the emerging threat from Emerald Ash Borer by advising the Mayor and Council regarding the status of EAB, mitigation recommendations and implementation of a program to remove dead and infested trees. See the [NJ Department of Agriculture EAB website](#) and the [EAB Information Network](#).
- b) Promote no-net loss policies (a 'Sustainable NJ' measure) to retain the estimated 60% tree canopy in the Borough.
- c) Continue enforcement of the amended Tree Ordinance requirements for tree replacement after tree removal by residents and/or developers (see Appendix #2).
- d) Complete long-range planning for tree planting based on inventory of available planting spots. Continue annual tree plantings at the rate of 30-70 per year.
- e) Continue to diversify species selected/recommended for planting – concentrate on native hardwood species.
- f) Enhance gateways and Borough owned lots via tree planting, tree maintenance and 'clean-up'. Focus on Apple Ridge, Old Pascak Road, the Railroad tracks and the end of the Causeway.
- g) Place emphasis on maintenance of Causeway trees and provide leadership in maintaining other town showcase areas such as:
 - Tennis court and Pool Landscaping
 - Arboretum and Nursery
- h) Continue the DPW recycling service to property owners of branches, Christmas trees and leaf pickup.
- i) Continue the efforts begun in during the past 5-years to add to the number of trees planted in the Arboretum and Nursery.

Goal #5:

To be an advocate for the Borough's trees by informing/educating residents, elected officials and others of the benefits, proper practices and activities/programs related to the Borough's trees.

Objectives of Goal #5:

- a) Continue the Borough's proclamation and celebration of Arbor Day.

- b) Continue participation and awards from Tree City, USA.
- c) Continue to utilize social media (Facebook, Twitter, etc.) postings or the Borough's website and electronic gateway sign to inform residents on seedling availability, recycling, ordinances, Arbor Day programs and other information relative to tree care:
 - Identify and list wetland tree and shrub species for builders and homeowners.
 - Ordinances
 - Insects and diseases affecting trees. EAB information from [NJ Department of Agriculture](#) and the [EAB Information Network](#).
 - Proper mulching, pruning and elevation
- d) Expand the Borough Arboretum and maintain the Tree Nursery.
- e) Engage in educational and outreach seminars for contractors and homeowners.
- f) Conduct outreach to Borough Schools to develop educational opportunities for children. Continue 'Project Learning Tree' component to Arbor Day celebrations.

Liability Statement:

Trees in the Borough of Woodcliff Lake are dominant in the landscape and create a pleasing environment for living, work, and play. Although street trees are an asset to the community, it is inevitable that they mature and require care, maintenance and eventually replacement. Care and maintenance, in addition to planting "the right tree in the right place," can help ensure community trees not only contribute to the environmental and economic vitality of the area, but also reduce the potential hazards to public safety. Woodcliff Lake must work within a reasonable budget that may not be able to meet each and every need of the community forest immediately. Therefore, it is the intent of this plan to focus available resources on the greatest need and outline a step by step action plan to achieve a healthy forest with commensurate reduced risks to public safety.

The Borough feels, by taking the logical steps outlined in the plan, it will garner public support for plan implementation and demonstrate long-term benefits to the environment and public safety. The Borough seeks to maintain and improve its program for management and care of the trees. Through hazard assessment, the Mayor and Council can enable corrective action by its employees, contracted professionals, the local utility, or the county prior to structural tree failure and other hazardous tree related conditions. It is acknowledged that not

all hazardous conditions will be predicted, however, good maintenance and care will reduce the probability of tree failures. The Borough also wants to increase homeowner and school children's awareness, appreciation, and knowledge of trees to enable them to contribute well-informed and meaningful efforts towards the health and sustainability of Woodcliff Lake's trees.

Following this Community Forestry Management Plan will demonstrate that the Borough of Woodcliff Lake is devoting reasonable levels of resources in a planned manner to reduce the number of tree related accidents, and thereby, reduce its exposure to liabilities and increase public safety.

III. Community Overview & 5-Years of Progress

Overview:

The Borough of Woodcliff Lake is located in the northwest portion of Bergen County, consisting of about 2,300 acres or 3.6 sq. miles. It is an up-scale residential community near New York City. *“Originally, the Algonquin Indians were the first settlers in this fertile area of Pascack Valley. When the Dutch East India Company settled nearby Manhattan in the early 1600’s, they exchanged beads and other trinkets for the coveted Indian beaver pelt. Beaver hats were the rage in Europe at the time, especially among the English who were willing to pay top prices for quality pelts. As the beaver trade diminished, the settlers found new riches in New Amsterdam. Beyond the Palisades were rolling hills and verdant valleys that the early settlers transformed into a productive agrarian society. The Borough was incorporated in 1894 under the name of Woodcliff. The word “Lake” was appended to the name in 1910 to be the same as that of the Post Office. The form of government requires election of a Mayor (four year term) and six (6) Town Council (staggered three year terms) members.”* – From the Official Website of the Borough of Woodcliff Lake.

The fully developed community still boasts of heavily wooded single family lots with an estimated 60% tree canopy. The Borough has a population of ~5,700. The residential building sites were carved out of the original native hardwood forest. Many trees exceed 100 years of age and are entering the older age class for native New Jersey hardwoods. Many niches of trees are overstocked, leading to competition between individual trees for growing space.

Interestingly, the Borough does not have a ‘main street’ nor many sidewalks. A ‘shopping center’ is located on the former Tice Farms. Corporate entities include the North American Headquarters of BMW, the Headquarters of Perillo Tours and multi-tenant office buildings housing Eisai, Inc. and KPMG.

Woodcliff Lake is also the name of the reservoir that lies primarily within the Borough and covers about 5.5% or 125 acres. The reservoir, constructed in 1903, is owned and administrated by United Water, a private company. There are two recreational areas in the Borough; a 55 acres County owned park with pond, walking paths, tennis courts and playground; and the Borough owned Old Mill complex with swimming area, tennis courts and athletic fields.

The 2008 Woodcliff Lake Master Plan repeatedly states the high value the residents place on environmental and natural resource elements. Several of the seventeen goals in the Master Plan relate to the importance of sustaining a vibrant and robust community forest. Following this plan will bring focus to activities directed towards achievement of Master Plan goals.

After the indoor meeting between FTC and the WLSTC, several STC members escorted visiting consultants – Andy and Les Alpaugh on a brief tour of the Borough. STC members have many years of experience and knowledge concerning the shade trees, politics and historical facts in Woodcliff Lake. Highlights of the tour through the Borough include:

- The new arboretum is well thought out and will become a long standing legacy to Clay Bosch and others involved.
- The nursery has about 50 trees available for planting – Liza Simms/N.J. Tree Foundation crews helped plant the trees supplied by the WLSTC nursery.
- There are no serious insect or disease problems currently present. EAB has not been detected in Woodcliff Lake yet.
- There are very few sidewalks.
- Most of the residential area is heavily forested with mature native hardwoods.
- The tree canopy of ~60% is higher than most NJ municipalities.
- 'New' plantings are diverse – a good thing!
- The shopping center @ Tice Farm has many flowering trees and could benefit from some more native shade tree with potential to grow large and live a long time.
- Several significant and impressive corporate headquarters and businesses are located in the Borough.
- The Borough is fully developed.
- Many planted trees need elevation – removal of lower branches while maintaining 2/3rds of the tree in green and 1/3 of the tree clear bole. Plus, pruning to ensure trees have one central stem.
- The electric billboard near Old Mill Park is neat!

- Corporations in the Borough, BMW in particular, show that they value trees by their planting and care of trees on their properties. These corporations could be a source of funding for tree related programs as part of their community outreach.

5-Years of Progress:

Woodcliff Lake has a long-standing, effective shade tree program guided by many dedicated members of the Woodcliff Lake Shade Tree Commission (WLSTC). The first 5-year Community Forestry Management Plan (CFMP) was completed in 2013. The following achievements are noteworthy and correspond to the goals, objectives and implementation steps included in the 2013-2017 plan.

Completed Projects:

- ✓ Street Tree Inventory completed by Richview Consulting.
- ✓ Amendments to Ordinance Completed. Including “no net loss” policy, registration of tree companies, requirement of builders to plant street trees, Tree Farm/Nursery established.
- ✓ Arboretum established.
- ✓ CSIP grant obtained.
- ✓ Potential insect problem (EAB) addressed.
- ✓ Increased membership in STC.
- ✓ Continued ongoing projects such as: Tree City USA, Tree City USA Growth Award, Arbor Day Celebrations, newsletters and web-site.
- ✓ Secured funding for the 2018-2022 CFMP.
- ✓ Street tree plantings remained at ~ 40 per year.
- ✓ Over 1,300 trees were removed from private and public property in the past 5 years. Many as a result of storm damage and about 300 as a result of the Gables project. (~90% of removals were from private land; ~10% from public land/roadsides)
- ✓ Annual reports for 2013, 2014, 2015 & 2016 are excellent and included in Appendix #1.

During plan implementation, no serious problems were encountered that were not overcome. Passage of changes to local ordinances are never easy – yet by August 2016 the revisions were made to the Tree Ordinance. The unintended consequence of the passage of the revised ordinance is a significant increase in volunteer efforts of WLSTC members in the administration of the tree removal permit required for trees on private property. The struggle

between homeowners wanting to remove a tree (other than hazardous ones) and the overall goal of retaining tree canopy is on-going and can lead to contention if not handled with aplomb.

The path to completing a successful tree inventory was not easy to find! Starting with volunteers and school children seemed a good way to go, but the WLSTC soon concluded it was beyond the time limits for volunteers and the school children, while enthusiastic, did not have the knowledge/expertise to collect meaningful data. A donor, Marilyn Clark, paid Richview Consulting to complete the Woodcliff Lake Tree Inventory. Other challenges concerning funding and planting in the Arboretum and Nursery were met by WLSTC members accordingly.

Benefits of following a Community Forestry Management Plan in Woodcliff Lake are:

1. The recording of on-going Community Forestry work by the WLSTC.
2. A guide to future direction and program emphasis.
3. State approval of the WLSTC program with attendant liability protection.
4. A basis for funding via grants from the NJ Forest Service Community Forestry Program et.al.
5. A document to share with Borough residents explaining the scope and responsibilities of the WLSTC.

The current municipal tree resources have remained stable. No new storms have created significant damage and the Emerald Ash Borer (EAB) has not yet been found in the Borough. Major tree removals at The Gables and some remaining damage from the hurricanes Irene and Sandy have resulted in ~1,300 trees being removed in the past 5-years. What effect these removals have made to the % of tree canopy cover is hard to measure.

As stated in the Overview, many goals of the Master Plan are related to sustaining the character, condition and environmental benefits of the tree resource. Direct correlation between Master Plan goals and Community Forestry Management Plan goals may remain implicit, but are nonetheless important/critical.

IV. Community Forestry Program Administration

Responsibility and accountability for the management of the Borough's trees begins with the Mayor and Council, guided by the Shade Tree Committee (STC) and implemented by the STC and Department of Public Works (DPW). Private arborists, tree experts and utility companies engage in tree work which augments efforts made by DPW. Members of the Woodcliff Lake Shade Tree Committee are:

- Clayton Bosch, Chairman – *Volunteer, CORE trained*
- Marilyn Clark, Chairman Arbor Day/Tree City – *Volunteer, CORE trained*
- Angela Hayes, Council Representative – *Volunteer*
- Ray Blackton, DPW Supervisor – *Employee*
- Tom Invanovich, DPW – *Employee, CORE trained*
- Kathleen Bagley – *Volunteer, CORE trained*
- David Berger – *Volunteer*
- Carlo Disney – *Volunteer*
- Roberta Green – *Volunteer, CORE trained*
- Josephine Higgins – *Volunteer*
- Wiebke Hinsch – *Volunteer, CORE trained*
- Andy Lukac – *Volunteer*
- Kevin Metz – *Volunteer*
- Bert Taylor – *Volunteer*
- Ira Zucker - *Volunteer*

The WLSTC is a long-standing committee with a very good relationship with the Mayor and Council. STC activities are relayed to the Mayor and Council via a Council Liaison. The DPW Acting Supervisor is liaison to the STC. There is a written agreement between the DPW and the STC with the stated purpose “to review and understand how STC and DPW can work together

most effectively and harmoniously.” Both signatories of the agreement are STC members. The Borough should be proud of this agreement which is seldom seen in other municipalities.

Resident requests for tree service and response procedures are outlined in the DPW – Shade Tree Agreement included in Appendix #6.

Woodcliff Lake Administrative Flowchart:

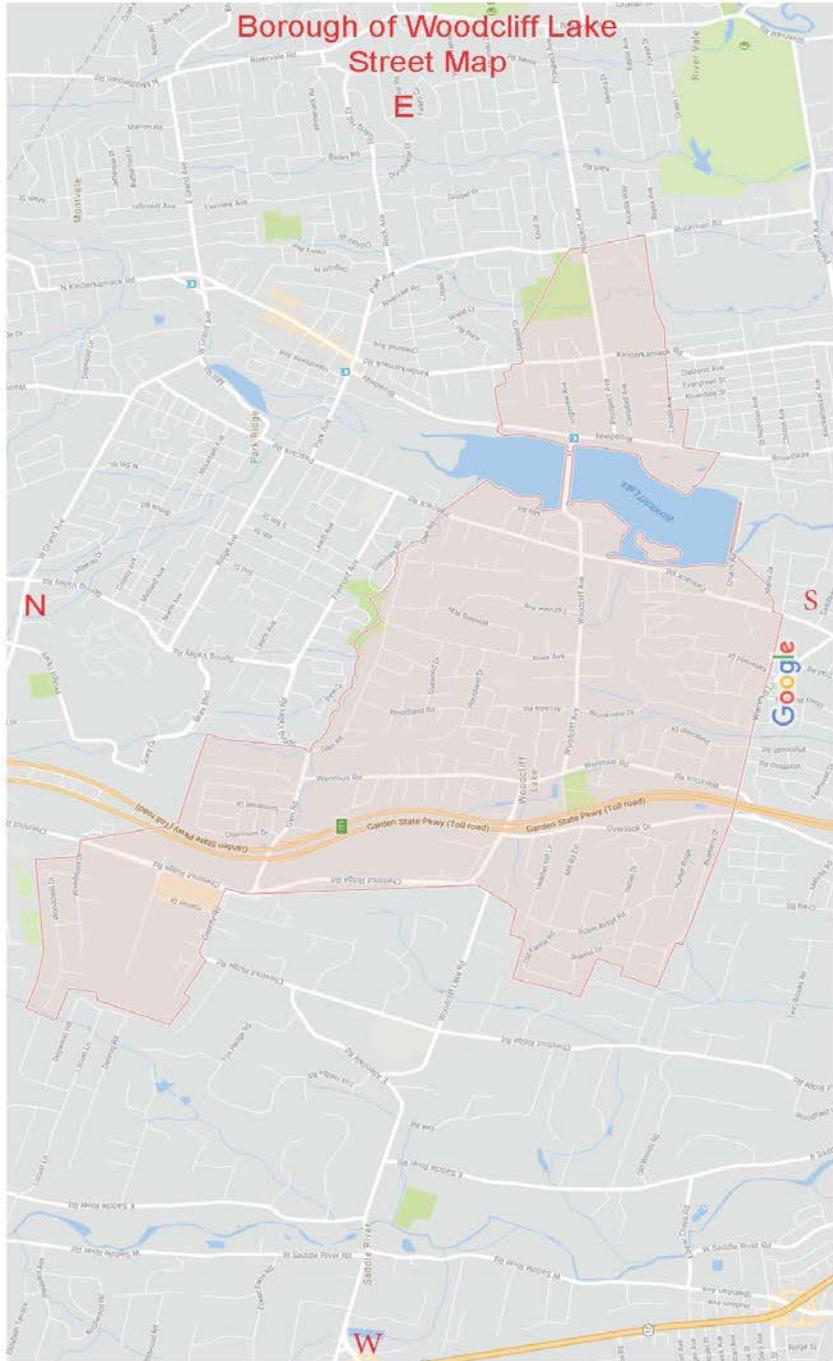


V. Borough of Woodcliff Lake Community Maps

Woodcliff Lake - Google Maps

Borough of Woodcliff Lake
Bergen County, New Jersey

8/29/2017



Map data ©2017 Google United States 1000 ft

1/1

<https://www.google.com/maps/place/Woodcliff+Lake,+NJ/@41.0289987,-74.0591779,14.66z/data=!4m5!3m4!1s0x89c2e56da4806dbd0x786a024766a6084616m2!3d41.0234304!4d-74.0665297>

Borough of Woodcliff Lake - 2015 Aerial Photo



NJ State Plane Feet, 1983

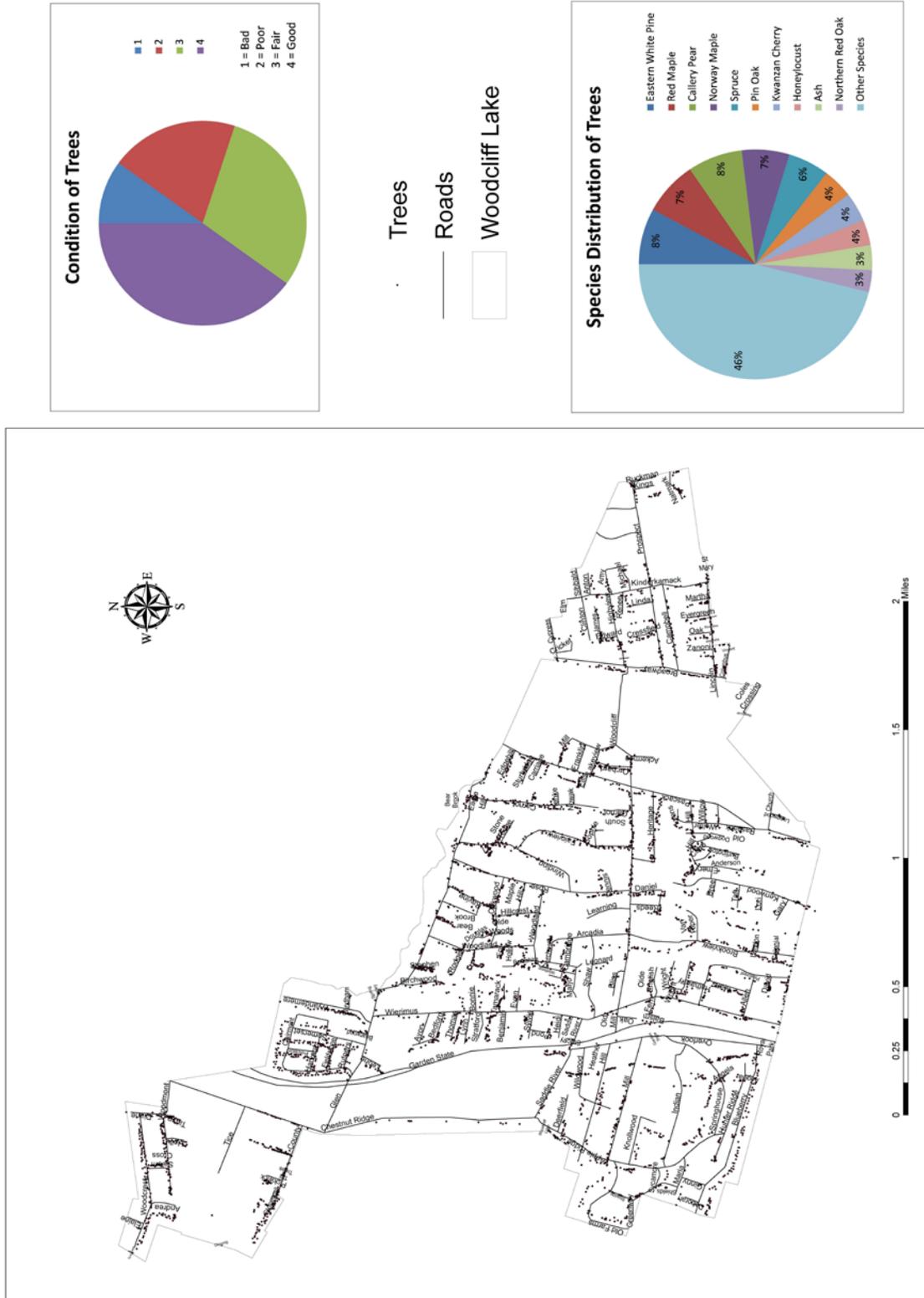
Prepared By: Fores/Tree Consultants
 September 18, 2017
 This map was produced using NJ Department of Environmental Protection Geographic Information Systems digital data, but this secondary product has not been verified by NJDEP and is not State-authorized.



Legend
 0.5 0.25 0 Miles
 Borough of Woodcliff Lake
 Municipal Boundary

Tree Location Map - Woodcliff Lake, New Jersey:

Tree Locations in Woodcliff Lake, NJ



Created by: Katherine Lewis; Created on: June 26, 2017; Data Source: NJGIN, NJGIS, GFS Unit

VI. Training Plan

Training is required by the State to retain “approved” status under the Community Forestry and Shade Tree Act; in addition some training topics are identified by STC members and/or supervising personnel in the Borough.

Required Training:

CORE training is required by the New Jersey Shade Tree and Community Forestry Act for municipalities seeking approved status under the Act. The purpose of CORE training is to familiarize persons with the background of community forestry and shade tree commissions, the legal aspects of managing trees, recognition of hazardous tree conditions and state planning and implementation assistance. To gain and retain approved status a municipality must have at least two persons CORE trained; one volunteer (usually the STC chairperson) and one municipal employee (ideally someone from public works that is responsible for trees). The WLSTC has six CORE trained persons – Clay Bosch, Marilyn Clark, Robert Green, Kathleen Bagley and Wiebke Hinsch are volunteers while Tom Ivanovich is a municipal employee in DPW. Marilyn Clark and Tom Ivanovich are the primary CORE trained volunteer and employee. It is the intent of the Borough to maintain at least the minimum required persons CORE trained and obtain the required number of CEU’s during the plan period. Other STC members will be encouraged to attend the Shade Tree Federation meeting this Fall.

In addition to CORE training, there is a continuing education requirement of 8 Continuing Education Units (CEU’s) per year. Continuing education is not limited to CORE trained persons and any individual may obtain CEU’s for the Borough. 49 CEU credits were earned in 2016 by 9 different individuals. These credits can most easily be obtained by attending the NJ Shade Tree Federation meeting held in October each year. Training in 2016 was provided to Woodcliff Lakes STC members and DPW employees by Bartlett on EAB and Pruning, Bergen County on EAB, the ACRT Line Clearance Course and NJSTF courses. Notice of upcoming training opportunities can be found at <http://www.nj.gov/dep/parksandforests/forest/community/act.html>.

Other Training:

Data collection for the completion of the Borough's 1st tree inventory has been completed. Utilization of the data will require the WLSTC volunteers to become informed regarding the various i-Tree application and acquire the skill to access and manipulate the i-Tree data and reports. Training on i-Tree can be found online at <http://www.itreetools.org/resources/training/> and is often a topic at the NJ Shade Tree Federation Meeting.

Shade Tree Committee members and DPW employees have a good record and interest in continuing education opportunities. Over the past few years, STC and DPW personnel have attended workshops at Bergen County Community College regarding Emerald Ash Borer, the NJ Shade Tree Federation Meeting's CORE and Inventory training, the Bartlett EAB seminar, BCC pruning seminar and ACRT Line Clearance training. Workshops attended/held have also included the Dumont Shade Tree Commission, Woodcliff Lake Pruning Workshop and a workshop in April 2013 by William Comery, CFMP professor emeritus.

These workshops and training experiences have increased the knowledge and expertise of the participants and has enabled the WLSTC volunteers to inform Borough residents and facilitate an effective Shade Tree Program. Participation in similar training opportunities and frequency of workshops will continue through the next 5-years and beyond.

VII. Public Education, Awareness and Outreach

This element is primarily the responsibility of the WLSTC. Keeping Borough residents and the Mayor and Council informed of planned activities and accomplishments will continue to form the underpinnings of success. WLSTC members appreciate the value of education, increasing awareness and the necessity of outreach. A summary of efforts follows:

Ongoing Activities and Programs:

Arbor Day:

An Arbor Day proclamation and celebration takes place each year. The celebration is usually held at Woodcliff Lake Elementary and Middle Schools and includes a tree planting ceremony. Project Learning Tree segments are included in the activities.

Oldest Tree Contest:

In 2012, school children were challenged to find the oldest tree in the Borough. Awards were presented at the annual Arbor Day event. The oldest tree was reported to be a 300 year old horse chestnut. The ongoing search for the oldest tree has been expanded to the Senior Center. A 238 year old White Oak located by the reservoir was discovered. Unfortunately it had to be taken down because of its very poor condition.

Tree City, USA:

In 2016, Woodcliff Lake was awarded its 10th year of participation and received the Growth Award for the 4th time. Tree City, USA is an award given by the Arbor Day Foundation in cooperation with and approved by the NJ State Forester. Application to the program must be made annually.

Borough Newsletter and Website:

The WLSTC has an article in each issue of the Borough newsletter which is published in the spring and fall. The Borough website lists the WLSTC and has information on STC members, tree ordinances, a brochure for tree planting, Arbor Day announcements and other tree related subjects.

Electronic Gateway Sign:

A novel method of publicizing town events is an electronic sign which displays information of importance to residents. The WLSTC posts information about tree availability, Arbor Day Programs and other tree related information. A most unique feature!

Science Fair:

The WLSTC participates in the science fair at the Woodcliff Lake Middle School.

Project Learning Tree:

The STC acknowledges the importance of helping young students learn more about trees and the environment. One program helping to expand and influence young minds is Project Learning Tree. The PLT program is an international environmental education program that is crafted to meet state and national education standards. PLT provides the tools educators need to bring the environment into their classrooms and their students into the environment. The PreK-8 activity guide contains 96 multi-disciplinary activities, each activity is carefully designed for specific grade levels and learning objectives. Recently, the PLT guide has been correlated to the NJ Core Curriculum Content Standards required by the New Jersey Department of Education. The WLSTC will encourage local schools to send some of their teachers to PLT workshops and to develop their own PLT Trunk which is loaded with many teaching aids, books, and videos. More information can be obtained from the NJ Forest Service website at: <http://www.nj.gov/dep/parksandforests/forest/plt.html>

In 2016, faculty member Julie Ogdon began utilization of PLT at the annual Arbor Day Celebration.

Arboretum and Nursery:

The Arboretum and Nursery have been established as envisioned by the STC in the first CFMP. The Arboretum has the potential to become an important and beautiful location to observe various species of trees. Twenty some trees have already been planted along with appropriate name plates. Acquiring trees, planting and watering and maintenance requires above average dedication and perseverance – certainly a tribute to those doing all the hard work.

Local Businesses and Corporations:

Utilization of the ‘social consciousness’ of local businesses and corporation continues to be an objective of the WLSTC. Focus will turn to defining a number of specific projects and/or programs needing PR and financial support for presentation to local business leaders.

This element was included in the previous plan – yet unfulfilled, but viewed by the WLSTC as a very worthwhile pursuit.

Woodcliff Lake Day:

WLSTC member man a table at this event each year and hand out small trees and brochures. Special emphasis in 2018 and beyond will focus on Emerald Ash Borer and information gleaned from the tree inventory as well as other topics including mulching, pruning small trees, suitable trees for planting, request forms for tree planting, the “new” tree ordinance, etc.

VIII. Statement of Tree Budget

The Borough of Woodcliff Lake is like many other small towns with limited resources in Bergen County where trees and tree care do not always compete well with demands for other services. Focus in normal years is on tree replacement plantings and pruning/take down of hazardous trees. During the previous plan, focus and funding were directed towards completing tree inventory work, establishing the arboretum and tree nursery, training, tree planting and education and outreach items. Anticipated budget items for this period include hazard reduction based upon inventory results, tree planting, training and the potential mitigation of EAB impacts to ash trees. Details of the 2016 and current 2017 Municipal Tree Budget can be found in Appendix #7.



**BOROUGH OF WOODCLIFF LAKE
OFFICE OF THE ADMINISTRATOR**

MEMORANDUM

DATE: December 15, 2016
 TO: Marilyn Clark
 FROM: Tomas J. Padilla, Borough Administrator
 RE: Community Forestry Expenditures

Marilyn,

As requested here is a breakdown as of November 30, 2016.

DPW Labor	\$ 15,000.00
Stump Removal	\$ 2,400.00
We do not anticipate any cost for December 2016, but if we do, will advise you.	
Administration Time	\$ 1,000.00
Materials	
Trees/Shrubs – purchase & installation	\$ 12,742.00
Leaf/Wood Waste Processing	
Log Disposal	\$ 900.00
	\$ 0 – Est. for Dec 2016
Leaf/Brush Disposal/Recycle to date	\$ 47,142.85
	\$ 30,000 – Est. for Dec 2016
Total to date:	\$ 79,184.85
Per Capita Cost	\$ 13.60
Total if we include Dec'16 estimates	\$ 109,184.85
Per Capita Cost	\$ 18.76

Per capita computed using population of 5,820 for the Borough.

IX. Statement of Plan Implementation

Much of the Borough of Woodcliff Lake Community Forestry Program will focus on continuing time-proven activities. The WLSTC has an outstanding record of accomplishment spanning many years. The current assemblage of members combines long experience, expertise, enthusiasm and business acumen.

Ongoing annual program objectives include the training, education, awareness and outreach activities defined in Sections VI & VII and those mentioned in the Overview. The remainder of this section will focus on the 4 required categories regarding:

- Tree Inventory and Assessment
- Tree Hazard Identification and Management
- Tree Planting
- Tree Maintenance and Care

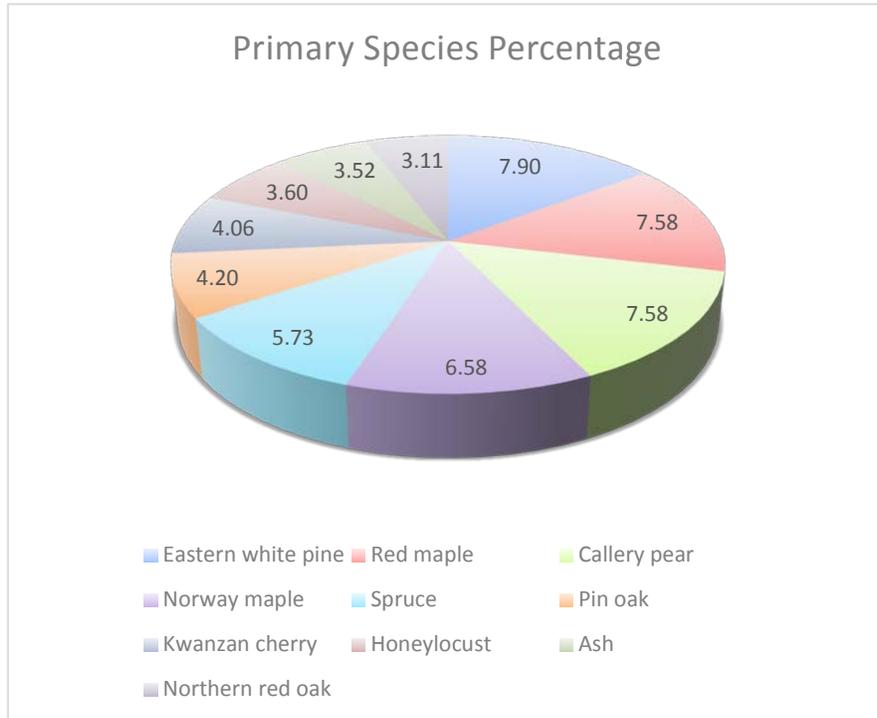
Tree Inventory and Assessment:

Woodcliff Lake completed its i-Tree tree inventory in 2015-2016 with i-Tree reports completed in June 2017 (see Appendix #5). The inventory was completed by Richview Consulting, Rich Wolowitz, N.J. Approved Forester and N.J. Certified Tree Expert. Credit for most of the following charts, data and tables is due to Richview Consulting's work on the inventory. The data collected was entered into i-Tree enabling the Woodcliff Lake STC to query the data and generate reports needed to support decision making on maintenance, hazard removals and re-planting needs. These reports and location data will be useful during current and future insect and disease threats such as Emerald Ash Borer to allow the Borough to allocate limited resources to address the most pressing problems first.

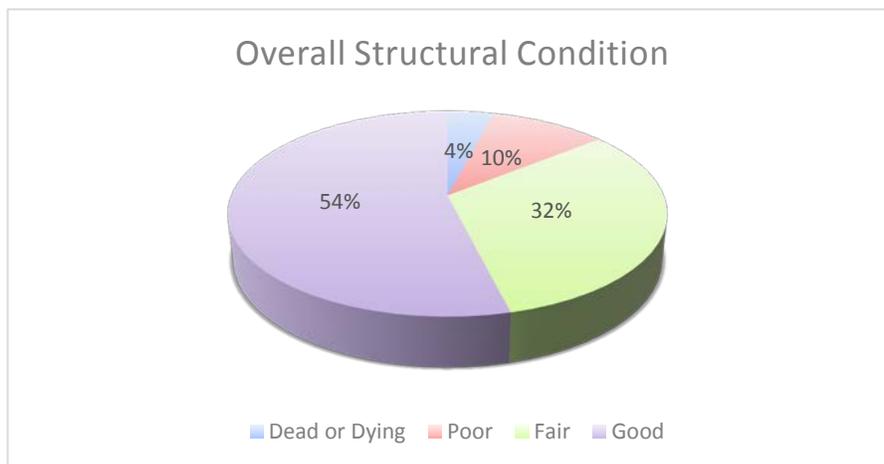
The inventory includes all trees within 10' from the curb/roadside. 4116 trees were recorded. Summary of the data and several i-Tree charts are included in Appendix #5. Noteworthy observations of the data by ForesTree Consultants are:

1. A great diversity of approximately 90 tree species (see Summary List in Appendix #5).

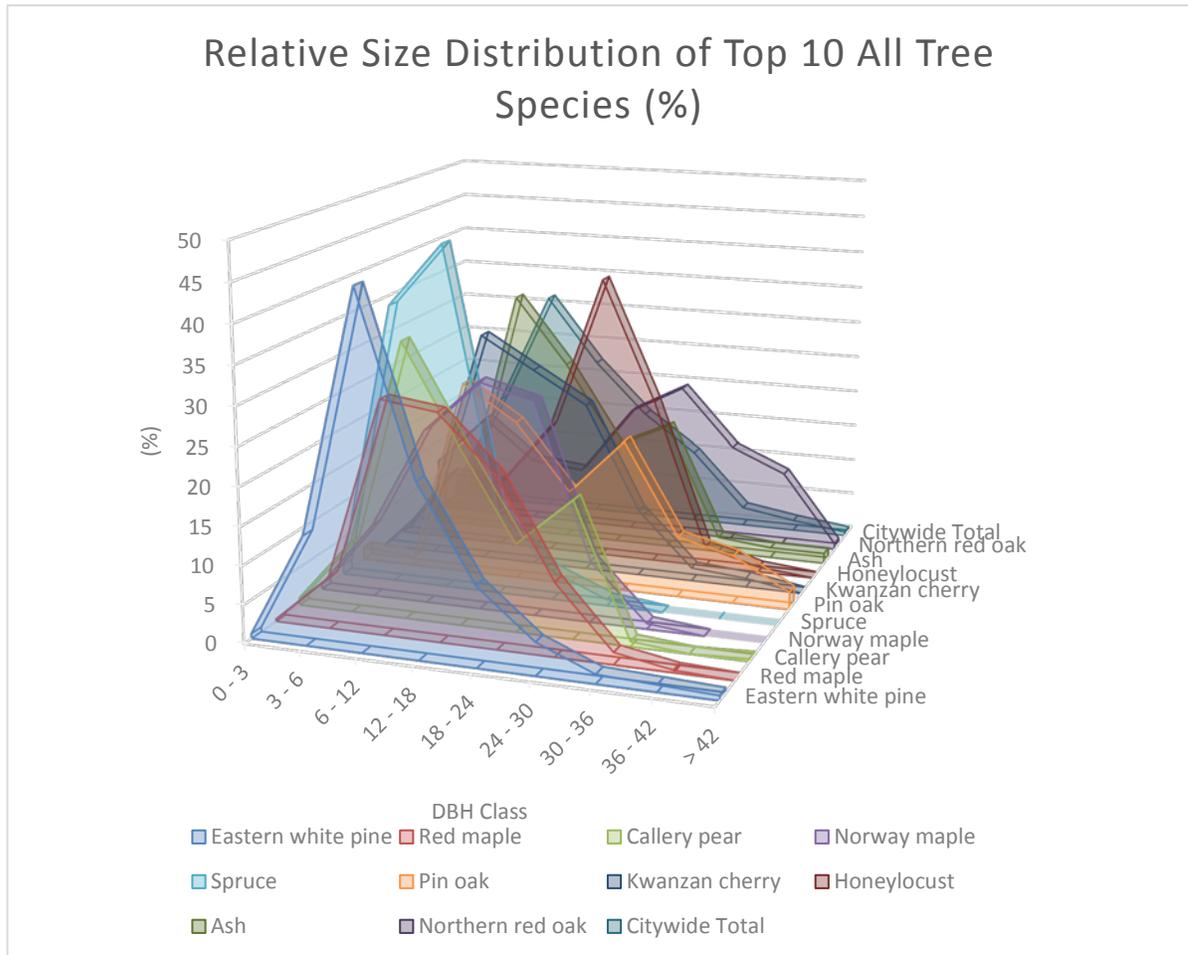
2. Four species (Eastern White Pine – 7.9%, red maple 7.58%, Callery pear 7.58%, and Norway Maple 6.58%) equal 30% of the total. Both Norway maple and Callery pear are notorious. White pine provide excellent winter greenery and ecosystem services, but the tree is not notable as a roadside shade tree. Red maple has proven to be an excellent shade tree in New Jersey.



3. Ash comprises only 3.52% of the total;
 - a. 145 ash trees were recorded with 39 dead or dying.
4. The inventory reveals a rather robust tree population with expected levels of hazardous trees. 86% of the tree population was rated 'Good' or 'Fair'. See i-Tree summary data in Appendix #5.



- The tree population in Woodcliff Lake is relatively young to middle aged with 84% of the trees having a DBH ranging from 6-24". There are fewer "large old" street trees.



Specific Actions during the next 5-years include:

- Continue to examine the data collected via i-Tree and review the population summary of all trees provide by Richview Consulting.
- Continue to up-date and keep current the inventory data by recording trees planted, trees removed and/or hazards pruned.

Tree Hazard Identification and Management:

The Richview Consulting inventory report recorded the condition of each of the 4116 trees tallied. The trees were classified in to four categories – good, fair, poor and dead or dying. Of the total 86% were given a rating of ‘Good’ or ‘Fair’ with the remaining trees rated 10% poor and 4% dead/dying. The foregoing charts were created from i-Tree data and are useful in both decision making and during tree work to focus

limited resources on the greatest needs. This information has been transmitted to the Mayor and Council and the Department of Public Works for consideration and action.

Former practices of hazard tree identification by DPW employees, WLSTC members and residents will continue. Following any significant weather event a systematic 'windshield' survey will be undertaken to assess damage and prioritize response as in the past. It may be necessary to take a closer look at trees ranked as dead/dying (red category) along with evaluating and monitoring the condition of all ash trees in the face of statewide threat from Emerald Ash Borer*.

Specific actions during the next 5-years include:

1. Keeping the inventory up-to-date concerning hazardous tree conditions by recording prunings and removals as well as results of storm related 'windshield surveys' and changes to the condition of the ash trees.
2. Creating an on-going action plan addressing hazardous trees by examining high risk trees identified by the inventory data and creating a priority listing for removals, pruning and possibly EAB insecticide treatment of specimen trees.
3. Continue to administer the elements of the amended Tree Ordinance requiring owners of trees on private property to obtain a permit prior to tree removal**.

* The Emerald Ash Borer may become an issue of primary concern during this plan period requiring considerable adaptive management and unusual budgetary demands. See the following two web sources for further information on EAB:

NJ Department of Agriculture:

<http://www.nj.gov/agriculture/divisions/pi/prog/emeraldashborer.html>

Emerald Ash Borer Information Network:

<http://www.emeraldashborer.info/index.php>

** Over 1,300 trees were reported as removed from the Woodcliff Lake tree canopy since 2013. Most (~90%) were from private property. The permit process has controlled unnecessary tree loss but has created a significant workload for volunteer WLSTC members.

Tree Planting:

One of the key elements of any Community Forestry Management Program is tree planting. Woodcliff Lake is fortunate to have many trees along its streets and many heavily wooded homesites. The Borough plants 30-40 new trees each spring. As the cost of planting a 3-4" caliper tree approaches \$350-\$400 per tree the WLSTC felt it

prudent to seek alternatives where appropriate. An alternative (and one used by our forefathers) is to plant 5-6' whips. Whips/liners are available at a cost of \$15-\$25 each FOB the nursery. The whips must be protected from vandalism and accidental damage but the long-term results of planting whips could be significant – many more trees at less cost! In an effort to reduce the cost of planting stock and increase survivability of the whips the WLSTC has established a Tree Nursery with about 50 whips/trees growing pot-in-pot for future out-planting in the community. Lisa Simm's group, the N.J. Tree Foundation, has been assisting with plantings and the growing of trees in the pot-in-pot nursery has proven an realistic undertaking.

Current arboricultural thought is to have a diverse tree composition, thus thwarting insect outbreaks, diseases and monotony in the landscape. References such as, 'Trees for New Jersey Streets' by the New Jersey Shade Tree Federation can help inform persons about species selection and diversity. Understanding and implementing the concept of "planting the right tree in the right place" will help ensure a long-lived, healthy and robust community forest. Sometimes the best place to plant a new tree is next to the public right-of-way on private property. To date the Borough's policy is to plant a tree only on municipally controlled land. Trees are planted at locations requested by private property owners on adjacent municipal roadsides.

During the past 5-years, the WLSTC has also begun work planting trees in an arboretum. Approximately 20 trees have been planted thus far with ID markers to inform visitors to the park.

Specific actions during the next 5-years include:

1. Continuing tree planting along municipal roadways at the rate of at least 40-50 per year.
2. Continue to add to arboretum plantings. Seek local business and corporate sponsorship for arboretum plantings. Consider a 'Memorial Tree Fund?'
3. Determine next steps concerning the nursery. Nursery work now falls primarily to a single person. Additional manpower would ease the burden and help to continue this proven effective practice.
4. Continue to advocate for appropriate canopy cover via private property plantings – provide list of desirable trees, planting methods, nursery/supplier locations, etc.

Tree Care and Maintenance:

Information and reports from the inventory and assessment will help define and focus the need for maintenance. Applied maintenance throughout a tree's lifetime will extend the life and utility of the community forest. During the first 10-years after planting trees must be checked for single central stems and pruned as necessary. Elevation can begin in 5-6 years and should extend until the first 16' of trunk is clear. It is necessary to remember the 1/3 – 2/3 rule stating that at least 2/3 of the tree should remain in green with a maximum of 1/3 of the green removed at any one time. Crossing limbs, limbs with poor angle of attachment and correct scaffolding according to species are all ongoing challenges to maintaining a tree.

It is best to identify and make pruning cuts when the limbs to be cut are small. As trees become larger it is possible to remove larger limbs. However, even large trees have limits. Recommendations are to remove limbs prior to their reaching 3-4" in diameter to help avoid creating a defect. Cutting 12" limbs from large trees is sometimes necessary but most assuredly will result in a defect over the next 10-20 years. It is hard to assign years of life added by proper pruning throughout a tree's life as a shade tree, but the author suggests that increases of 40-100 years are common. Proper tree maintenance is a vicious circle which requires unusual vision and long-term dedication over generations to achieve. Hopefully, the adoption of this plan and the receipt of CSIP funding from the State will help.

Specific actions for this plan period include:

1. Continue demonstrations of pruning small trees for homeowners. Include proper watering (August-October) and proper mulching techniques.
2. Continue to encourage DPW employees to become increasingly informed regarding hazardous tree identification, small tree pruning, large tree limb removal/pruning, deadwood removals, mulching and EAB detection.
3. Visit each tree planted in the past 10-years to prune for the creation of a single central stem and to remove/elevate lower branches to the standard of 1/3 green – 2/3 clear bole up to 16'.

Implementation Activities by Year:

The implementation of any plan is dependent upon many factors. It is unlikely that the exact path to success can be laid out for any 5-year period. Experience has proven that unforeseen circumstances, opportunities, weather and/or insect and disease outbreaks will change program focus from time-to-time – almost without fail. Many tasks in this plan are ongoing as part of Woodcliff Lake’s evolving and successful Community Forestry program as expressed in the Overview Section, plus sections VI and VII addressing training, education and outreach activities.

2018 –

This year, and in subsequent years during this plan period, considerable time and effort will be expended attending to the activities discussed in Sections VI and VII. Special attention will be given to perusal and understanding of the “new” i-Tree tree inventory data. Creating i-Tree reports, refining the tree map showing locations with attendant condition classes and providing suggestions for priority tree maintenance work based on the inventory data will be necessary. Additional major time commitments from WLSTC members will be required to administer the amended Tree Ordinance as well as the Arboretum and Tree Nursery. If not enough, the “ground work” in support of elevating the status of the committee to that of a commission will begin.

2019-

Once again the on-going elements of WLSTC work continues. Refinement of assessments based on the inventory will continue to be made. Some ‘new experiments’ with planting tree whips will be tried (order whips November-December 2018). A written recommendation to upgrade the committee to a commission will be completed and submitted to the Mayor and Council – preceded by contacting individual committee members via the STC liaison.

2020 –

On-going elements of the WLSTC continue to challenge the time and energy of the volunteer STC. Hopefully not! – But by now the effects of Emerald Ash Borer most probably will

be apparent and will require additional resources (\$) to be expended on both public and private property. The role of the WLSTC will be to help keep residents informed regarding EAB, keep emphasis on the utilization of licensed tree experts to treat for and/or remove trees, and help DPW determine priorities for treatment and/or removal. If not before, the WLSTC could issue its recommended policy towards EAB treatment versus removal of ash trees. The inventory could be used to inform budgetary concerns. For example: The inventory shows about 65 ash trees on municipal roads exceed 24" DBH – assuming a removal cost of \$1,500 - \$2,000 per tree would give some idea of the funds that may be necessary for removal.

2021 –

Attending to ongoing training, outreach and administrative functions of the WLSTC continue. Arboretum plantings will be supported by funding from local business and corporations as a result of WLSTC solicitation. Tree planting will increase in response to ash removals and the success of planting whips at reduced cost. This year should see the elevation of the committee to a commission.

2022 –

The work of the WLSTC continues following successful accomplishment of on-going programs. Work will continue as determined by the EAB and unforeseen opportunities. Levels of tree planting will remain high at 50-70 per year. By March the WLSTC will begin preparing for the next iteration of their CFMP by brainstorming “new” and on-going elements for the next plan.

Schedule of Work

Borough of Woodcliff Lake Community Forestry Management Plan 2018-2022

Ongoing Activities (annually):

1. Hold regular agenda driven STC meetings (see Goal #1).
2. Continue established program elements:
 - a. Administer amended Tree Removal ordinance.
 - b. Arbor Day in the Elementary and Middle Schools, plus oldest/biggest tree contest.
 - c. Tree Planting, 30-70 trees per year.
 - d. Hazard tree identification and Response
 - e. Maintenance of causeway pear trees.
 - f. Response to resident requests, recycling limbs and Christmas trees.
 - g. Retain Certified Tree Expert as part of Borough's Emergency Management Plan
 - h. Tree City, USA – application annually and awards
 - i. Contributions to Borough website and newsletter
3. Seek out grants to help implement this plan
4. Maintain membership in the New Jersey Shade Tree Federation and attend annual meeting.
5. Maintain CORE training requirements of a minimum of 2 CORE trained persons(1 volunteer and 1 employee)
6. Maintain Continuing Education Units at 8 per year
7. File annual report to the State Community Forestry Program at year's end

NOTE: Ongoing work list includes activities/topics in the Training & Education/Awareness/Outreach sections.

Specific Activity Schedule by Year

<u>Year</u>	<u>Description of Work</u>
2018	<ul style="list-style-type: none"><input type="checkbox"/> Appoint and train designated i-Tree specialist to maintain tree inventory and enter 'new' and updated information to keep inventory up-to-date.<input type="checkbox"/> Re-visit poor and dead/dying trees to verify corrective action required.<input type="checkbox"/> Prepare reports from i-Tree for presentation to the Mayor and Council and DPW. Reports could include:<ul style="list-style-type: none"><input type="checkbox"/> Trees ranked 'dead/dying' and poor.<input type="checkbox"/> Larger trees with defect.<input type="checkbox"/> Locations, size and number of ash trees susceptible to EAB attack.<input type="checkbox"/> Recommendations for removal or pruning ranked by level of need/hazard.<input type="checkbox"/> Utilize above reports as basis for a CSIP grant application to the NJ Forest Service.<input type="checkbox"/> Prepare hazard pruning/removal plan of work based upon grant or other funding for bids by NJ Certified Tree Expert Company.<input type="checkbox"/> Make data, maps and assessment report available on the website for Borough residents.<input type="checkbox"/> Maintain arboretum and Tree Nursery.<input type="checkbox"/> Plant trees in Spring.<input type="checkbox"/> Attend to ongoing activities list.
2019	<ul style="list-style-type: none"><input type="checkbox"/> Implement pruning and removal plan as per accepted bid above.<input type="checkbox"/> Update i-Tree inventory as work progresses and based upon any 'windshield surveys' conducted.<input type="checkbox"/> Monitor condition of ash, record findings in i-Tree and report arrival of EAB if found.<input type="checkbox"/> Continue planning for and implement EAB measures as needed.<input type="checkbox"/> Plant trees in Spring. Seek local business and corporate support for tree planting on public roads and/or the arboretum. Consider developing a Memorial Tree Program.<input type="checkbox"/> Maintain arboretum and Tree Nursery.<input type="checkbox"/> Attend to ongoing activities list.
2020	<ul style="list-style-type: none"><input type="checkbox"/> Update inventory and assessment reports based on new data.<input type="checkbox"/> Distribute updated assessment report to Mayor and Council with recommendations and estimates for continued hazard reduction and EAB damage control.

- Develop specific action plans for EAB damage control, tree planting, hazard tree removals, and tree maintenance (elevation, single stem pruning, deadwood removal, etc.) based on continually updated Inventory and Assessment data.
- Utilize action plans and inventory data as basis for CSIP grants to the New Jersey Forest Service or other grant programs that may become available for EAB mitigation.
- Prepare bid requests for work outlined above based upon available funding. Bids to NJ Certified Tree Experts.
- Monitor condition of ash.
- Plant trees in Spring. Seek local business and corporate support for tree planting on public roads and/or the arboretum.
- Maintain arboretum, Memorial Tree Program and Tree Nursery.
- Attend to ongoing activities list.

2021

- Update inventory and assessment reports based on records of removals, planting and pruning.
- Distribute updated assessment report to Mayor and Council with recommendations and estimates for continued hazard reduction and EAB damage control.
- Develop specific action plans for EAB damage control, tree planting, hazard tree removals, and tree maintenance (elevation, single stem pruning, deadwood removal, etc.) based on continually updated Inventory and Assessment data.
- Utilize action plans and inventory data as basis for CSIP grants to the New Jersey Forest Service or other grant programs that may become available for EAB mitigation.
- Prepare bid requests for work outlined above based upon available funding. Bids to NJ Certified Tree Experts.
- Monitor condition of ash.
- Plant trees in Spring. Seek local business and corporate support for tree planting on public roads and/or the arboretum.
- Maintain arboretum, Memorial Tree Program and Tree Nursery.
- Attend to ongoing activities list.

2022

- Update inventory and assessment reports based on records of removals, planting and pruning.
- Distribute updated assessment report to Mayor and Council with recommendations and estimates for continued hazard reduction and EAB damage control.
- Develop specific action plans for EAB damage control, tree planting, hazard tree removals, and tree maintenance (elevation, single stem pruning, deadwood removal, etc.) based on continually updated Inventory and Assessment data.

- Utilize action plans and inventory data as basis for CSIP grants to the New Jersey Forest Service or other grant programs that may become available for EAB mitigation.
- Prepare bid requests for work outlined above based upon available funding. Bids to NJ Certified Tree Experts.
- Plant trees in Spring. Seek local business and corporate support for tree planting on public roads and/or the arboretum.
- Maintain arboretum, Memorial Tree Program and Tree Nursery.
- Attend to ongoing activities list.

X. Community Stewardship Incentive Program Practices

Upon approval of this plan and completion of the core training requirements, the Borough of Woodcliff Lake will be qualified to apply for Community Stewardship Incentive Program (CSIP) grants to help offset the cost of implementing this plan. The following is an index of CSIP practices listed in this plan and summary of applicability. Additional or revised grants may become apparent as plan implementation progresses.

CSIP #1 – Training

Pages 3, 17-18: See Goal #1 and Training Section. A summary of this practice is included in the training section of this plan and is included in the first goal of this plan.

CSIP #2 – Community Forestry Ordinance Establishment

Pages Appendix #2, #3, #4: The three existing ordinances are included in the appendix. Ordinances were amended under the previous plan.

CSIP #3 – Public Education and Awareness

Pages 5, 19-21: See Goal #5 and Section VII.

CSIP #4 – Arbor Day

Pages 5, 19: See Goal #5 and Section VII.

CSIP #5 – Tree Inventory

Pages 4, 23-30 and Throughout: See Goal #2 and Section IX & Schedule of Work.

Tree Inventory maintenance and use of the inventory data are a primary Goals in this plan.

CSIP #6 – Hazard Tree Assessment

Pages 4, 23-30: See Goal #2 and Section IX.

CSIP # 7 – Storm Damage Assessment

Pages 4, 23-30: See Goal #2 & Section IX. Storm Damage Assessment is mentioned as part of the Hazard Tree Management section. Windshield assessments are routinely made following storm events.

CSIP #8 – Tree Maintenance and Removals

Pages 4, 20-30: See Goal #3 & Section IX.

CSIP #9 – Insect and Disease Management

Pages 4, 20-30: See Goal #3 & #4 and Section IX. EAB is the primary threat at this time. EAB has not been detected in Woodcliff Lake as of 2017. Monitoring for this pest and mitigation following its arrival may become a major focus during this 5-year period.

CSIP #10 – Wildfire Protection

Wildfire is not addressed in this plan.

CSIP #11 – Tree Planting

Page 4-5, 26-27: See Goal #4, Overview, Ongoing Activities and Implementation section.

CSIP # 12 – Tree Recycling

Page 5, 31: See Goal #4 & Ongoing Activities. The Borough collects leaves & twigs; composts and makes mulch available to residents.

CSIP #13 – Sidewalk Maintenance Program

There are very few sidewalks in Woodcliff Lake. No problems where noted.

CSIP #14 – Storm Water Management

Appendix. Mention of Storm Water Management is noted in one of the ordinances and the Master Plan in relation to the value of trees on steep slopes for erosion control and environmental values.

CSIP #15 – Other

None.

XI. Appendix

1. Annual Reports to N.J. Forest Service
2. Ordinance - Chapter 355: Trees amended by Ordinance 16-13
3. Ordinance – Chapter 70: Shade Tree Committee amended by Ordinance 16-13
4. Amending Ordinance 16-13
5. i-Tree Inventory Selected Reports and Graphs
6. DPW Agreement with Shade Tree Committee
7. 2017 Municipal Tree Budget Detail

Use of Information:

The content of this Community Forestry Management Plan has been purchased by the subject municipality to guide a 5-year effort to manage its shade trees and publicly owned forests. The content, structure and organization remains the property of the authors, ForesTree Consultants, and may not be infringed upon by copying, adapting or sharing for use by another municipality or in future plans by the subject municipality without the expressed written consent of ForesTree Consultants.

Appendix #1:

Annual Reports to N.J. Forest Service



2013

BOROUGH OF WOODCLIFF LAKE

188 PASCACK ROAD, P.O. BOX 8619, WOODCLIFF LAKE, NEW JERSEY 07677

JEFFREY R. GOLDSMITH, Mayor
THOMAS RICHARDS, Borough Administrator

201-391-4977
Fax 201-391-8830

February 4, 2014

Community Forestry Program
Alec McCartney, Forester
501 East State Street
PO Box 420
Trenton, NJ 08625

Re: Woodcliff Lake New Jersey Community Forestry Management Plan

Dear Alec:

It is my pleasure to send to you our first Annual Accomplishment Report for our
Community Forestry Management Plan.

Should you need clarification of anything, I can be reached at 201-391-4720 and
mjjclark@yahoo.com Thanks so much for all the support you give us.

Sincerely,

Marilyn J. Clark
Chairman, Arbor Day/Tree City USA

M
Encls

New Jersey Shade Tree and Community Forestry Assistance Act Annual Accomplishment Report

ANNUAL ACCOMPLISHMENT REPORT FORM

Woodcliff Lake

Municipality Bergen

County _____

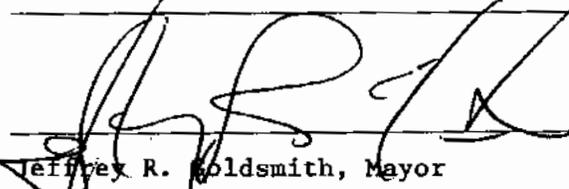
Address 188 Pascack Road
Woodcliff Lake, NJ 07677

Contact Name and Title Marilyn J. Clark, Chairman, Arbor Day/Tree City WSA

Phone # 201-391-4720
mjjclark@yahoo.com

Fax # and E-mail _____

Organization Name Woodcliff Lake Shade Tree Committee

Mayor/County Freeholder's Signature 
Jeffrey R. Goldsmith, Mayor

Date of Management Plan Approval Approved 5/24/13 - revised approval 9/3/13

Time Period Covered in Management Plan Five-year plan - 2013-2017

Date of Annual Accomplishment Report Submission February 4, 2014

Accomplishment Report for Calendar Year 2013

***PLEASE INCLUDE THIS FORM AS THE COVER PAGE TO YOUR ANNUAL ACCOMPLISHMENT REPORT**

To Submit Report:
Community Forestry Program
Attn: Todd Wyckoff
Mail Code: 501-04
P.O. Box 420
Trenton, NJ 08625

New Jersey Shade Tree and Community Forestry Assistance Act **Annual Accomplishment Report**

COMMUNITY FORESTRY PROGRAM ADMINISTRATION

- The composition of our Shade Tree Committee has remained the same.

TRAINING and PROFESSIONAL DEVELOPMENT

- We had two members of our committee, Marilyn Clark and Wiebke Hinsch, each earn 5 ½ CEU's by attending the NJ Shade Tree Federation 88th Annual Conference. In addition, Wiebke Hinsch earned her CORE credits at the same conference. Dave Antoine, DPW Supervisor, and Marilyn Clark, committee members, still have their CORE credits.
- William R. Comery, LLC, licensed tree expert and a consultant for Woodcliff Lake, did a workshop for us on March 25, 2013. Also, three members of the Shade Tree Committee attended a workshop sponsored by the Emerson Shade Tree Commission on July 22nd, 2013.

PUBLIC EDUCATION/AWARENESS/OUTREACH

- June 22, 2013 was Woodcliff Lake Day and the half the members of the Shade Tree Committee manned a table at the event. We gave away small trees and also brochures, *What Tree is That*, *Finding Root Flare Before Planting* and *Volcanoes Killing Trees in NJ*.
- We also developed a brochure for our Middle School students to use to help us take a tree inventory of street trees. We asked each Middle School student to take an inventory of the street trees on their property.

STATEMENT OF TREE BUDGET

- The expenditures for 2013 are attached. We anticipate a much lower budget for 2014, because the costs and expenses due to Hurricane Sandy should all be satisfied.

PLAN IMPLEMENTATION

Ongoing Activities and Programs

- Arbor Day was celebrated in Woodcliff Lake at the Dorchester School on April 26, 2013. Seedlings were distributed and students were instructed on how to properly plant a tree.
- Oldest Tree Contest was expanded in Woodcliff Lake to the Senior Center.
- We continue as a Tree City USA and received the Growth Award for the second consecutive year.
- The WLSTC continues to write articles for both issues of the Borough Newsletter which is published in the spring and fall. Our Borough website, under Shade Tree Committee, has our Tree Management Plan, brochure for planting street trees, and other information related to the WLSTC.

- The WLSTC continues to use the Electronic Gateway Sign to communicate information about street tree availability, Arbor Day, and other related programs.
- The WLSTC shared tables with the Environment Club of the Woodcliff Middle School on Woodcliff Lake Day, Saturday, June 22nd, 2013. The students focused on composting.

Specific Activity Schedule 2013

- Our Community Forestry Management Plan was completed May 24, 2013, with a revision September 3, 2013.
- We added one new CORE trained committee member, Wiebke Hinsch. We now exceed the CORE training requirements.
- In reference to our tree inventory and assessment plan, at this juncture we have come up with the following:
 1. **Use of data:** To determine health of trees, where new trees can be planted, and distribution of species.
 2. **Data required:** Species, diameter, status
 3. **Storage method:** ITrees software and storing data on the municipal data servers.
 4. **Collection method and personnel:** Committee and volunteers
 5. **Intended output:** Create various reports on the Borough website for community education and awareness.
- The data collection for our tree inventory has commenced in the following ways: We have identified all public lands and will identify those street trees and have engaged the Middle School students to do a street inventory of the street trees on their property. This was accomplished with a brochure we developed for this purpose and the results have been returned to us, ready for input.
- Updating our tree ordinance is an ongoing project. The Council has a draft and it is in committee.
- We are working both on the arboretum and nursery plans. We now have a fence enclosed area to plant seedlings or whips and have plates identifying special trees we have on the town property in the tennis court area.
- As stated above, our ongoing activities are listed.

COMMUNITY STEWARDSHIP INCENTIVE PROGRAM

- We have not explored CSIP grants in 2013. We focused on preparing our Tree Management Plan and having it approved in 2013.



BOROUGH OF WOODCLIFF LAKE

188 PASCACK ROAD, P.O. BOX 8619, WOODCLIFF LAKE, NEW JERSEY 07677

JEFREY R. GOLDSMITH, Mayor
THOMAS RICHARDS, Borough Administrator

201-391-4977
Fax 201-391-8830

Date: December 26, 2013

To: Marilyn Clark

From: Thomas H. Richards, Administrator

Subject: COMMUNITY FORESTRY EXPENDITURES (INCLUSIVE OF DECEMBER EXPENSES PAID IN January 2014)

Labor:	\$ 1,500.00
Trees Removed:	117,420.00
Borough Administrator Time:	1,000.00
Materials:	
Trees/Shrubs purchased (including installation)	\$ 10,074.00
LEAF/Wood Waste Processing (Compost Facility Thru 12/26/13)	64,015.00
Total Community Forestry Expenditures:	\$194,009.00 *
COST PER CAPITA (\$194,000.00/5,820):	\$ 33.20

***NOTE:**

2012: \$196,186.35 – 34.18 PER CAPITA 2011: \$109,684.30 - 19.14 PER CAPITA (Before Sandy)

Our 2013 budget still reflects clean up from Hurricane Sandy. It is \$2,177.35 less than 2012, which showed a higher amount for leaf/wood processing due to Hurricane Sandy. We would expect a lower amount for 2014, unless another storm comes our way.

2014



BOROUGH OF WOODCLIFF LAKE

188 PASCACK ROAD, P.O. BOX 8619, WOODCLIFF LAKE, NEW JERSEY 07677

JEFFREY R. GOLDSMITH, Mayor
DONNA ALONSO, Interim Borough Administrator

201-391-4977
Fax 201-391-8830

January 12, 2015

Community Forestry Program
Alec McCartney, Forester
501 East State Street
PO Box 420
Trenton, NJ 08625

Re: Woodcliff Lake NJ Community Forestry Management Plan

Dear Alec:

It is my pleasure to send to you our second Annual Accomplishment Report for our Community Forestry Management Plan.

Should you need clarification of anything, I can be reached at 201-391-4720 and mjjclark@yahoo.com . Thanks so much for all the support you give us.

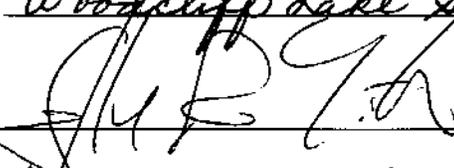
Sincerely,

Marilyn J. Clark
Chairman, Arbor Day/Tree city USA

M
Encls.

**New Jersey Shade Tree and Community Forestry Assistance Act
Annual Accomplishment Report**

ANNUAL ACCOMPLISHMENT REPORT FORM

Municipality Woodcliff Lake, NJ
County Bergen
Address 188 Pascack Road
Woodcliff Lake, NJ 07677
Contact Name and Title Marilyn Clark, Chairman Arbor Day & Tree City USA
Phone # 201-391-4720
Fax # and E-mail MJJCLARK@YAHOO.COM
Organization Name Woodcliff Lake Shade Tree Committee
Mayor/County Freeholder's Signature 
Date of Management Plan Approval Initial: 5/24/13 Revised: 9/3/13
Time Period Covered in Management Plan 2013-2017
Date of Annual Accomplishment Report Submission 1/8/14
Accomplishment Report for Calendar Year 2014

***PLEASE INCLUDE THIS FORM AS THE COVER PAGE TO YOUR ANNUAL ACCOMPLISHMENT REPORT**

To Submit Report:
Community Forestry Program
Attn: Alexander J. McCartney
Mall Code: 501-04
P.O. Box 420
Trenton, NJ 08625

New Jersey Shade Tree and Community Forestry Assistance Act **Annual Accomplishment Report for 2014**

COMMUNITY FORESTRY PROGRAM ADMINISTRATION

- The composition of our Shade Tree Committee has remained the same.

TRAINING and PROFESSIONAL DEVELOPMENT

- We had one of the members of our committee, Johanna Cairo, earn her CORE credits at the NJ Shade Tree Federation 89th Annual Conference. We now have four CORE trained members of the WLSTC. In addition, Marilyn Clark earned 2 CEU credits at the same conference.
- January 27, 2014, three of our members (Clay Bosch, Marilyn Clark, Wiebke Hinsch) attended the workshop sponsored by the Dumont Shade Tree Commission. Each member earned 1.5 credits, totaling 4.5 CEU credits
- April 12, 2014 Marilyn Clark earned 2 CEU credits at workshops sponsored by Bergen Community College. **This brings our CEU credits to 8.5.**
- November 20, 2014, Wiebke Hinsch earned **additional CEU credits** at workshop in Riverdale, NJ.

PUBLIC EDUCATION/AWARENESS/OUTREACH

- March 29, 2014 the Woodcliff Lake Shade Tree Committee, with help from Girl Scout Troop 316 from Woodcliff Lake, helped to distribute 500 tree seedlings to town residents. This event was published in our local newspapers and our town electronic sign was used for further notification.
- June 21, 2014 was Woodcliff Lake Day. Members of the Shade Tree Committee manned a table at the event, distributing tree information brochures and also *Find the Oldest Tree in Woodcliff Lake* forms.
- Some members of the WLSTC worked with the Green Team relating to achieving Sustainable NJ Certification. (Certification was achieved this year.)

STATEMENT OF TREE BUDGET

- The expenditures for 2014 are attached.

PLAN IMPLEMENTATION

Ongoing Activities and Programs

- Arbor Day was celebrated in Woodcliff Lake at the Woodcliff Middle School on April 25, 2014. A tree planting together with a presentation on proper planting methods was part of Arbor Day. Also, the middle school students participated in Project Learning Tree, led by faculty member Julie Ogden.
- We continue as a Tree City USA and received the Growth Award for the third consecutive year.

- The WLSTC continues to publish in the Spring and Fall newsletters. The borough website lists the WLSTC and is updated with brochures, information on planting street trees, the tree ordinance and other tree related subjects.
- The WLSTC continues to use the Electronic Gateway Sign to communicate information about street tree availability, Arbor Day, and other related programs.
- WLSTC continues to avail itself of the services of our Certified Tree Expert Bill Comery.
- Tree Removal Requests continue to be part of our work scope, working within the parameters of our Heritage Tree Ordinance and awareness of hazardous trees. 172 trees were removed through requests for tree removal and 15 trees were removed by the town, bringing the total to 187. Of the trees removed by the town, our DPW Supervisor advised me the removal of one tree cost \$8000. Pruning of the causeway pear trees was contemplated during 2014 but was delayed due to dam construction work by United Water Co., which closed off the other road crossing the causeway.
- Street Tree plantings continued, with 38 trees planted in 2014.

Specific Activity Schedule 2014

- We added one new CORE trained committee member, Johanna Cairo. We now exceed the CORE training requirements.
- In reference to our tree inventory and assessment plan: First we evaluated the street tree inventory completed by our Middle School students. (Each student was to record the street tree on their property.) Upon spot checking we unfortunately found most of the information invalid. As a committee we agreed this method was ineffective and we would do the inventory ourselves. We have completed Rose Avenue, Glen Road and Werimus Road. We have marked the hazardous trees on Glen Road, and the DPW has removed some and the remainder are on the "to be removed list".
- Updating our tree ordinance is an ongoing project. The Council has a draft and it is in committee.
- We are working on the arboretum. We purchased trees for our tree farm which have been planted in the fenced in tree farm area and a special sign has been installed identifying the tree farm. As we continue to add trees to our arboretum, tree identification plates are also added. As stated above, our ongoing activities are listed.
- Project Learning Tree was introduced by faculty member Julie Ogden at our 2014 Arbor Day celebration.

COMMUNITY STEWARDSHIP INCENTIVE PROGRAM

- We did not explore CSIP grants in 2014 as there were no monies available.



2015

BOROUGH OF WOODCLIFF LAKE

188 PASCACK ROAD, WOODCLIFF LAKE, NEW JERSEY 07677

Carlos Rendo, Mayor
Tomas J. Padilla, Borough Administrator

201-391-4977
Fax 201-391-8830

February 4, 2016

StateForestry Service
Community Forestry Program - AAR
Carrie Sargeant
Mail Code:501-04
PO Box 420
Trenton, NJ 08625

Re: Woodcliff Lake NJ Community Forestry Management Plan

Dear Carrie:

It is my pleasure to send to you our third Annual Accomplishment Report for our Community Forestry Management Plan.

Should you need clarification of anything, I can be reached at 201-391-4720 and mjjclark@yahoo.com . Thanks so much for all the support you give us.

Sincerely,

Marilyn J. Clark
Chairman, Arbor Day/Tree city USA

M
Encls.

Community Forestry Program
Annual Accomplishment Report

ANNUAL ACCOMPLISHMENT REPORT FORM

(This form must serve as the cover page to the report)

Municipality Woodcliff Lake NJ
County Bergen
Address 188 Pascack Road
Woodcliff Lake, NJ 07677

Contact Name and Title Marilyn Clark, Chairman Arbor Day/Tree City USA
Phone # 201-391-4720
Fax # and E-mail M.J.CLARK@YAHOO.COM
Organization Name Woodcliff Lake Shade Tree Committee

Mayor/County Freeholder's Signature _____

Date of Management Plan Approval Initial 5/24/13 Revised 9/3/13

Time Period Covered in Management Plan 2013-2017

Date of Annual Accomplishment Report Submission Feb. 4, 2016

Accomplishment Report for Calendar Year 2015

ELECTRONIC SUBMISSIONS ARE PREFERRED.

Submit report electronically to: carrie.sargeant@dep.nj.gov

Or via traditional post to: State Forestry Service
Community Forestry Program-AAR
Mail Code: 501-04
P.O. Box 420
Trenton, NJ 08625



**BOROUGH OF WOODCLIFF LAKE
OFFICE OF THE ADMINISTRATOR**

MEMORANDUM

DATE: December 9, 2015
TO: Marilyn Clark
FROM: Tomas J. Padilla, Borough Administrator
RE: Community Forestry Expenditures

Marilyn,

As requested here is a breakdown as of November 30, 2015.

DPW Labor	\$ 3,000
Tree Removal	\$ 5,000
• We do not anticipate any cost for December 2015, but if we do, will advise you.	
Administration Time	\$ 1,000
Materials	
Trees/Shrubs – purchase & installation	\$ 1,144.70
Leaf/Wood Waste Processing	
Log Disposal	\$ 1,200
	\$ 600 – Est. for Dec 2015
Leaf/Brush Disposal/Recycle	\$46,697.20
	\$30,000 – Est. for Dec 2015
Total to date:	\$58,041.90
Per Capita Cost	\$9.97
Total if we include Dec'15 estimates	\$88,641.90
Per Capita Cost	\$15.23

Per capita computed using population of 5,820 for the Borough. This year the cost have decreased substantially as we have been spared from any major storms/events to date.



BOROUGH OF WOODCLIFF LAKE

188 PASCACK ROAD, WOODCLIFF LAKE, NEW JERSEY 07677

Carlos Rendo, Mayor
Tomas J. Padilla, Borough Administrator

201-391-4977
Fax 201-391-8830

Funds used from Woodcliff Lake Shade Tree Committee Budget for 2015

Shade Tree Consultant	\$ 712.50
Eisele's Nursery	1,622.00
Sprinkler System	345.00
Education and training	415.00
Dues/Membership	205.00
Equipment and supplies	774.62
Trees and shrubs	<u>9,782.15</u>
Total	<u>\$13,856.27</u>

New Jersey Shade Tree and Community Forestry Assistance Act
Annual Accomplishment Report for 2015

COMMUNITY FORESTRY PROGRAM ADMINISTRATION

- The composition of our Shade Tree Committee has changed. Johanna Cairo has resigned.

TRAINING and PROFESSIONAL DEVELOPMENT – 19 CEU’s earned 2015

- We had one of the members of our committee, Kathleen Bagley, earn her CORE credits at the NJ Shade Tree Federation Annual Conference. We now have six CORE trained members of the WLSTC. In addition, Kathleen Bagley earned **5 CEU credits** at the same conference.
- March 2, 2015, four of our members (Marilyn Clark, Wiebke Hinsch, Johanna Cairo and Bert Taylor) attended the workshop sponsored by the Dumont Shade Tree Commission. Each member earned **1.5 credits, totaling 6 CEU credits**
- April 2, 2015 Clay Bosch, Marilyn Clark, Wiebke Hinsch and Bert Taylor each earned **2 CEU credits** at the Woodcliff Lake Pruning workshop, totaling **8 CEU credits**.

PUBLIC EDUCATION/AWARENESS/OUTREACH

- The Shade Tree Committee has a page on the town website, which offers:
 1. The Community Forestry Plan
 2. Request for Tree Removal Form
 3. Request for Street Tree Planting Form
 4. Information about the Shade Tree Committee and procedures.
- We have also approached home owners directly about planting street trees in the right of way in front of their homes.

STATEMENT OF TREE BUDGET

- The expenditures for 2015 are attached, there are two sheets, one from the Borough of Woodcliff Lake and the other from the Shade Tree budget.

PLAN IMPLEMENTATION

Ongoing Activities and Programs

- Arbor Day was celebrated in Woodcliff Lake at the Dorchester School on April 24, 2015. A tree planting and a presentation on trees was done by Clay Bosch. Also, the students prepared a presentation on trees in their Technology Center.
- We continue as a Tree City USA community.
- The WLSTC continues to publish in the Spring and Fall newsletters. The borough website lists the WLSTC and is updated with brochures, information on planting street trees, the tree ordinance and other tree related subjects.

- The WLSTC continues to use the Electronic Gateway Sign to communicate information about street tree availability, Arbor Day, and other related programs.
- WLSTC continues to avail itself of the services of our Certified Tree Expert Bill Comery.
- Tree Removal Requests continue to be part of our work scope, working within the parameters of our Heritage Tree Ordinance and awareness of hazardous trees. A total of 380 trees were removed through requests for tree removal. Most of the trees removed were on private property and the requests were made primarily due to expanding the footprint of the home or building swimming pools. Of course hazardous trees were also removed. Pruning of the causeway pear trees was delayed due to dam construction work by United Water Co., which closed off the other road crossing the causeway. The work has just been completed by United Water Co. and Church Road, has been open for about a month.
- Street Tree plantings continued, with 30 trees planted in 2015.

Specific Activity Schedule 2015

- We added one new CORE trained committee member, Kathleen Bagley. We now exceed the CORE training requirements.
- In reference to our tree inventory and assessment plan: Initially we started the street tree inventory with volunteers and found it was not effective. We received a private grant and contracted with Richard Wolowicz of RichView Consulting. He is in the process of completing our street tree inventory, with over 75% of the inventory completed.
- Updating our tree ordinance is an ongoing project. The Council has a draft and it is in committee.
- We continue working on the arboretum by adding additional species. As we continue to add trees to our arboretum, tree identification plates are also added. As stated above, our ongoing activities are listed.
- We continue to maintain our tree farm and are hopeful that some of those trees will be used for the 2016 street tree planting.

COMMUNITY STEWARDSHIP INCENTIVE PROGRAM

- We did not explore CSIP grants in 2015 but we did receive a private grant for a street tree inventory.



2016

WOODCLIFF LAKE SENIOR ASSOCIATION

188 PASCACK ROAD, P.O. BOX 8819, WOODCLIFF LAKE, NEW JERSEY 07677

201-391-4977

February 1, 2017

State Forestry Service
Community Forestry Program - AAR
Carrie Sargeant
Mail Code: 501-04
PO Box 420
Trenton, NJ 08625

Re: Woodcliff Lake NJ Community Forestry Management Plan

Dear Carrie:

It is my pleasure to send to you our fourth Annual Accomplishment Report for our Community Forestry Management Plan.

Should you need clarification of anything, I can be reached at 201-391-4720 and mjjclark@yahoo.com. Thanks so much for all the support you give us.

Sincerely,

Marilyn J. Clark
Chairman, Arbor Day/Tree city USA

M
Encls.

Community Forestry Program
Annual Accomplishment Report

ANNUAL ACCOMPLISHMENT REPORT FORM

(This form must serve as the cover page to the report)

Municipality Woodcliff Lake
County Bergen
Address Parsack Road
Woodcliff Lake Nj 07677
Contact Name and Title Marilyn Clark, Chair Tree City USA
Phone # 201-391-4720
Fax # and E-mail M.J.J.CLARK@YAHOO.COM
Organization Name Woodcliff Lake Shade Tree Committee
Mayor/County Freeholder's Signature 
Date of Management Plan Approval 5/24/13
Time Period Covered in Management Plan 2013-2017
Date of Annual Accomplishment Report Submission 2/1/17
Accomplishment Report for Calendar Year 2016

ELECTRONIC SUBMISSIONS ARE PREFERRED.

Submit report electronically to: carrie.sargeant@dep.nj.gov

Or via traditional post to: State Forestry Service
Community Forestry Program-AAR
Mail Code: 501-04
P.O. Box 420
Trenton, NJ 08625

New Jersey Shade Tree and Community Forestry Assistance Act **Annual Accomplishment Report for 2016**

COMMUNITY FORESTRY PROGRAM ADMINISTRATION

- The composition of our Shade Tree Committee has changed; Roberta Green, David Berger and Andrew Lukac have joined the committee. We continue to meet on a monthly basis, and in addition on a needs basis.

TRAINING and PROFESSIONAL DEVELOPMENT

- We had one of the members of our committee, Roberta Green, earn her CORE credits at the NJ Shade Tree Federation Annual Conference. We now have six CORE trained members of the WLSTC. In addition, Tom Ivacich from our DPW was CORE certified.
- April 16, 2016, two of our members (Clay Bosch and Marilyn Clark) each attended 2 workshops at Bergen Community College, earning a total of 4 CEU. Kathleen Bagley attended a workshop sponsored by Bergen County on May 5, 2016 and earned 2 CEU, which brings the total to 6.
- October 29, 2016, Wiebke Hinsch and Marilyn Clark each attended workshops at the NJSTF annual conference. Each earned 5 CEU, totaling 10, and a grand total of 16.

PUBLIC EDUCATION/AWARENESS/OUTREACH

STATEMENT OF TREE BUDGET

- The expenditures for 2016 are attached.

PLAN IMPLEMENTATION

Ongoing Activities and Programs

- Arbor Day was celebrated in Woodcliff Lake at the Woodcliff School on April 22, 2016. A tree planting together with a presentation on proper planting methods was part of Arbor Day. Also, the middle school students participated in Project Learning Tree, led by faculty member Julie Ogden.
 - We celebrated our 10th Year as a Tree City USA and received the Growth Award for the fourth year.
 - The WLSTC continues to publish in the Spring and Fall newsletters. The borough website lists the WLSTC and is updated with brochures, information on planting street trees, the tree ordinance and other tree related subjects.
 - The WLSTC continues to use the Electronic Gateway Sign to communicate information about street tree availability, Arbor Day, and other related programs.
 - WLSTC continues to avail itself of the services of our Certified Tree Expert Bill Comery.
 - Tree Removal Requests continue to be part of our work scope, working within the parameters of our Heritage Tree Ordinance and awareness of hazardous trees. A
-

total of 601 trees were removed during 2016. More than a third of this amount was due to a complex, The Gables, that is being build on County Road. Pruning of the causeway pear trees was contemplated during 2016 but was still delayed due to dam construction work by United Water Co., which closed off the other road crossing the causeway.

- Street Tree plantings continued, with 35 trees planted in 2016.

Specific Activity Schedule 2016

- We added one new CORE trained committee member, Roberta Green. We now exceed the CORE training requirements. Tom Ivacich from our DPW was CORE trained in April.
- Our street tree inventory was completed by Richview consulting at the end of 2016. We used the inventory to evaluate our ash tree situation and are in the process of evaluating our hazardous trees.
- The Shade Tree Ordinance was amended and adopted August 30, 2016.
- As we continue to add trees to our arboretum, tree identification plates are also added. As stated above, our ongoing activities are listed.
- Project Learning Tree, under the leadership of faculty member Julie Ogden was part of 2016 Arbor Day celebration.
- Woodcliff Lake is in the process of securing Galaxy Gardens, a nursery on Woodcliff Avenue, to add to the town's open space. However, it is too early for the Shade Tree Committee involvement

COMMUNITY STEWARDSHIP INCENTIVE PROGRAM

- We applied for a received a CSIP grants in 2016 in the amount of \$19,000 to cover a special tree planting.
-

Woodcliff Lake Borough

NJ Urban and Community Forestry Program

2016 Approved Status

Yes

Approved status confirms compliance with the requirements to receive and maintain local urban and community forestry program accreditation by the NJ Urban and Community Forestry Program in accordance with the NJ Shade Tree and Community Forestry Assistance Act. If there is a NO in the box above, please check the requirements below to determine the requirement your program is missing.

To receive and maintain approved status, the community's program must stay up to date with these four requirements:

1. Community Forestry Management Plan
2. Core Trained Community Representatives
3. Continuing Education Credits (CEUs)
4. Annual Accomplishment Report

1. COMMUNITY FORESTRY MANAGEMENT PLAN

A current approved Community Forestry Management Plan is required for Approved Status.

Initial Management Plan Status	Approved	Initial Management Plan Approved to start in	2013
Second 5-year Management Plan Status	N/A	Second Management Plan Approved to start in	N/A
Third 5-year Management Plan Status	N/A	Third Management Plan Approved to start in	N/A
Fourth 5-year Management Plan Status	N/A	Fourth Management Plan Approved to start in	
ManagementPlanContactName	Marilyn Clark	Most Recent Plan Expires on December 31st of	2017

2. CORE TRAINED COMMUNITY REPRESENTATIVES

The Act requires each municipality/county have at least two CORE Trained individuals, one municipal employee and one community volunteer who must be currently active in the program. An elected official will qualify as either a municipal employee or a community volunteer.

Primary CORE Volunteer: Marilyn Clark Primary CORE Municipal Employee: David Antione

*Additional CORE Trained Representatives are listed on Page #2 of this Status Report.

3. CONTINUING EDUCATION UNITS

At least two individuals representing your municipality/county must accrue a total of 8 Continuing Education Units (CEUs) annually to maintain approved status. Any individual can attain CEUs on behalf of your municipality/county, they do not have to be CORE trained. CORE Training does not count toward CEU credits.

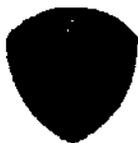
2016 CEU Credits: 49 Number of Individuals Who Have Acquired CEU Credits to date in 2016: 9

*Details about CEU's are listed on Page #2 of this Status Report

4. ANNUAL ACCOMPLISHMENT REPORT

An Annual Accomplishment Report details Community Forestry Management Plan implementation. An Annual Accomplishment Report and cover sheet developed in accordance with the community forestry program guidelines must be submitted by February 15th each year detailing the prior year's work.

Annual Accomplishment Report for 2016: Received



Contact: Brian McDonald, Forester, Urban Community Forestry Program
 brian.mcdonald@dep.nj.gov, 609.292.8191
 Report Updated: April 10, 2017

CORE Trained Representatives

Name	Type of Representative	Primary Contact	Date Of Training
David Antoine	Municipal Employee	YES	6/24/1998
Marilyn Clark	Volunteer	YES	3/10/2007
Roberta Green	Volunteer	NO	10/29/2016
Kathleen Bagley	Volunteer	NO	10/23/2015
Wiebke Hinsch	Volunteer	NO	10/25/2013
Johanna Cairo	Volunteer	NO	10/24/2014
Clay Bosch		NO	6/10/1999
Tom Ivancich	Municipal Employee	?	4/23/2016

Course Participant	Course Title	Course Date	CEU Credits
Wiebke Hinsch	NJSTF Day 1	10/28/2016	5
Marilyn Clark	NJSTF Inventory	10/29/2016	5
David Linko	ACRT Line Clearance	3/10/2016	8
Kevin Zink	ACRT Line Clearance	3/10/2016	8
Tom Ivacich	ACRT Line Clearance	3/10/2016	8
Scott Davis	ACRT Line Clearance	3/2/2016	8
Clay Bosch	BCC Bartlett EAB	4/16/2016	1
Clay Bosch	BCC Pruning	4/16/2016	1
Marilyn Clark	BCC Bartlett EAB	4/16/2016	1
Marilyn Clark	BCC Pruning	4/16/2016	1
Nancy Werchoff	BCC Bartlett EAB	4/16/2016	1
Kathleen Bagley	Bergen County EAB Training	5/5/2016	2

Woodcliff Lake Borough

NJ Urban and Community Forestry Program

2016 Approved Status

Yes

Approved status confirms compliance with the requirements to receive and maintain local urban and community forestry program accreditation by the NJ Urban and Community Forestry Program in accordance with the NJ Shade Tree and Community Forestry Assistance Act. If there is a NO in the box above, please check the requirements below to determine the requirement your program is missing.

To receive and maintain approved status, the community's program must stay up to date with these four requirements:

1. Community Forestry Management Plan
2. Core Trained Community Representatives
3. Continuing Education Credits (CEUs)
4. Annual Accomplishment Report

1. COMMUNITY FORESTRY MANAGEMENT PLAN

A current approved Community Forestry Management Plan is required for Approved Status.

Initial Management Plan Status	Approved	Initial Management Plan Approved to start in	2013
Second 5-year Management Plan Status	N/A	Second Management Plan Approved to start in	N/A
Third 5-year Management Plan Status	N/A	Third Management Plan Approved to start in	N/A
Fourth 5-year Management Plan Status	N/A	Fourth Management Plan Approved to start in	
ManagementPlanContactName	Marilyn Clark	Most Recent Plan Expires on December 31st of	2017

2. CORE TRAINED COMMUNITY REPRESENTATIVES

The Act requires each municipality/county have at least two CORE Trained individuals, one municipal employee and one community volunteer who must be currently active in the program. An elected official will qualify as either a municipal employee or a community volunteer.

Primary CORE Volunteer Marilyn Clark Primary CORE Municipal Employee David Antione

*Additional CORE Trained Representatives are listed on Page #2 of this Status Report.

3. CONTINUING EDUCATION UNITS

At least two individuals representing your municipality/county must accrue a total of 8 Continuing Education Units (CEUs) annually to maintain approved status. Any individual can attain CEUs on behalf of your municipality/county, they do not have to be CORE trained. CORE Training does not count toward CEU credits.

2016 CEU Credits 49 Number of Individuals Who Have Acquired CEU Credits to date in 2016 9

*Details about CEU's are listed on Page #2 of this Status Report

4. ANNUAL ACCOMPLISHMENT REPORT

An Annual Accomplishment Report details Community Forestry Management Plan implementation. An Annual Accomplishment Report and cover sheet developed in accordance with the community forestry program guidelines must be submitted by February 15th each year detailing the prior year's work.

Annual Accomplishment Report for 2016 Received



Contact: Brian McDonald, Forester, Urban Community Forestry Program
 brian.mcdonald@dep.nj.gov, 609.292.8191
 Report Updated: June 9, 2017

CORE Trained Representatives

Name	Type of Representative	Primary Contact	Date Of Training
David Antoine	Municipal Employee	YES	6/24/1998
Marilyn Clark	Volunteer	YES	3/10/2007
Roberta Green	Volunteer	NO	10/29/2016
Kathleen Bagley	Volunteer	NO	10/23/2015
Wiebke Hinsch	Volunteer	NO	10/25/2013
Johanna Cairo	Volunteer	NO	10/24/2014
Clay Bosch		NO	6/10/1999
Tom Ivancich	Municipal Employee	?	4/23/2016

Course Participant	Course Title	Course Date	CEU Credits
Wiebke Hinsch	NJSTF Day 1	10/28/2016	5
Marilyn Clark	NJSTF Inventory	10/29/2016	5
David Linko	ACRT Line Clearance	3/10/2016	8
Kevin Zink	ACRT Line Clearance	3/10/2016	8
Tom Ivacich	ACRT Line Clearance	3/10/2016	8
Scott Davis	ACRT Line Clearance	3/2/2016	8
Clay Bosch	BCC Bartlett EAB	4/16/2016	1
Clay Bosch	BCC Pruning	4/16/2016	1
Marilyn Clark	BCC Bartlett EAB	4/16/2016	1
Marilyn Clark	BCC Pruning	4/16/2016	1
Nancy Werchoff	BCC Bartlett EAB	4/16/2016	1
Kathleen Bagley	Bergen County EAB Training	5/5/2016	2

Appendix #2:

Ordinance – Chapter 355: Trees Amended by Ordinance 16-13

Chapter 355: Trees

HISTORICAL: Adopted by the Mayor and Council of the Borough of Woodcliff Lake as indicated in article histories. Amendments in bold where applicable.

GENERAL REFERENCES

Shade Tree Committee — See Ch. 70.
 Brush, grass and weeds — See Ch. 110.
 Building construction — See Ch. 114.
 Uniform construction codes — See Ch. 140.
 Property maintenance — See Ch. 265.
 Site plan review — See Ch. 292.
 Soil erosion and sediment control — See Ch. 299.
 Soil moving — See Ch. 304.
 Streets and sidewalks — See Ch. 326.
 Subdivision of land — See Ch. 332.

Article I: Shade Trees

[Adopted 6/13/1966 by Ord. No. 243; amended in its entirety 7/16/2007 by Ord. No. 07-09 (Ch. 211 of the 1985 Code)]

§ 355-1 Definitions.

As used in this article, the following terms shall have the meanings indicated:

DRIPLINE

A line connecting the tips of the outermost branches of a tree projected vertically onto the ground.

PERSON

Every person, firm, association, partnership, corporation and individual.

SHADE TREE

Shade and ornamental trees and shrubbery now located or which may hereafter be planted in any public highway, park or parkway in the Borough.

[Amended 8/30/2016 by Ord. No. 16-13]

SHADE TREE COMMITTEE

The Shade Tree Committee of the Borough of Woodcliff Lake and its duly authorized representatives.

§ 355-2 Prohibited acts; exception.

[Amended 8/30/2016 by Ord. No. 16-13]

- A. No person, firm, corporation or individual connected with such firm or corporation shall do or cause to be done by others to any tree, shrub or plant on a public highway or place, either purposely, carelessly or negligently, without the permission of the Shade Tree Committee, any of the following acts:
- (1) Cut, prune, climb with spikes, break, damage or remove.
 - (2) Cut, disturb or interfere in any way with any root.
 - (3) Spray with any chemical, including pesticides.

- (4) Fasten any rope, wire, sign or other device.
 - (5) Remove or damage any guard or device placed to protect any tree or shrub.
 - (6) Plant any tree contrary to the requirements of the Shade Tree Committee and approval of the governing body.
 - (7) Remove any living woody perennial plant having a diameter at breast height (DBH) greater than six inches without first receiving a permit in accordance with the provisions of this article.
- B. Nothing herein shall prevent any governmental agency from tying a public notice upon a tree in connection with administering governmental affairs.

§ 355-3 Free access for air and water; open space.

- A. No person or corporation shall, without the permission of the Shade Tree Committee, place or maintain or cause to be placed or maintained upon the ground in any public highway or place any stone, cement or other sidewalks or any stone, cement and other substance which shall impede the free access of air and water to the roots of any tree or shrub in any public highway or place.
- B. An open space of no less than two feet outside the trunks of trees at their bases on all sides must be maintained on all trees on public highways, except where limited by curb and/or sidewalk.

§ 355-4 Injurious substances and vapors.

- A. No person shall place salt, brine, oil or other substances injurious to plant growth in any public highway or place in such a manner as to injure any tree or shrub growing thereon.
- B. No person shall build any fire or station any tar kettle, road roller or other engine in any public highway in such a manner that the heat vapors or fumes therefrom may injure any tree or shrub growing thereon.

§ 355-5 Laying of sidewalks and curbs; street paving.

No person, firm or corporation is permitted to lay any sidewalk along or to open, construct, curb or pave any street or do any like act so as to interfere with or do injury to any highway shade tree without the consent of the Shade Tree Committee.

§ 355-6 Excavations.

[Amended by 2016 Ord. No. 16-147]

- A. In the erection, altering or repairing of any building or structure, the owner or contractor thereof shall place such guards around all nearby trees in public highways or places as will effectually prevent injury to such trees.
- B. No person, firm or corporation shall do any excavating within the dripline of any tree or shrub without the permission of the Shade Tree Committee.
- C. Shovels and all other implements, machines and tools shall be used or operated in such a manner as not to damage or destroy any tree, shrub or plant in any public highway or place.
- D. Where in authorized excavations it becomes necessary to expose or cut roots more than one inch in diameter, it shall be the duty of the contractor to protect such roots (i.e., air spade tool) under advice from the Shade Tree Committee.

§ 355-7 Attaching of devices; pruning or removal by utility companies.

- A. No person, firm or corporation shall, without permission of the Shade Tree Committee, attach or fasten any wire, insulator or other device for holding any wire to any tree or shrub in any public highway or place.

- B. Any utility company or its agents may, with prior permission from the Shade Tree Committee, prune and remove trees for line clearance of utility wires.

§ 355-8 Applications to Shade Tree Committee.

Where the permission, consent or approval of the Shade Tree Committee is required by the provisions of this article, any person, firm or corporation required to obtain such permission, consent or approval shall first make application therefor to the Shade Tree Committee, Borough of Woodcliff Lake, Bergen County.

§ 355-9 Enforcement.

[Amended 8/8/2017 by Ord. No. 04-15]

The Construction Code Official, or duly appointed designee, is the enforcing agent for this article and shall seek inspectors as deemed necessary in connection with said enforcement. Any reference to the term "Code Official" in this or any other section of the Borough Code shall also mean the duly appointed designee where so designated.

§ 355-10 Violations and penalties.

[Amended 8/8/2017 by Ord. No. 04-15]

- A. Any person, firm, or corporation retained or otherwise engaged to undertake any acts that are regulated by the provisions of this article shall assure that the proper permits have been secured before commencing any work. Any person, firm, or corporation that fails to do so shall be jointly and severally liable for violating the provision of this article.
- B. Any person found guilty of violating any of the provisions of this article shall, upon conviction by the Municipal Judge of the Borough of Woodcliff Lake, be subject to a fine of not more than \$1,000 or imprisonment for up to 90 days, or both, in the discretion of the court. In the event of violations involving more than one lot or more than one tree, a violation as to each such lot or tree shall be considered as a separate offense.

Article II: Tree Preservation

[Adopted 10-8-2003 by Ord. No. 04-7; amended in its entirety 12-17-2007 by Ord. No. 07-16 (Ch. 245 of the 1985 Code)]

§ 355-11 Purpose and intent.

The Borough of Woodcliff Lake lies largely in hills and valleys of the historic Pascack Valley area of Bergen County, New Jersey, in which substantial portions were and are covered by native trees. The Borough of Woodcliff Lake recognizes that preservation of such trees enhances the natural scenic beauty, sustains the long-term potential increase of the quality of life and property values which encourages quality development, maintains the ecology, moderates the effect of extreme temperatures, prevents erosion of topsoil, helps create an identity and quality which enhances the attractiveness of the Borough of Woodcliff Lake to residents and visitors and increases the oxygen output of the area which is needed to combat air pollution. For these reasons the Borough of Woodcliff Lake finds that in order to promote the public health, safety and general welfare of the Borough of Woodcliff Lake, while at the same time recognizing individual rights to develop and maintain private property in a manner which will not be prejudicial to the public interest, it is necessary to enact regulations controlling tree removal and preserving the heritage trees within the Borough of Woodcliff Lake. However, the Borough of Woodcliff Lake Council also recognizes that under certain circumstances heritage trees may be properly removed. Those circumstances include dead or diseased trees; trees situated on land such that tree removal is based on a reasonable use and enjoyment of the property; or so abundant that their removal would not destroy the area's natural beauty or ecology or cause erosion. It is the intent of this article to preserve as many heritage trees as possible throughout the Borough of Woodcliff Lake through staff review and the development review process.

§ 355-12 Definitions.

For the purpose of this article, the terms used herein are defined as follows:

APPLICANT

Any person or entity requesting permission to remove trees protected by this article.

CLEAR CUTTING

Any tree removal activity that will reduce the tree canopy to 20% or less is deemed to be clear cutting.
[Amended 8-30-2016 by Ord. No. 16-13]

DIAMETER AT BREAST HEIGHT (DBH)

The tree diameter measured at 4.5 feet above the ground.
[Amended 8-30-2016 by Ord. No. 16-13]

DISEASED TREE

A tree with sustained and progressive impairment of the structure or function, caused by any variety of factors or agents related to nonliving (abiotic) and living (biotic) sources.
[Added 8-30-2016 by Ord. No. 16-13]

DRIPLINE

A line connecting the tips of the outermost branches of a tree projected vertically onto the ground.^[*]

HAZARDOUS TREE

Dead or dying trees, dead parts of live trees, or unstable live trees, due to structural defects or other factors, that are located within striking distance of people or property.
[Added 8-30-2016 by Ord. No. 16-13]

PROTECTED SPECIES

Any tree designated by the Shade Tree Committee due to its unique quality, including, but not limited to, species, size, location, age, etc.
[Added 8-30-2016 by Ord. No. 16-13]

PROTECTIVE BARRIER

A barrier constructed to protect the root system or trunk of a tree from damage during construction or from equipment or soil or material deposits. Such a barrier may consist of a snow fence, saw horses or other similar structures approved by the Shade Tree Committee, the Construction Code Official or The Borough Engineer and sufficient to protect the root system or trunk of a tree from the aforementioned damage.

TREE

Any living woody perennial plant having a diameter greater than three inches measured at a point four feet above the ground.

TREE REMOVAL COMPANY

Every person, firm, association, partnership, corporation and individual that is engaged in the practice of removing any "tree" as defined by this article is deemed a tree removal company and must register as same with the Borough in compliance with the provisions of this article.
[Added 8-30-2016 by Ord. No. 16-13]

UNDESIRABLE SPECIES

Any tree that is not native to the area and can cause harm to the environment, can damage public and private lands, may grow quickly or reproduce abundantly, is difficult to eradicate or can negatively impact our native species.
[Added 8-30-2016 by Ord. No. 16-13]

[*] Editor's Note: The definition of "heritage tree," which immediately followed this definition, was repealed 8-30-2016 by Ord. No. 16-13.

§ 355-13 Prohibited activities.

Except as hereinafter provided, no person, firm or corporation shall do or cause to be done by others, either purposely, carelessly or negligently, any of the following acts upon property within the Borough:

- A. Cut, destroy, remove or substantially injure any heritage tree.
- B. Place or maintain upon the ground any substance which would impede the free access of air and water to the roots of any heritage tree.
- C. Apply any substance to any part of a heritage tree, including roots, with the intention to injure or destroy the tree.
- D. Clear-cutting of any land.

§ 355-14 Restriction on cutting trees.

[Amended 8-30-2016 by Ord. No. 16-13]

- A. Except as provided for herein, no person, firm, or corporation shall cut or remove trees without first obtaining a permit. Excepted from this shall be:
 - (1) All land-clearing operations as authorized in accordance with a site plan approval or subdivision approval and conditions imposed with respect to tree removal and planting, granted by the Planning Board, the Shade Tree Committee or Board of Adjustment of the Borough of Woodcliff Lake in accordance with the provisions of N.J.S.A. 40:55D-20 (exclusive authority of Planning Board and Board of Adjustment); provided, however, that all applications to the Planning Board or Board of Adjustment shall identify all heritage trees and shall specifically designate all trees to be removed on submitted plans and in the field. Under no circumstances shall clear-cutting be permitted on any property.
 - (2) Trees located on a commercial nursery or orchard.
 - (3) The cutting, pruning or trimming of trees in a manner which is not harmful to the health of the tree.
 - (4) Trees that represent an immediate danger to property or public safety.
 - (5) The cutting, removal or destruction of any tree pursuant to an order or directive of any municipal, county or state agency or court.
 - (6) Activities involving trees within the public highways, public rights-of-way or publicly owned properties.
 - (7) Cutting, pruning or trimming of trees by a utility agency to keep high-tension power lines clear.
- B. Protected species cannot be removed.

§ 355-15 Application for permit.

[Amended 8-30-2016 by Ord. No. 16-13]

- A. Any person, firm or corporation desiring to cut or remove a tree(s) shall apply to the Borough of Woodcliff Lake Shade Tree Committee for a permit to remove such tree(s). The applicant shall, on the application (description):
 - (1) Identify, by street, block and lot number, the land upon which the tree(s) is located.
 - (2) Provide the name, address and telephone number of the owner or duly authorized agent of said owner, where applicable.
 - (3) Identify and place on the site plan application the location of said tree(s) sought to be cut, removed or destroyed.

- (4) Mark said tree(s) on site by visible, weatherproof and reasonably tamperproof means; said tree(s) shall not be sprayed with paint or chemicals or otherwise permanently marked, damaged or defaced.
- B. Permits shall be duly signed by the person or firm undertaking the tree removal work.
 - (1) Contractor License, Crane Operator License.
- C. In the event a tree is deemed hazardous, by a duly authorized agent of the Borough, no permit is required.

§ 355-15.1 Fees.

[Amended 8/21/2013 by Ord. No. 19-13.]

The permit fees established by this article are contained within the Borough Fee Ordinance.

- A. Permit fees.
 - (1) Applicants will submit the appropriate permit fee for a tree removal permit.
 - (2) No permit fees will be required for trees deemed by the Shade Tree Committee as undesirable, unhealthy, dead, diseased, dying, or pest infested.
- B. Replacement trees and replacement fees.
 - (1) Trees removed should be replaced on the ground of the subject property with a species and type approved by the Shade Tree Committee.
 - (2) The Borough reserves the right to collect replacement fees when the requested tree removal is deemed by the Shade Tree Committee to create a deleterious impact to the tree canopy.
 - (3) Replacement fees may be refunded to the applicant when evidence is presented that replacement trees were planted on the ground of the subject property with a species and type pre-approved by the Shade Tree Committee.
 - (4) Replacement fees are forfeited after six months, and deposited into the Borough treasury, and shall thereafter be appropriated to the Shade Tree Trust Fund.
 - (5) Replacement fees shall be in addition to the permit fees.

§ 355-16 Permit required.

[Amended 8/21/2016 by Ord. No. 16-16.]

Any person, firm, or corporation shall apply for and receive a permit before removing any tree, as defined in this article. The Construction Code Official, except in accordance with the provisions of N.J.S.A. 40:55D-20 (exclusive authority of Planning Board and Board of Adjustments), shall not issue a certificate of occupancy until a tree removal permit has been issued and approved in accordance with the provisions of this article.

§ 355-17 Protection of existing trees during construction.

[Amended 8/21/2016 by Ord. No. 16-16.]

All persons subject to the provisions of this article shall comply with the following precautions:

- A. Prior to the commencement of construction, install protection at the dripline of any tree which is designated to be saved and prohibit any construction materials or other materials inside the barrier. The dripline shall not be altered in any way so as to increase the encroachment or the construction.

- B. Prohibit excavation, grading, drainage and leveling within the driplines of the tree unless approved by the Construction Code Official, with the advice of the Shade Tree Committee.
- C. Prohibit disposal or depositing of oil, gasoline, chemicals or other harmful materials within the dripline or in drainage channels, swales or areas that may lead to the dripline.
- D. Prohibit the nailing, screwing or other permanent attachment of wires, signs and ropes to any heritage tree or any tree in the municipal right-of-way.
- E. Design utility services (underground utilities) to be located outside of the dripline or tunnel under root line when possible to avoid trenching within driplines wherever possible.
- F. The Construction Code Official shall be notified of any damage that occurs to a tree during construction so that proper treatment may be administered by a certified tree expert, retained by the contractor.

§ 355-18 Application review by Shade Tree Committee.

Ordinance 15-30, 2016 by Ord. No. 15-30

Upon the Shade Tree Committee receiving the application for the cutting or removal, it shall review the site to determine whether the removal or destruction of said tree(s) shall change the drainage conditions, cause soil erosion, increase the dust, decrease the fertility of the soil or deteriorate the property value and shall further determine the overall physical conditions of the land and the deleterious effect thereon. In reviewing the aforesaid items, the Shade Tree Committee may utilize the services of the Borough Engineer, or industry expert, and request and consider a report and recommendation from him with regard to same. In addition to the aforesaid items, the Shade Tree Committee shall also consider the following in making its determination to issue or deny the permit:

- A. Whether the area where the tree is located shall be used for a building or other structure or a sewerage line, said tree located within 12 feet of any of the foregoing; whether the area where the tree is located shall be used for a patio, a driveway, a recreation area, a roadway or a drainage right-of-way, said tree located within four feet of any of the foregoing.
- B. Whether the tree or trees are likely to cause a hardship upon the applicant or place the community in danger or affect deleteriously an adjacent property owner.
- C. Whether the cutting, removal and destruction of trees shall affect the drainage conditions, cause or contribute to soil erosion, increase the dust and decrease the fertility of the soil on the land under consideration.
- D. Whether the application abides by the Borough ordinances as defined herein.

§ 355-19 Time for decision.

The Shade Tree Committee shall, within 35 days after reviewing the site (weather permitting), render its recommendation whether to grant or deny the permit and it shall advise the applicant, the Construction Code Official and the Mayor and Council of the Borough of its recommendation. The failure to make a recommendation within 35 days shall be deemed an approval of the request. Except in the case of compelling or extraordinary circumstances, the Construction Code Official will issue or deny the tree removal permit based upon the recommendation received.

§ 355-20 Appeal to the Mayor and Council.

The applicant shall have the right to appeal the recommendation and decision regarding the tree removal permit to the Mayor and Council of the Borough of Woodcliff Lake within 10 days of the denial of the tree removal permit. Said appeal shall be by written notice of appeal to the Borough Clerk. Upon receipt of said appeal, the Mayor and Council shall proceed to hear said appeal upon notice to the applicant and the Shade Tree Committee within 30 days after the filing of said notice of appeal. The Mayor and Council may, in its discretion, and upon complete review of the application and after

hearing the testimony of the Shade Tree Committee or its designee, Construction Code Official and the applicant, reverse, modify or affirm the aforesaid decision.

§ 355-21 Waiver.

Upon written application to the Woodcliff Lake Shade Tree Committee and for good cause shown, the Woodcliff Lake Shade Tree Committee may waive any of the requirements of this article.

§ 355-22 Replacement and treatment of trees.

[Amended by 50-2016 by Ord. No. 16-14^[1]]

- A. Any tree destroyed or removed in violation of this article shall be replaced by the owner with another four trees of the same species at least three inches in diameter measured at a point one foot above the ground. In the event that a tree which is not permitted to be removed is injured during building or other construction work, such tree(s) shall be promptly treated in an approved manner.
 - B. The Construction Code Official of the Borough may order any tree work or other activity which is carried on in violation of any tree removal permit or any provision of this article to be stopped forthwith. The order shall be issued in writing and a copy served upon any person engaged in tree work upon the subject lot. If no such person is present upon the lot, then the order shall be served upon the applicant; but if no permit has been issued as to such lot, then the order shall be served upon the owner of the lot. Thereafter, except for such work as is necessary to remedy the violation, any further work shall comply with the terms and conditions of any permit and the provisions of this article.
 - C. Any imposition of duties under this chapter shall be in addition to the penalties contained in § 355-23.
- [1] *Editor's Note: This ordinance also repealed former § 355-22, Enforcement.*

§ 355-23 Violations and penalties.

[Amended by 50-2016 by Ord. No. 16-14]

- A. Any person violating the provisions of this article shall be subject to a fine not exceeding \$1,000 or imprisonment for up to 90 days, or both, for each and every offense. In the event of violations involving more than one lot or more than one tree, a violation as to each such lot or tree shall be considered as a separate offense. The penalties herein may be levied against the property owner or any person, firm, or corporation retained or otherwise engaged to undertake any acts that are regulated by the provisions of this article. Any person, firm, or corporation that fails assure that the proper permits have been secured before commencing any work shall be jointly and severally liable to the property owner for violating the provisions of this article.
- B. If required replacement work is not completed within 30 days of written notification to do so, a municipal lien shall be placed upon all affected lots, and such lien shall not be discharged from such lots until such replacement work is completed.
- C. In addition to all other remedies set forth in this article or otherwise provided by law, the following remedies shall be available to the Borough for violation of this article: stop work - temporary moratorium. If a violation occurs during development, the Borough, in the discretion of the Construction Code Official, may issue a stop-work order suspending and prohibiting further activity on the property pursuant to the grading, demolition, and/or building permit(s) (including construction, inspection and issuance of certificated of occupancy) until a mitigation plan has been filed with, and approved by, the Construction Code Official, agreed to in writing by the property owner(s), and either implemented or guaranteed by the posting of adequate security. The mitigation plan shall include measures for protection of any remaining trees on the property, and shall provide for replacement of each tree removed on the property or at locations approved by the Shade Tree Committee and Construction Code Official. The replacement shall be in accordance with the standards set forth in this article, and shall be greater than that required where tree removal is permitted pursuant to the provisions of this article.

§ 355-24 Obligation for new and added construction.

[Added 8-30-2015 by Ord. No. 16-18]

All new or added construction shall be subject to the above regulations. Upon receiving a building permit, it is understood that the builder or property owners will cooperate with the Shade Tree Committee of the Borough of Woodcliff Lake. Any new structure, home, business, industry or improvement to existing structures is not complete until properly planted; that is:

- A. Where advisable, shade trees are to be planted, but not closer than 40 feet, on center, with a minimum of two per lot, within property designated as reserved to the Borough of Woodcliff Lake by easement or other reservation.
- B. With a minimum of two per lot, shade trees shall be planted within 10 feet from the edge of the street curb as permitted and approved by the Shade Tree Committee.
- C. Parking lots must have areas set aside for shade trees and/or evergreens and shrubs, or both, and planting for screening where advisable.
- D. Trees shall be two inches or more in diameter and of the species designated by the Committee.
- E. Failure to comply with the provisions of this article shall be deemed a violation as defined in § 355-10 and/or 355-24 of this chapter. No certificate of occupancy will be issued until such provisions are met.
- F. Provide tree coverage to specifications dictated by the Shade Tree Committee.
- G. Submit a landscaping plan identifying the trees to be removed from the property, and the proposed trees to be replanted, and expected canopy coverage after 10 years.

§ 355-25 Obligations for major site renovations.

[Added 8-30-2015 by Ord. No. 16-15]

Any property renovations impacting trees to a degree deemed significant by the Shade Tree Committee will be considered a major site renovation, and subject to the provisions outlined in § 355-24.

§ 355-26 Tree removal company; registration.

[Added 8-30-2015 by Ord. No. 16-13]

Every person, firm, association, partnership, corporation and individual that is engaged in the practice of removing any "tree" as defined by this article must register annually with the Borough. Said annual registration fees are contained within the Borough Fee Ordinance.

Appendix #3:

Ordinance – Chapter 70: Shade Tree Committee amended by Ordinance 16-13

Chapter 70: Shade Tree Committee

[This title was amended by the Mayor and Council of the Borough of Woodcliff Lake 5/11/1963 by Ord. No. 208; amended in its entirety 1/1/1964 by Ord. No. 215 (Ch. 305 of the 1964 Code). Subsequent amendments noted where applicable.]

GENERAL REFERENCES

Administration of government — See Ch. 5.
 Streets and sidewalks — See Ch. 326.
 Subdivision of land — See Ch. 332.
 Trees — See Ch. 355.
 Zoning — See Ch. 380.

§ 70-1 Committee established.

There is hereby established and created in and for the Borough of Woodcliff Lake a Shade Tree Committee which shall be known as the "Shade Tree Committee of the Borough of Woodcliff Lake."

§ 70-2 Authority.

Advising the governing body on all matters concerning the regulation, planting, removal, care and control of shade and ornamental trees and shrubbery upon and in the streets, highways, public places and parkways shall be exercised by and be under the authority of the Shade Tree Committee of the Borough of Woodcliff Lake.

§ 70-3 Membership.

The Shade Tree Committee of the Borough of Woodcliff Lake shall consist of no less than five members who shall be residents of the Borough and who shall serve without salary.

§ 70-4 Appointment; terms.

The Chairman and all members of the Shade Tree Committee shall be appointed by the Mayor and shall serve for one-year terms. All existing members of the entity commonly known as the "Shade Tree Commission" or "Shade Tree Committee" shall be members of the entity organized hereunder.

§ 70-5 Powers and duties.

The Shade Tree Committee of the Borough of Woodcliff Lake shall have the authority to offer advice to the governing body as to:

- A. The regulation, planting, removal and care of shade and ornamental trees and shrubbery now located or which may hereafter be planted in any public highway, park or parkway of the Borough of Woodcliff Lake, including the planting, trimming, spraying, care and protection thereof.
- B. The ground surrounding such trees and shrubbery, so far as may be necessary for their proper growth, care and protection.
- C. The removal of any tree or part thereof dangerous to the public safety.
- D. Recommend that trees are necessary in particular areas and, with the consent of the Mayor and Council, that the cost of planting such trees shall be borne by the Borough.
- E. Encourage arboriculture.
- F.

Suggest the creation, alteration, amendment or repeal of any and all rules and regulations necessary or proper for carrying out the provisions of this chapter.

- G. Partner with the appropriate experts and advise the governing body as to the administration of treatment to, or the removal of any tree situated upon private property which is believed to harbor a disease or insects readily communicable to neighboring healthy trees in the care of the municipality and enter upon private property for that purpose.
[Amended 8/30/2016 by Ord. No. 1513]
- H. Review and evaluate the removal of heritage trees on any property as pursuant to a request for heritage tree removal pursuant to Chapter 355, Article II, Tree Preservation, of the Code of the Borough of Woodcliff Lake.
- I. Review proposed construction projects if referred to by the Planning Board and the Board of Adjustment on:
 - (1) Single residential lot where review is mandated by ordinance.
 - (2) Small residential subdivision (up to six lots).
 - (3) Small commercial development.
 - (4) Small office development.
- J. Planting and removal of street trees throughout Woodcliff Lake.
- K. Arbor Day planting and ceremony.
- L. Recommendation of shade tree species.
- M. Control of street tree maintenance.
- N. Advise as to the budget for street trees, maintenance and continuing education.
- O. Review of applications, inspections, responses and related correspondence and meetings as required with an utility company representative.
- P. Undertake continuing education as to trees.
- Q. Embrace worthwhile tree-related programs.

§ 70-6 Costs of planting or removal of trees.

Except as hereinafter provided, the initial cost of trees planted by the Borough at the recommendation of the Committee, the cost of planting them, the cost of posts, boxes or guards used for the protection thereof and the cost of removal of any trees dangerous to public safety shall be the responsibility of the Borough.

§ 70-7 Notice of planting or removal.

The Committee shall give reasonable notice of its intention to remove, or cause the removal of a tree or part of a tree dangerous to public safety, unless public safety requires immediate removal, in which case no notice shall be necessary.

§ 70-8 Appeals from Committee.

- A. Appeals to the Mayor and Council may be taken by any person aggrieved or affected by any decision for the Shade Tree Committee. Such appeal shall be taken within 10 days by filing with the Shade Tree Committee and the Mayor and Council a notice of appeal specifying the grounds thereof.
- B. If the appeal is filed 10 days prior, the Mayor and Council shall hear said appeal at its next regular meeting, with notice to the Committee.

- C. In the powers conferred upon it, the Mayor and Council may reverse or affirm, wholly or partly, or may modify the order, requirement, decision or determination appealed from and make such order, requirement, decision or determination as ought to be made, and to that end have all the powers of the Shade Tree Committee.

§ 70-9 Annual appropriation.

- A. During the month of December in each year, the Shade Tree Committee shall certify to the governing body of the municipality the estimated sum necessary for the proper conduct of its work during the ensuing fiscal year.
- B. The Mayor and Council shall annually appropriate such sum as the Mayor and Council may deem necessary for said purposes.

§ 70-10 Liability.

[Amended 8-30-2016 by Ord. No. 16-13]

Nothing contained in this chapter shall be construed to make the Committee or any member thereof responsible for the death or injury of any person or for any injury to any property or highway, tree or shrub.

§ 70-11 Tree planting in subdivisions and all new construction.

[Amended 8-30-2016 by Ord. No. 16-13]

- A. All shade trees required of developers as a condition for final approval of a subdivision shall be planted pursuant to the requirements of the Shade Tree Committee by the developer, or its agents, during regular spring and fall programs, and the cost of the same shall be charged to said developers in an amount and in the manner determined by the Shade Tree Committee.
- B. The tree planting contractor shall supply and plant the trees in accordance with the specifications provided by the Shade Tree Committee. The developer shall provide a two-year guarantee of all trees and workmanship to the Borough of Woodcliff Lake. The Shade Tree Committee shall determine the acceptance date for all tree planting to start and final acceptance.

Appendix #4:
Amending Ordinance 16-13

BOROUGH OF WOODCLIFF LAKE
Bergen County, New Jersey

ORDINANCE 16-13

**REVISING VARIOUS CODES TO THE CODE OF THE BOROUGH OF WOODCLIFF LAKE RELATING
TO THE SHADE TREE COMMITTEE AND TO SHADE TREES WITHIN THE BOROUGH**

BE IT ORDAINED BY THE BOROUGH COUNCIL OF THE BOROUGH OF WOODCLIFF LAKE, IN THE COUNTY OF BERGEN AND STATE OF NEW JERSEY, AS FOLLOWS:

WHEREAS , the Mayor and Council of the Borough of Woodcliff Lake has recognized a need to update the rules and regulations governing the planting, maintenance, and removal of the trees within the Borough in order to protect and control the tree canopy of the Borough; and

WHEREAS, the Mayor and Council of the Borough of Woodcliff Lake also recognize a need to update the rules and regulation governing the Shade Tree Committee in order to provide for a more efficient governance to protect and control the tree canopy of the Borough.

NOW, THEREFORE, BE IT ORDAINED by the Mayor and Council of the Borough of Woodcliff Lake, County of Bergen, State of New Jersey, as follows:

Section 1: That Chapter § 70-5 entitled “Powers and Duties” subsection (g) is stricken and replaced with the following language and shall read as:

- G. Partner with the appropriate experts and advise the governing body as to the administration of treatment to, or the removal of any tree situated upon private property which is believed to harbor a disease or insects readily communicable to neighboring healthy trees in the care of the municipality and enter upon private property for that purpose.

Section 2: That Chapter § 70-10 entitled “Liability” is stricken and replaced with the following language and shall read as:

§ 70-10 Liability.

Nothing contained in this chapter shall be construed to make the Committee or any member thereof responsible for the death or injury of any person or for any injury to any property or highway, tree or shrub.

Section 3: That Chapter § 70-11 entitled “Tree planting in subdivisions, and all new construction” is stricken and replaced with the following language and shall read as:

§ 70-11 Tree planting in subdivisions, and all new construction

All shade trees required of developers as a Condition for final approval of a subdivision shall be planted pursuant to the requirements of the Shade Tree Committee by the Developer, or its agents, during regular spring and fall programs, and the cost of the same shall be charged to said developers in an amount and in the manner determined by the Shade Tree Committee.

The tree planting contractor shall supply and plant the trees in accordance with the specifications provide by the Shade Tree Committee. The developer shall provide a 2 yr guarantee of all trees and workmanship to the borough of Woodcliff Lake. The Shade Tree Committee shall determine the acceptance date for all tree planting to start and final acceptance.

Section 4: That Chapter § 355-1 entitled “Definitions” shall be amended to replace the definition of the term “Shade Tree” and shall now be read as:

SHADE TREE

Shade and ornamental trees and shrubbery now located or which may hereafter be planted in any public highway, park or parkway in the Borough

Section 5: That Chapter § 355-2 entitled “Prohibited acts; exception” is stricken and replaced with the following language and shall read as:

§ 355-2. Prohibited acts; exception.

- A. No person, firm, corporation or individual connected with such firm or corporation shall do or cause to be done by others to any tree, shrub or plant on a public highway or place, either purposely, carelessly or negligently, without the permission of the Shade Tree Committee, any of the following acts:
 - i. Cut, prune, climb with spikes, break, damage or remove.
 - ii. Cut, disturb or interfere in any way with any root.
 - iii. Spray with any chemical, including pesticides.
 - iv. Fasten any rope, wire, sign or other device.
 - v. Remove or damage any guard or device placed to protect any tree or shrub.
 - vi. Plant any tree contrary to the requirements of the Shade Tree Committee and approval of the governing body.
 - vii. Remove any living woody perennial plant having a diameter at breast height (DBH) greater than six inches without first receiving a permit in accordance with the provisions of this article.
- B. Nothing herein shall prevent any governmental agency from tying a public notice upon a tree in connection with administering governmental affairs.

Section 6: That Chapter § 355-5 entitled “Excavations” is stricken and replaced with the following language and shall read as:

§ 355-6. Excavations.

- A. In the erection, altering or repairing of any building or structure, the owner or contractor thereof shall place such guards around all nearby trees in public highways or places as will effectually prevent injury to such trees.
- B. No person, firm or corporation shall do any excavating within the drip-line of any tree or shrub without the permission of the Shade Tree Committee.
- C. Shovels and all other implements, machines and tools shall be used or operated in such a manner as not to damage or destroy any tree, shrub or plant in any public highway place.
- D. Where in authorized excavations it becomes necessary to expose or cut roots more than one inch in diameter, it shall be the duty of the contractor to protect such roots (i.e. air spade tool) under advice from the Shade Tree Committee.

Section 7: That Chapter § 355-9 entitled “Enforcement” is stricken and replaced with the following language and shall read as:

§ 355-9. Enforcement.

The Construction Code Official or duly appointed designee, are the enforcing agents for this article and shall seek inspectors as deemed necessary in connection with said enforcement. Any reference to the term “Code Official” in this or any other section of the Borough Code shall also mean the duly appointed designee where so designated

Section 8: That Chapter § 355-10 entitled “Violations and penalties” is stricken and replaced with the following language and shall read as:

§ 355-10 Violations and penalties.

- A. Any person, firm, or corporation retained or otherwise engaged to undertake any acts that are regulated by the provisions of this article shall assure that the proper permits have been secured before commencing any work. Any person, firm, or corporation that fails to do so shall be jointly and severally liable for violating the provision of this article.
- B. Any person found guilty of violating any of the provisions of this article shall, upon conviction by the Municipal Judge of the Borough of Woodcliff Lake, be subject to a fine of not more than \$1,000 or imprisonment for up to 90 days, or both, in the discretion of the court. In the event of violations involving more than one lot or more than one tree, a violation as to each such lot or tree shall be considered as a separate offense.

Section 9: That Chapter § 355-12 entitled “Definitions” shall be amended to strike the term “Heritage Tree” and its corresponding definition in its entirety.

Section 10: That Chapter § 355-12 entitled “Definitions” shall be amended to add the following terms and definitions:

TREE REMOVAL COMPANY

Every person, firm, association, partnership, corporation and individual that is engaged in the practice of removing any “tree” as defined by this article is deemed a tree removal company and must register as same with the Borough in compliance with the provisions of this article

DIAMETER AT BREAST HEIGHT (DBH)

The tree diameter measured at 4.5 feet above the ground.

DISEASED TREE

A tree with sustained and progressive impairment of the structure or function, caused by any variety of factors or agents related to non-living (abiotic) and living (biotic) sources.

HAZARDOUS TREE

Dead or dying trees, dead parts of live trees, or unstable live trees, due to structural defects or other factors, that are located within striking distance of people or property.

PROTECTED SPECIES

Any tree designated by the Shade Tree Committee due to its unique quality, including but not limited to, species, size, location, age, etc.

UNDESIRABLE SPECIES

Any tree that is not native to the area and can cause harm to the environment, can damage public and private lands, may grow quickly or reproduce abundantly, are difficult to eradicate or can negatively impact our native species.

CLEAR CUTTING

Any tree removal activity that will reduce the tree canopy to 20% or less is deemed to be clear cutting.

Section 11: That Chapter § 355-14 entitled “Restriction on Cutting Trees” is stricken and replaced with the following language and shall read as:

§ 355-14 Restriction on cutting trees.

Except as provided for herein, no person, firm, or corporation shall cut or remove trees without a first obtaining a permit. Excepted from this shall be:

- A. All land-clearing operations as authorized in accordance with a site plan approval or subdivision approval and conditions imposed with respect to tree removal and

planting, granted by the Planning Board, the Shade Tree Committee or Board of Adjustments of the Borough of Woodcliff Lake in accordance with the provisions of N.J.S.A. 40:55D-20 (exclusive authority of Planning Board and Board of Adjustment); provided, however, that all applications to the Planning Board or Board of Adjustment shall identify all heritage trees and shall specifically designate all trees to be removed on submitted plans and in the field. Under no circumstances shall clear-cutting be permitted on any property.

- B. Trees located on a commercial nursery or orchard.
- C. The cutting, pruning or trimming of trees in a manner which is not harmful to the health of the tree.
- D. Trees that represent an immediate danger to property or public safety.
- E. The cutting, removal or destruction of any tree pursuant to an order or directive of any municipal, county or state agency or court.
- F. Activities involving trees within the public highways, public rights-of-way or publicly owned properties.
- G. Cutting, pruning or trimming of trees by utility agency to keep high tension power lines clear.
- H. Protected species cannot be removed

Section 12: That Chapter § 355-15 entitled “Application for permit” is stricken and replaced with the following language and shall read as:

§ 355-15. Application for permit.

- A. Any person, firm or corporation desiring to cut or remove tree(s) shall apply to the Borough of Woodcliff Lake Shade Tree Committee for a permit to remove such tree(s). The applicant shall, on the application:
 - i. Description
 - a. Identify, by street, block and lot number, the land upon which the tree(s) is located.
 - b. Provide the name, address and telephone number of the owner or duly authorized agent of said owner, where applicable.
 - c. Identify and place on the site plan application the location of said tree(s) sought to be cut, removed or destroyed.
 - d. Mark said tree(s) on site by visible, weatherproof and reasonably tamperproof means; said tree(s) not to be sprayed with paint or chemicals or otherwise permanently marked, damaged or defaced.
- B. Permits shall be duly signed by the person or firm undertaking the tree removal work.
 - i. Contractor License, Crane Operator License
- C. In the event a tree is deemed hazardous, by a duly authorized agent of the borough, no permit is required

Section 13: That Chapter § 355-15.1 entitled “Fees” is added and shall read as:

§ 355-15.1. Fees

The permit fees established by this article are contained within the Borough Fee Ordinance.

A. Permit Fees.

- i. Applicants will submit the appropriate permit fee for a tree removal permit
- ii. No permit fees will be required for trees deemed by the Shade Tree Committee as an Undesirable, Unhealthy, Dead, Diseased, Dying, or Pest Infested.

B. Replacement trees and Replacement fees

- i. Trees removed should be replaced on the ground of the subject property with a species and type approved by the Shade Tree Committee.
- ii. The borough reserves the right to collect replacement fees when the requested tree removal is deemed by the Shade Tree Committee to create a deleterious impact to the tree canopy.
- iii. Replacement fees may be refunded to the applicant when evidence is presented that replacement trees were planted on the ground of the subject property with a species and type pre-approved by the Shade Tree Committee.
- iv. Replacement fees are forfeited after 6 months, and deposited into the borough treasury and shall thereafter be appropriated to the Shade Tree Trust Fund.
- v. Replacement fees shall be in addition to the permit fees

Section 14: That Chapter § 355-16 entitled “Permit required” is stricken and replaced with the following language and shall read as:

§ 355-16 Permit Required.

Any person firm, or corporation shall apply for and receive a permit before removing any tree, as defined as in this article. The Construction Code Official, except in accordance with the provisions of N.J.S.A. 40:55D-20 (exclusive authority of Planning Board and Board of Adjustments), shall not issue a certificate of occupancy until a tree removal permit has been issued and approved in accordance with the provisions of this article.

Section 15: That Chapter § 355-17 entitled “Protection of existing trees during construction” is stricken and replaced with the following language and shall read as:

§ 355-17. Protection of existing trees during construction

All persons subject to the provisions of this article shall comply with the following precautions.

- A. Prior to the commencement of construction, install protection at the dripline of any tree which is designated to be saved and prohibit any construction materials or other materials inside the barrier. The dripline shall not be altered in any way so as to increase the encroachment or the constructions.
- B. Prohibit excavation, grading, drainage and leveling within the driplines of the tree unless approved by the Construction Code Official, with the advice of the Shade Tree Committee.
- C. Prohibit disposal or depositing of oil, gasoline, chemicals or other harmful materials within the dripline or in drainage channels, swales or areas that may lead to the dripline.
- D. Prohibit the nailing, screwing or other permanent attachment of wires, signs and ropes to any heritage tree or any tree in the municipal right-of-way.
- E. Design utility services (underground utilities) to be located outside of the dripline or tunnel under root line when possible to avoid trenching within driplines wherever possible.
- F. The Construction Code Official shall be notified of any damage that occurs to a tree during construction so that proper treatment may be administered by a certified Tree Expert, retained by the contractor.

Section 16: That Chapter § 355-18 entitled “Application review by Shade Tree Committee.” is stricken and replaced with the following language and shall read as:

§ 355-18. Application review by Shade Tree Committee.

Upon the Shade Tree Committee receiving the application for the cutting or removal, it shall review the site to determine whether the removal or destruction of said tree(s) shall change the drainage conditions, cause soil erosion, increase the dust, decrease the fertility of the soil or deteriorate the property value and shall further determine the overall physical conditions of the land and the deleterious effect thereon. In reviewing the aforesaid items, the Shade Tree Committee may utilize the services of the Borough Engineer, or industry expert, and request and consider a report and recommendation from him with regard to same. In addition to the aforesaid items, the Shade Tree Committee shall also consider the following in making its determination to issue or deny the permit:

- A. Whether the area where the tree is located shall be used for a building or other structure or a sewerage line, said tree located within 12 feet of any of the foregoing; whether the area where the tree is located shall be used for a patio, a driveway, a recreation area, a roadway or a drainage right-of-way, said tree located within four feet of any of the foregoing.
- B. Whether the tree or trees are likely to cause a hardship upon the applicant or place the community in danger or affect deleteriously an adjacent property owner.
- C. Whether the cutting, removal and destruction of trees shall affect the drainage conditions, cause or contribute to soil erosion, increase the dust and decrease the fertility of the soil on the land under consideration.

D. Whether the application abides by the borough ordinances as defined herein.

Section 17: That Chapters § 355-22 entitled “Enforcement” is stricken in its entirety and replaced by a new chapter entitled “Replacement and treatment of trees.” with the following language and shall read as:

§ 355-22. Replacement and treatment of trees.

- A. Any tree destroyed or removed in violation of this article shall be replaced by the owner with another four trees of the same species at least three inches in diameter measured at a point one foot above the ground. In the event that a tree which is not permitted to be removed is injured during building or other construction work, such tree(s) shall be promptly treated in an approved manner.
- B. The Construction Code Official of the Borough may order any tree work or other activity which is carried on in violation of any tree removal permit or any provision of this article to be stopped forthwith. The order shall be issued in writing and a copy served upon any person engaged in tree work upon the subject lot. If no such person is present upon the lot, then the order shall be served upon the applicant; but if no permit has been issued as to such lot, then the order shall be served upon the owner of the lot. Thereafter, except for such work as is necessary to remedy the violation, any further work shall comply with the terms and conditions of any permit and the provisions of this article.
- C. Any imposition of duties under this chapter shall be in addition to the penalties contained in § 355-23.

Section 17: That Chapters § 355-23 entitled “Replacement and treatment of trees” is stricken in its entirety and replaced by a new chapter entitled “Violations and penalties” with the following language and shall read as:

§ 355-23. Violations and penalties.

- A. Any person violating the provisions of this article shall be subject to a fine not exceeding \$1,000 or imprisonment for up to 90 days, or both, for each and every offense. In the event of violations involving more than one lot or more than one tree, a violation as to each such lot or tree shall be considered as a separate offense. The penalties herein may be levied against the property owner or any person, firm, or corporation retained or otherwise engaged to undertake any acts that are regulated by the provisions of this article. Any person, firm, or corporation that fails assure that the proper permits have been secured before commencing any work shall be jointly and severally liable from the property owner for violating the provisions of this article.
- B. If required replacement work is not completed within 30 days of written notification to do so, a municipal lien shall be placed upon all affected lots, and such lien shall not be discharged from such lots until such replacement work is completed.
- C. In addition to all other remedies set forth in this article or otherwise provided by law, the following remedies shall be available to the Borough for violation of this article:

stop work - temporary moratorium. If a violation occurs during development, the Borough in the discretion of the Construction Code Official, may issue a stop-work order suspending and prohibiting further activity on the property pursuant to the grading, demolition, and/or building permit(s) (including construction, inspection and issuance of certificated of occupancy) until a mitigation plan has been filed with, and approved by, the Construction Code Official, agreed to in writing by the property owner(s), and either implemented or guaranteed by the posting of adequate security. The mitigation plan shall include measures for protection of any remaining trees on the property, and shall provide for replacement of each tree removed on the property or at locations approved by the Shade Tree Committee and Construction Code Official. The replacement shall be in accordance with the standards set forth in this article, and shall be greater than that required where tree removal is permitted pursuant to the provisions of this article.

Section 18: That Chapters § 355-24 entitled “Obligation for New and added construction” is added with the following language and shall read as:

§ 355-24 Obligation for New and added construction

All new or added construction shall be subject to the above regulations. Upon receiving a building permit, it is understood that the builder or property owners will cooperate with the Shade Tree Committee of the Borough of Woodcliff Lake. Any new structure, home, business, industry or improvement to existing structures is not complete until properly planted, that is:

- A. Where advisable, shade trees are to be planted, but not closer than 40 feet, on center, with a minimum of two per lot, within property designated as reserved to the Borough of Woodcliff Lake by easement or other reservation.
- B. With a minimum of two per lot, shade trees shall be planted within 10 feet from the edge of the street curb as permitted and approved by the Shade Tree Committee.
- C. Parking lots must have areas set aside for shade trees and/or evergreens and shrubs, or both, and planting for screening where advisable.
- D. Trees shall be two inches or more in diameter and of the species designated by the Committee.
- E. Failure to comply with the provisions of this article shall be deemed a violation as defined in 355-10 and/or 355-24 of this chapter. No certificate of Occupancy will be issued until such provisions are met.
- F. Provide Tree Coverage to specifications dictated by the Shade Tree Committee
- G. Submit a landscaping plan identifying the trees to be removed from the property, and the proposed trees to be replanted, and expected canopy coverage after 10 years.

Section 19: That Chapters § 355-25 entitled “Obligations for Major Site Renovations” is added with the following language and shall read as:

§ 355-25 Obligations for Major Site Renovations

Any property renovations impacting trees to a degree deemed significant by the Shade Tree Committee will be considered a major site renovation, and subject to the provisions outlined in 355-24.

Section 20: That Chapters § 355-26 entitled “Tree Removal Company; registration.” is added with the following language and shall read as:

§ 355-26 Tree Removal Company; registration.

Every person, firm, association, partnership, corporation and individual that is engaged in the practice of removing any “tree” as defined by this article must register annually with the Borough. Said annual registration fees re contained within the Borough Fee Ordinance.

Section 21: The terms of this ordinance shall not be deemed and are not intended to impair the provisions and enforcement of any other chapter of this Code, which shall remain in full force and effect.

Section 22: The provisions of this Ordinance are declared to be severable and if any section, subsection, sentence, clause or phrase thereof for any reason be held to be invalid or unconstitutional, such decision shall not affect the validity of the remaining sections, subsections, sentences, clauses and phrases of this Ordinance, but shall remain in effect; it being the legislative intent that this ordinance shall stand notwithstanding the invalidity of any part.

Section 23. All Ordinances or parts thereof in conflict or inconsistent with this Ordinance are hereby repealed, but only however, to the extent of such conflict or inconsistency, it being the legislative intent that all Ordinances or part of ordinances now existing or in effect unless the same being conflict or inconsistent with any provision of this Ordinance shall remain in effect.

Section 24: This ordinance shall take effect upon passage and publication according to law.

Date: _____

Attest: _____

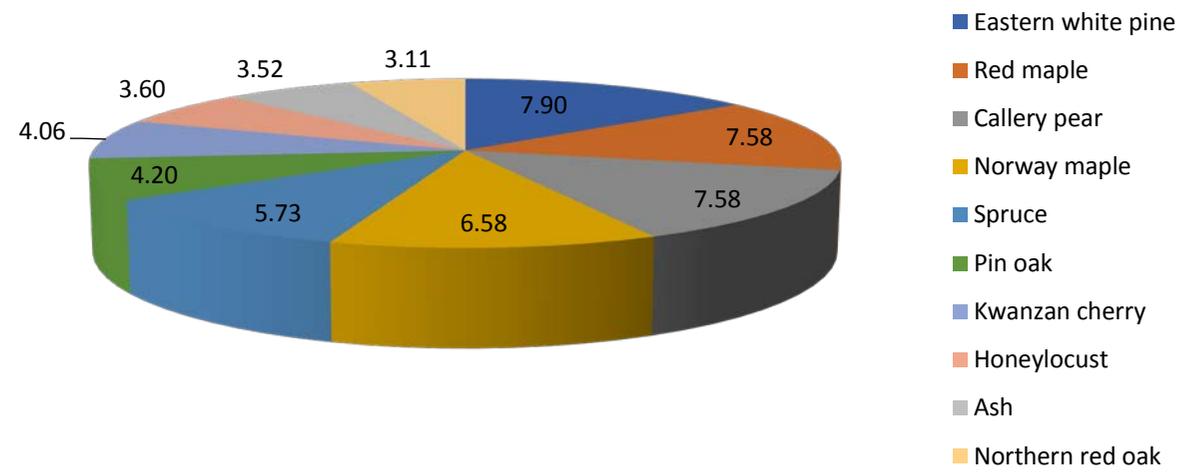
**DEBORAH DAKIN
BOROUGH CLERK**

Appendix #5:

i-Tree Inventory Reports and Graphs

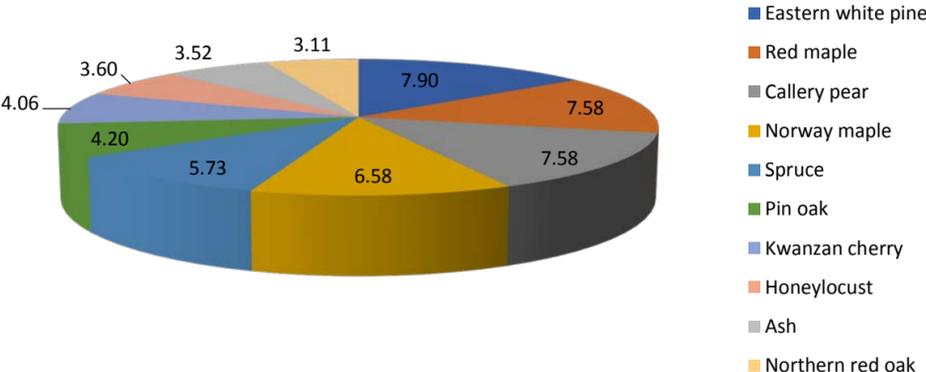
Woodcliff Lake
Species Distribution of All Trees for 1
8/15/2017

Species	Percent
Eastern white pine	7.90
Red maple	7.58
Callery pear	7.58
Norway maple	6.58
Spruce	5.73
Pin oak	4.20
Kwanzan cherry	4.06
Honeylocust	3.60
Ash	3.52
Northern red oak	3.11
Other Species	46.14



**Woodcliff Lake
Species Distribution of All Trees
8/15/2017**

Species	Percent
Eastern white pine	7.90
Red maple	7.58
Callery pear	7.58
Norway maple	6.58
Spruce	5.73
Pin oak	4.20
Kwanzan cherry	4.06
Honeylocust	3.60
Ash	3.52
Northern red oak	3.11
Other Species	46.14

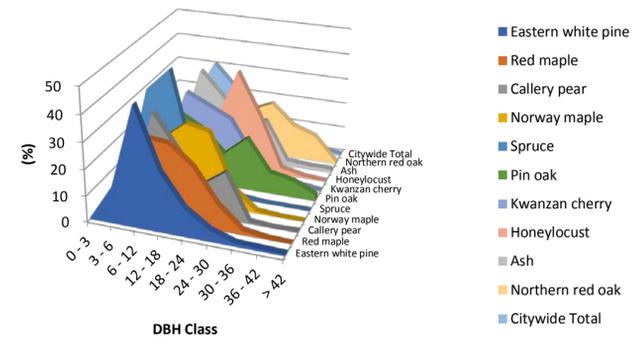


Woodcliff Lake

Relative Age Distribution of Top 10 All Tree Species (%)
8/15/2017

Species	DBH class (in)									
	0 - 3	3 - 6	6 - 12	12 - 18	18 - 24	24 - 30	30 - 36	36 - 42	> 42	
Eastern white pine	0.62	14.15	45.23	22.46	10.46	4.31	1.23	0.92	0.62	
Red maple	0.32	6.73	30.13	29.17	22.12	9.62	1.60	0.32	0.00	
Callery pear	0.96	9.29	35.90	23.40	11.54	17.95	0.64	0.00	0.32	
Norway maple	0.74	9.59	22.88	29.89	28.04	8.12	0.74	0.00	0.00	
Spruce	1.27	37.29	45.76	11.02	3.81	0.85	0.00	0.00	0.00	
Pin oak	1.73	1.16	26.01	21.39	12.72	20.23	8.09	6.36	2.31	
Kwanzan cherry	0.00	7.19	31.14	26.95	22.75	8.98	1.80	1.20	0.00	
Honeylocust	0.00	9.46	8.78	17.57	38.51	22.30	2.70	0.68	0.00	
Ash	0.00	5.52	33.79	24.83	13.79	17.24	2.07	1.38	1.38	
Northern red oak	7.03	14.06	8.59	7.81	17.19	21.09	13.28	10.16	0.78	
Citywide Total	1.46	15.45	31.20	22.18	15.11	10.08	2.58	1.43	0.51	

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



Woodcliff Lake

8/15/2017

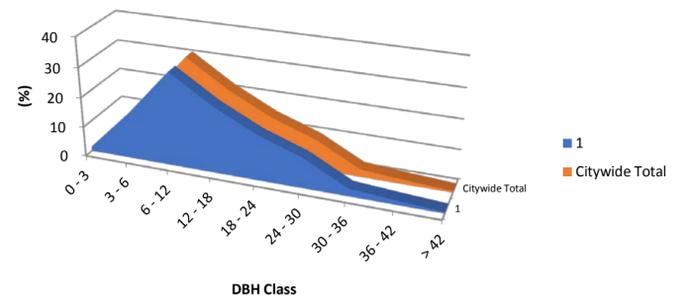
Relative Age Distribution of All Tree Species for All Zones (%)
DBH class (in)

Zone	0 - 3	3 - 6	6 - 12	12 - 18	18 - 24	24 - 30	30 - 36	36 - 42	> 42
1	1.46	15.45	31.20	22.18	15.11	10.08	2.58	1.43	0.51
Citywide Total	1.46	15.45	31.20	22.18	15.11	10.08	2.58	1.43	0.51

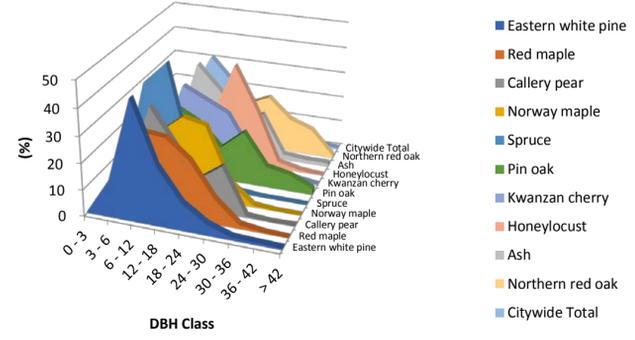
Relative Age Distribution of Top 10 All Tree Species for 1 (%)
DBH class (in)

Species	0 - 3	3 - 6	6 - 12	12 - 18	18 - 24	24 - 30	30 - 36	36 - 42	> 42
Eastern white pine	0.62	14.15	45.23	22.46	10.46	4.31	1.23	0.92	0.62
Red maple	0.32	6.73	30.13	29.17	22.12	9.62	1.60	0.32	0.00
Callery pear	0.96	9.29	35.90	23.40	11.54	17.95	0.64	0.00	0.32
Norway maple	0.74	9.59	22.88	29.89	28.04	8.12	0.74	0.00	0.00
Spruce	1.27	37.29	45.76	11.02	3.81	0.85	0.00	0.00	0.00
Pin oak	1.73	1.16	26.01	21.39	12.72	20.23	8.09	6.36	2.31
Kwanzan cherry	0.00	7.19	31.14	26.95	22.75	8.98	1.80	1.20	0.00
Honeylocust	0.00	9.46	8.78	17.57	38.51	22.30	2.70	0.68	0.00
Ash	0.00	5.52	33.79	24.83	13.79	17.24	2.07	1.38	1.38
Northern red oak	7.03	14.06	8.59	7.81	17.19	21.09	13.28	10.16	0.78
Citywide Total	1.46	15.45	31.20	22.18	15.11	10.08	2.58	1.43	0.51

Relative Age Distribution of All Tree Species for All Zones (%)



Relative Age Distribution of Top 10 All Tree Species for 1 (%)



Woodcliff Lake
Functional (Foliage) Condition of All Trees by Species
8/15/2017

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
American beech	Dead or Dying	1 (N/A)		5.56	0.02
	Poor	0 (N/A)		0.00	0.00
	Fair	3 (N/A)		16.67	0.07
	Good	14 (N/A)		77.78	0.34
	Total	18 (N/A)		100.00	0.44
American holly	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	0 (N/A)		0.00	0.00
	Fair	0 (N/A)		0.00	0.00
	Good	3 (N/A)		100.00	0.07
	Total	3 (N/A)		100.00	0.07
American hornbeam	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	1 (N/A)		3.33	0.02
	Fair	1 (N/A)		3.33	0.02
	Good	28 (N/A)		93.33	0.68
	Total	30 (N/A)		100.00	0.73
Ash	Dead or Dying	39 (N/A)		26.90	0.95
	Poor	7 (N/A)		4.83	0.17
	Fair	39 (N/A)		26.90	0.95
	Good	59 (N/A)		40.69	1.43
	Total	144 (N/A)		99.31	3.50
Atlantic white cedar	Dead or Dying	1 (N/A)		25.00	0.02
	Poor	0 (N/A)		0.00	0.00
	Fair	1 (N/A)		25.00	0.02
	Good	2 (N/A)		50.00	0.05
	Total	4 (N/A)		100.00	0.10
Atlas cedar	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	0 (N/A)		0.00	0.00
	Fair	1 (N/A)		12.50	0.02
	Good	7 (N/A)		87.50	0.17
	Total	8 (N/A)		100.00	0.19
Beech	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	0 (N/A)		0.00	0.00
	Fair	2 (N/A)		50.00	0.05
	Good	2 (N/A)		50.00	0.05
	Total	4 (N/A)		100.00	0.10

Bigtooth aspen	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Birch	Dead or Dying	1 (N/A)	8.33	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	3 (N/A)	25.00	0.07
	Good	8 (N/A)	66.67	0.19
	Total	12 (N/A)	100.00	0.29
Black birch	Dead or Dying	2 (N/A)	7.41	0.05
	Poor	0 (N/A)	0.00	0.00
	Fair	15 (N/A)	55.56	0.36
	Good	10 (N/A)	37.04	0.24
	Total	27 (N/A)	100.00	0.66
Black cherry	Dead or Dying	9 (N/A)	10.11	0.22
	Poor	5 (N/A)	5.62	0.12
	Fair	40 (N/A)	44.94	0.97
	Good	35 (N/A)	39.33	0.85
	Total	89 (N/A)	100.00	2.16
Black cottonwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	100.00	0.02
	Fair	0 (N/A)	0.00	0.00
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Black locust	Dead or Dying	2 (N/A)	8.00	0.05
	Poor	2 (N/A)	8.00	0.05
	Fair	16 (N/A)	64.00	0.39
	Good	5 (N/A)	20.00	0.12
	Total	25 (N/A)	100.00	0.61
Black oak	Dead or Dying	1 (N/A)	3.13	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	9 (N/A)	28.13	0.22
	Good	22 (N/A)	68.75	0.53
	Total	32 (N/A)	100.00	0.78
Black spruce	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07

	Total	3 (N/A)	100.00	0.07
Black tupelo	Dead or Dying	1 (N/A)	12.50	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	4 (N/A)	50.00	0.10
	Good	3 (N/A)	37.50	0.07
	Total	8 (N/A)	100.00	0.19
Black walnut	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	14.29	0.02
	Good	6 (N/A)	85.71	0.15
	Total	7 (N/A)	100.00	0.17
Blue spruce	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	12 (N/A)	23.53	0.29
	Good	39 (N/A)	76.47	0.95
	Total	51 (N/A)	100.00	1.24
Boxelder	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Callery pear	Dead or Dying	3 (N/A)	0.96	0.07
	Poor	5 (N/A)	1.60	0.12
	Fair	76 (N/A)	24.36	1.85
	Good	228 (N/A)	73.08	5.54
	Total	312 (N/A)	100.00	7.58
Chestnut oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	2 (N/A)	50.00	0.05
	Good	2 (N/A)	50.00	0.05
	Total	4 (N/A)	100.00	0.10
Columnare maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	4 (N/A)	100.00	0.10
	Total	4 (N/A)	100.00	0.10
Crabapple harvest gold	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	12 (N/A)	31.58	0.29

	Good	26 (N/A)	68.42	0.63
	Total	38 (N/A)	100.00	0.92
Crabapple Indian summer	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Crimson king maple	Dead or Dying	1 (N/A)	1.01	0.02
	Poor	1 (N/A)	1.01	0.02
	Fair	6 (N/A)	6.06	0.15
	Good	90 (N/A)	90.91	2.19
	Total	98 (N/A)	98.99	2.38
Dawn redwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07
	Total	3 (N/A)	100.00	0.07
Deodar cedar	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Dogwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	1.85	0.02
	Fair	14 (N/A)	25.93	0.34
	Good	37 (N/A)	68.52	0.90
	Total	52 (N/A)	96.30	1.26
Douglas fir	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Eastern hemlock	Dead or Dying	5 (N/A)	6.85	0.12
	Poor	7 (N/A)	9.59	0.17
	Fair	54 (N/A)	73.97	1.31
	Good	6 (N/A)	8.22	0.15
	Total	72 (N/A)	98.63	1.75
Eastern red cedar	Dead or Dying	4 (N/A)	5.48	0.10
	Poor	4 (N/A)	5.48	0.10

	Fair	35 (N/A)	47.95	0.85
	Good	30 (N/A)	41.10	0.73
	Total	73 (N/A)	100.00	1.77
Eastern redbud	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	14 (N/A)	100.00	0.34
	Total	14 (N/A)	100.00	0.34
Eastern white pine	Dead or Dying	17 (N/A)	5.23	0.41
	Poor	13 (N/A)	4.00	0.32
	Fair	128 (N/A)	39.38	3.11
	Good	166 (N/A)	51.08	4.03
	Total	324 (N/A)	99.69	7.87
Elm	Dead or Dying	3 (N/A)	8.57	0.07
	Poor	3 (N/A)	8.57	0.07
	Fair	10 (N/A)	28.57	0.24
	Good	19 (N/A)	54.29	0.46
	Total	35 (N/A)	100.00	0.85
Fir	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	8.33	0.02
	Fair	2 (N/A)	16.67	0.05
	Good	9 (N/A)	75.00	0.22
	Total	12 (N/A)	100.00	0.29
Flowering dogwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Flowering plum	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	2.63	0.02
	Fair	3 (N/A)	7.89	0.07
	Good	33 (N/A)	86.84	0.80
	Total	37 (N/A)	97.37	0.90
Goldenrain tree	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	6 (N/A)	20.69	0.15
	Fair	12 (N/A)	41.38	0.29
	Good	11 (N/A)	37.93	0.27
	Total	29 (N/A)	100.00	0.70
Gray birch	Dead or Dying	0 (N/A)	0.00	0.00

	Poor	0 (N/A)	0.00	0.00
	Fair	2 (N/A)	100.00	0.05
	Good	0 (N/A)	0.00	0.00
	Total	2 (N/A)	100.00	0.05
Hawthorn	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	33.33	0.02
	Good	2 (N/A)	66.67	0.05
	Total	3 (N/A)	100.00	0.07
Hedge maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Hickory	Dead or Dying	1 (N/A)	11.11	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	11.11	0.02
	Good	7 (N/A)	77.78	0.17
	Total	9 (N/A)	100.00	0.22
Honeylocust	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	3 (N/A)	2.03	0.07
	Fair	32 (N/A)	21.62	0.78
	Good	113 (N/A)	76.35	2.75
	Total	148 (N/A)	100.00	3.60
Horsechestnut	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	5 (N/A)	83.33	0.12
	Good	1 (N/A)	16.67	0.02
	Total	6 (N/A)	100.00	0.15
Japanese maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	5 (N/A)	16.67	0.12
	Good	23 (N/A)	76.67	0.56
	Total	28 (N/A)	93.33	0.68
Japanese pagoda tree	Dead or Dying	1 (N/A)	3.57	0.02
	Poor	1 (N/A)	3.57	0.02
	Fair	11 (N/A)	39.29	0.27
	Good	15 (N/A)	53.57	0.36
	Total	28 (N/A)	100.00	0.68

Japanese red cedar	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Japanese tree lilac	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	35 (N/A)	100.00	0.85
	Total	35 (N/A)	100.00	0.85
Kwanzan cherry	Dead or Dying	6 (N/A)	3.59	0.15
	Poor	6 (N/A)	3.59	0.15
	Fair	28 (N/A)	16.77	0.68
	Good	127 (N/A)	76.05	3.09
	Total	167 (N/A)	100.00	4.06
Leyland cypress	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Littleleaf linden	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	1.12	0.02
	Fair	6 (N/A)	6.74	0.15
	Good	81 (N/A)	91.01	1.97
	Total	88 (N/A)	98.88	2.14
Lombardy poplar	Dead or Dying	1 (N/A)	50.00	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	50.00	0.02
	Total	2 (N/A)	100.00	0.05
London planetree	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	3 (N/A)	5.77	0.07
	Fair	4 (N/A)	7.69	0.10
	Good	45 (N/A)	86.54	1.09
	Total	52 (N/A)	100.00	1.26
Magnolia	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	10.00	0.02
	Good	9 (N/A)	90.00	0.22
	Total	10 (N/A)	100.00	0.24

Maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Northern catalpa	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	3 (N/A)	60.00	0.07
	Good	2 (N/A)	40.00	0.05
	Total	5 (N/A)	100.00	0.12
Northern hackberry	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	33.33	0.02
	Fair	2 (N/A)	66.67	0.05
	Good	0 (N/A)	0.00	0.00
	Total	3 (N/A)	100.00	0.07
Northern pin oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Northern red oak	Dead or Dying	2 (N/A)	1.56	0.05
	Poor	0 (N/A)	0.00	0.00
	Fair	24 (N/A)	18.75	0.58
	Good	102 (N/A)	79.69	2.48
	Total	128 (N/A)	100.00	3.11
Norway maple	Dead or Dying	9 (N/A)	3.32	0.22
	Poor	7 (N/A)	2.58	0.17
	Fair	110 (N/A)	40.59	2.67
	Good	145 (N/A)	53.51	3.52
	Total	271 (N/A)	100.00	6.58
Norway spruce	Dead or Dying	1 (N/A)	0.85	0.02
	Poor	2 (N/A)	1.69	0.05
	Fair	25 (N/A)	21.19	0.61
	Good	90 (N/A)	76.27	2.19
	Total	118 (N/A)	100.00	2.87
Oak	Dead or Dying	2 (N/A)	4.65	0.05
	Poor	1 (N/A)	2.33	0.02
	Fair	13 (N/A)	30.23	0.32
	Good	27 (N/A)	62.79	0.66

	Total	43 (N/A)	100.00	1.04
October glory red maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	1.64	0.02
	Fair	1 (N/A)	1.64	0.02
	Good	58 (N/A)	95.08	1.41
	Total	60 (N/A)	98.36	1.46
Paper birch	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	8 (N/A)	100.00	0.19
	Total	8 (N/A)	100.00	0.19
Pin oak	Dead or Dying	1 (N/A)	0.58	0.02
	Poor	1 (N/A)	0.58	0.02
	Fair	37 (N/A)	21.39	0.90
	Good	134 (N/A)	77.46	3.26
	Total	173 (N/A)	100.00	4.20
Pine	Dead or Dying	7 (N/A)	11.86	0.17
	Poor	2 (N/A)	3.39	0.05
	Fair	28 (N/A)	47.46	0.68
	Good	22 (N/A)	37.29	0.53
	Total	59 (N/A)	100.00	1.43
Quaking aspen	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	5 (N/A)	62.50	0.12
	Good	3 (N/A)	37.50	0.07
	Total	8 (N/A)	100.00	0.19
Red maple	Dead or Dying	19 (N/A)	6.09	0.46
	Poor	13 (N/A)	4.17	0.32
	Fair	112 (N/A)	35.90	2.72
	Good	167 (N/A)	53.53	4.06
	Total	311 (N/A)	99.68	7.56
Red mulberry	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	29 (N/A)	76.32	0.70
	Good	9 (N/A)	23.68	0.22
	Total	38 (N/A)	100.00	0.92
River birch	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00

	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Sargent cherry	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Sassafras	Dead or Dying	4 (N/A)	7.69	0.10
	Poor	2 (N/A)	3.85	0.05
	Fair	23 (N/A)	44.23	0.56
	Good	23 (N/A)	44.23	0.56
	Total	52 (N/A)	100.00	1.26
Sawtooth oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Scarlet oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	50.00	0.02
	Good	1 (N/A)	50.00	0.02
	Total	2 (N/A)	100.00	0.05
Scotch pine	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Silver linden	Dead or Dying	1 (N/A)	3.85	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	3.85	0.02
	Good	24 (N/A)	92.31	0.58
	Total	26 (N/A)	100.00	0.63
Silver maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	5 (N/A)	14.71	0.12
	Fair	21 (N/A)	61.76	0.51
	Good	8 (N/A)	23.53	0.19
	Total	34 (N/A)	100.00	0.83
Spruce	Dead or Dying	7 (N/A)	2.97	0.17
	Poor	12 (N/A)	5.08	0.29

	Fair	65 (N/A)	27.54	1.58
	Good	152 (N/A)	64.41	3.69
	Total	236 (N/A)	100.00	5.73
Spruce pine	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07
	Total	3 (N/A)	100.00	0.07
Sugar maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	2 (N/A)	3.70	0.05
	Fair	12 (N/A)	22.22	0.29
	Good	40 (N/A)	74.07	0.97
	Total	54 (N/A)	100.00	1.31
Swamp white oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	8.33	0.02
	Good	11 (N/A)	91.67	0.27
	Total	12 (N/A)	100.00	0.29
Sweetgum	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	1.96	0.02
	Fair	7 (N/A)	13.73	0.17
	Good	43 (N/A)	84.31	1.04
	Total	51 (N/A)	100.00	1.24
Sycamore maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Tree of heaven	Dead or Dying	1 (N/A)	3.33	0.02
	Poor	2 (N/A)	6.67	0.05
	Fair	22 (N/A)	73.33	0.53
	Good	5 (N/A)	16.67	0.12
	Total	30 (N/A)	100.00	0.73
Tulip tree	Dead or Dying	4 (N/A)	4.35	0.10
	Poor	4 (N/A)	4.35	0.10
	Fair	24 (N/A)	26.09	0.58
	Good	60 (N/A)	65.22	1.46
	Total	92 (N/A)	100.00	2.24
Weeping willow	Dead or Dying	0 (N/A)	0.00	0.00

	Poor	1 (N/A)	100.00	0.02
	Fair	0 (N/A)	0.00	0.00
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
White oak	Dead or Dying	5 (N/A)	7.14	0.12
	Poor	4 (N/A)	5.71	0.10
	Fair	9 (N/A)	12.86	0.22
	Good	52 (N/A)	74.29	1.26
	Total	70 (N/A)	100.00	1.70
Willow	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Willow oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	7.69	0.02
	Good	12 (N/A)	92.31	0.29
	Total	13 (N/A)	100.00	0.32
Yellowwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Yew	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	50.00	0.02
	Fair	1 (N/A)	50.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	2 (N/A)	100.00	0.05
Zelkova	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	3.57	0.02
	Good	27 (N/A)	96.43	0.66
	Total	28 (N/A)	100.00	0.68

Woodcliff Lake
Functional (Foliage) Condition of All Trees by Zone
8/15/2017

Zone	Condition	Tree Count	Standard Error	% of Zone	% of All Trees
1	Dead or Dying	162 (N/A)		3.94	3.94
	Poor	134 (N/A)		3.26	3.26
	Fair	1181 (N/A)		28.69	28.69
	Good	2627 (N/A)		63.82	63.82
	Total	4104 (N/A)		99.71	99.71
Citywide	Dead or Dying	162 (N/A)		3.94	3.94
	Poor	134 (N/A)		3.26	3.26
	Fair	1181 (N/A)		28.69	28.69
	Good	2627 (N/A)		63.82	63.82
	Total	4104 (N/A)		99.71	99.71

Woodcliff Lake
Structural (Woody) Condition of All Trees by Species
8/15/2017

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
American beech	Dead or Dying	1 (N/A)		5.56	0.02
	Poor	1 (N/A)		5.56	0.02
	Fair	4 (N/A)		22.22	0.10
	Good	12 (N/A)		66.67	0.29
	Total	18 (N/A)		100.00	0.44
American holly	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	0 (N/A)		0.00	0.00
	Fair	0 (N/A)		0.00	0.00
	Good	3 (N/A)		100.00	0.07
	Total	3 (N/A)		100.00	0.07
American hornbeam	Dead or Dying	1 (N/A)		3.33	0.02
	Poor	3 (N/A)		10.00	0.07
	Fair	2 (N/A)		6.67	0.05
	Good	24 (N/A)		80.00	0.58
	Total	30 (N/A)		100.00	0.73
Ash	Dead or Dying	39 (N/A)		26.90	0.95
	Poor	17 (N/A)		11.72	0.41
	Fair	40 (N/A)		27.59	0.97
	Good	49 (N/A)		33.79	1.19
	Total	145 (N/A)		100.00	3.52
Atlantic white cedar	Dead or Dying	1 (N/A)		25.00	0.02
	Poor	0 (N/A)		0.00	0.00
	Fair	2 (N/A)		50.00	0.05
	Good	1 (N/A)		25.00	0.02
	Total	4 (N/A)		100.00	0.10
Atlas cedar	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	0 (N/A)		0.00	0.00
	Fair	0 (N/A)		0.00	0.00
	Good	8 (N/A)		100.00	0.19
	Total	8 (N/A)		100.00	0.19
Beech	Dead or Dying	0 (N/A)		0.00	0.00
	Poor	1 (N/A)		25.00	0.02
	Fair	1 (N/A)		25.00	0.02
	Good	2 (N/A)		50.00	0.05
	Total	4 (N/A)		100.00	0.10

Bigtooth aspen	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Birch	Dead or Dying	1 (N/A)	8.33	0.02
	Poor	2 (N/A)	16.67	0.05
	Fair	3 (N/A)	25.00	0.07
	Good	6 (N/A)	50.00	0.15
	Total	12 (N/A)	100.00	0.29
Black birch	Dead or Dying	2 (N/A)	7.41	0.05
	Poor	3 (N/A)	11.11	0.07
	Fair	13 (N/A)	48.15	0.32
	Good	9 (N/A)	33.33	0.22
	Total	27 (N/A)	100.00	0.66
Black cherry	Dead or Dying	9 (N/A)	10.11	0.22
	Poor	11 (N/A)	12.36	0.27
	Fair	41 (N/A)	46.07	1.00
	Good	28 (N/A)	31.46	0.68
	Total	89 (N/A)	100.00	2.16
Black cottonwood	Dead or Dying	1 (N/A)	100.00	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Black locust	Dead or Dying	2 (N/A)	8.00	0.05
	Poor	7 (N/A)	28.00	0.17
	Fair	12 (N/A)	48.00	0.29
	Good	4 (N/A)	16.00	0.10
	Total	25 (N/A)	100.00	0.61
Black oak	Dead or Dying	1 (N/A)	3.13	0.02
	Poor	1 (N/A)	3.13	0.02
	Fair	12 (N/A)	37.50	0.29
	Good	18 (N/A)	56.25	0.44
	Total	32 (N/A)	100.00	0.78
Black spruce	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07

	Total	3 (N/A)	100.00	0.07
Black tupelo	Dead or Dying	1 (N/A)	12.50	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	4 (N/A)	50.00	0.10
	Good	3 (N/A)	37.50	0.07
	Total	8 (N/A)	100.00	0.19
Black walnut	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	4 (N/A)	57.14	0.10
	Good	3 (N/A)	42.86	0.07
	Total	7 (N/A)	100.00	0.17
Blue spruce	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	1.96	0.02
	Fair	13 (N/A)	25.49	0.32
	Good	37 (N/A)	72.55	0.90
	Total	51 (N/A)	100.00	1.24
Boxelder	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Callery pear	Dead or Dying	3 (N/A)	0.96	0.07
	Poor	74 (N/A)	23.72	1.80
	Fair	87 (N/A)	27.88	2.11
	Good	148 (N/A)	47.44	3.60
	Total	312 (N/A)	100.00	7.58
Chestnut oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	4 (N/A)	100.00	0.10
	Good	0 (N/A)	0.00	0.00
	Total	4 (N/A)	100.00	0.10
Columnare maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	4 (N/A)	100.00	0.10
	Total	4 (N/A)	100.00	0.10
Crabapple harvest gold	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	5 (N/A)	13.16	0.12
	Fair	18 (N/A)	47.37	0.44

	Good	15 (N/A)	39.47	0.36
	Total	38 (N/A)	100.00	0.92
Crabapple Indian summer	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Crimson king maple	Dead or Dying	1 (N/A)	1.01	0.02
	Poor	5 (N/A)	5.05	0.12
	Fair	9 (N/A)	9.09	0.22
	Good	84 (N/A)	84.85	2.04
	Total	99 (N/A)	100.00	2.41
Dawn redwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07
	Total	3 (N/A)	100.00	0.07
Deodar cedar	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Dogwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	4 (N/A)	7.41	0.10
	Fair	16 (N/A)	29.63	0.39
	Good	33 (N/A)	61.11	0.80
	Total	53 (N/A)	98.15	1.29
Douglas fir	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Eastern hemlock	Dead or Dying	5 (N/A)	6.85	0.12
	Poor	8 (N/A)	10.96	0.19
	Fair	53 (N/A)	72.60	1.29
	Good	7 (N/A)	9.59	0.17
	Total	73 (N/A)	100.00	1.77
Eastern red cedar	Dead or Dying	4 (N/A)	5.48	0.10
	Poor	5 (N/A)	6.85	0.12

	Fair	32 (N/A)	43.84	0.78
	Good	32 (N/A)	43.84	0.78
	Total	73 (N/A)	100.00	1.77
Eastern redbud	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	7.14	0.02
	Fair	1 (N/A)	7.14	0.02
	Good	12 (N/A)	85.71	0.29
	Total	14 (N/A)	100.00	0.34
Eastern white pine	Dead or Dying	16 (N/A)	4.92	0.39
	Poor	27 (N/A)	8.31	0.66
	Fair	132 (N/A)	40.62	3.21
	Good	149 (N/A)	45.85	3.62
	Total	324 (N/A)	99.69	7.87
Elm	Dead or Dying	3 (N/A)	8.57	0.07
	Poor	5 (N/A)	14.29	0.12
	Fair	8 (N/A)	22.86	0.19
	Good	19 (N/A)	54.29	0.46
	Total	35 (N/A)	100.00	0.85
Fir	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	2 (N/A)	16.67	0.05
	Fair	0 (N/A)	0.00	0.00
	Good	10 (N/A)	83.33	0.24
	Total	12 (N/A)	100.00	0.29
Flowering dogwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Flowering plum	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	3 (N/A)	7.89	0.07
	Fair	5 (N/A)	13.16	0.12
	Good	30 (N/A)	78.95	0.73
	Total	38 (N/A)	100.00	0.92
Goldenrain tree	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	5 (N/A)	17.24	0.12
	Fair	15 (N/A)	51.72	0.36
	Good	9 (N/A)	31.03	0.22
	Total	29 (N/A)	100.00	0.70
Gray birch	Dead or Dying	0 (N/A)	0.00	0.00

	Poor	1 (N/A)	50.00	0.02
	Fair	1 (N/A)	50.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	2 (N/A)	100.00	0.05
Hawthorn	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07
	Total	3 (N/A)	100.00	0.07
Hedge maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Hickory	Dead or Dying	1 (N/A)	11.11	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	3 (N/A)	33.33	0.07
	Good	5 (N/A)	55.56	0.12
	Total	9 (N/A)	100.00	0.22
Honeylocust	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	5 (N/A)	3.38	0.12
	Fair	52 (N/A)	35.14	1.26
	Good	91 (N/A)	61.49	2.21
	Total	148 (N/A)	100.00	3.60
Horsechestnut	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	16.67	0.02
	Fair	4 (N/A)	66.67	0.10
	Good	1 (N/A)	16.67	0.02
	Total	6 (N/A)	100.00	0.15
Japanese maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	5 (N/A)	16.67	0.12
	Fair	2 (N/A)	6.67	0.05
	Good	23 (N/A)	76.67	0.56
	Total	30 (N/A)	100.00	0.73
Japanese pagoda tree	Dead or Dying	1 (N/A)	3.57	0.02
	Poor	4 (N/A)	14.29	0.10
	Fair	10 (N/A)	35.71	0.24
	Good	13 (N/A)	46.43	0.32
	Total	28 (N/A)	100.00	0.68

Japanese red cedar	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Japanese tree lilac	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	7 (N/A)	20.00	0.17
	Good	27 (N/A)	77.14	0.66
	Total	34 (N/A)	97.14	0.83
Kwanzan cherry	Dead or Dying	7 (N/A)	4.19	0.17
	Poor	24 (N/A)	14.37	0.58
	Fair	51 (N/A)	30.54	1.24
	Good	85 (N/A)	50.90	2.07
	Total	167 (N/A)	100.00	4.06
Leyland cypress	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Littleleaf linden	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	2 (N/A)	2.25	0.05
	Fair	18 (N/A)	20.22	0.44
	Good	69 (N/A)	77.53	1.68
	Total	89 (N/A)	100.00	2.16
Lombardy poplar	Dead or Dying	1 (N/A)	50.00	0.02
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	50.00	0.02
	Total	2 (N/A)	100.00	0.05
London planetree	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	3 (N/A)	5.77	0.07
	Fair	11 (N/A)	21.15	0.27
	Good	38 (N/A)	73.08	0.92
	Total	52 (N/A)	100.00	1.26
Magnolia	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	10.00	0.02
	Good	9 (N/A)	90.00	0.22
	Total	10 (N/A)	100.00	0.24

Maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Northern catalpa	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	3 (N/A)	60.00	0.07
	Good	2 (N/A)	40.00	0.05
	Total	5 (N/A)	100.00	0.12
Northern hackberry	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	33.33	0.02
	Fair	2 (N/A)	66.67	0.05
	Good	0 (N/A)	0.00	0.00
	Total	3 (N/A)	100.00	0.07
Northern pin oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Northern red oak	Dead or Dying	2 (N/A)	1.56	0.05
	Poor	4 (N/A)	3.13	0.10
	Fair	40 (N/A)	31.25	0.97
	Good	82 (N/A)	64.06	1.99
	Total	128 (N/A)	100.00	3.11
Norway maple	Dead or Dying	10 (N/A)	3.69	0.24
	Poor	36 (N/A)	13.28	0.87
	Fair	112 (N/A)	41.33	2.72
	Good	113 (N/A)	41.70	2.75
	Total	271 (N/A)	100.00	6.58
Norway spruce	Dead or Dying	1 (N/A)	0.85	0.02
	Poor	4 (N/A)	3.39	0.10
	Fair	29 (N/A)	24.58	0.70
	Good	84 (N/A)	71.19	2.04
	Total	118 (N/A)	100.00	2.87
Oak	Dead or Dying	2 (N/A)	4.65	0.05
	Poor	5 (N/A)	11.63	0.12
	Fair	15 (N/A)	34.88	0.36
	Good	21 (N/A)	48.84	0.51

	Total	43 (N/A)	100.00	1.04
October glory red maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	1.64	0.02
	Fair	5 (N/A)	8.20	0.12
	Good	54 (N/A)	88.52	1.31
	Total	60 (N/A)	98.36	1.46
Paper birch	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	12.50	0.02
	Good	7 (N/A)	87.50	0.17
	Total	8 (N/A)	100.00	0.19
Pin oak	Dead or Dying	1 (N/A)	0.58	0.02
	Poor	9 (N/A)	5.20	0.22
	Fair	52 (N/A)	30.06	1.26
	Good	111 (N/A)	64.16	2.70
	Total	173 (N/A)	100.00	4.20
Pine	Dead or Dying	7 (N/A)	11.86	0.17
	Poor	3 (N/A)	5.08	0.07
	Fair	30 (N/A)	50.85	0.73
	Good	19 (N/A)	32.20	0.46
	Total	59 (N/A)	100.00	1.43
Quaking aspen	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	12.50	0.02
	Fair	4 (N/A)	50.00	0.10
	Good	3 (N/A)	37.50	0.07
	Total	8 (N/A)	100.00	0.19
Red maple	Dead or Dying	19 (N/A)	6.09	0.46
	Poor	50 (N/A)	16.03	1.21
	Fair	97 (N/A)	31.09	2.36
	Good	146 (N/A)	46.79	3.55
	Total	312 (N/A)	100.00	7.58
Red mulberry	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	3 (N/A)	7.89	0.07
	Fair	30 (N/A)	78.95	0.73
	Good	5 (N/A)	13.16	0.12
	Total	38 (N/A)	100.00	0.92
River birch	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00

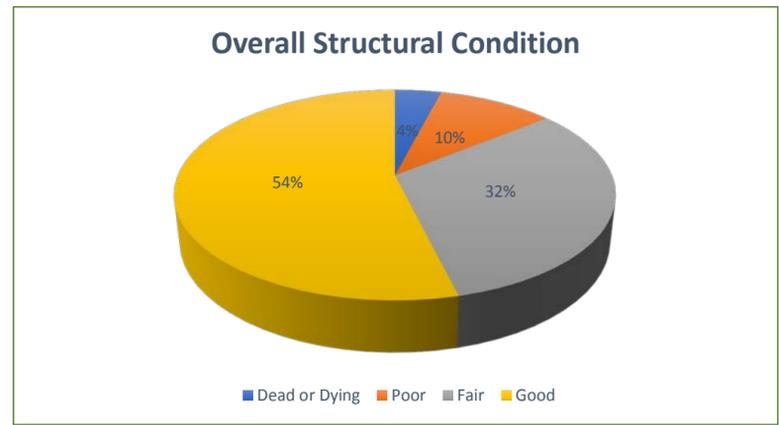
	Good	2 (N/A)	100.00	0.05
	Total	2 (N/A)	100.00	0.05
Sargent cherry	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Sassafras	Dead or Dying	4 (N/A)	7.69	0.10
	Poor	3 (N/A)	5.77	0.07
	Fair	31 (N/A)	59.62	0.75
	Good	14 (N/A)	26.92	0.34
	Total	52 (N/A)	100.00	1.26
Sawtooth oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Scarlet oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	50.00	0.02
	Good	1 (N/A)	50.00	0.02
	Total	2 (N/A)	100.00	0.05
Scotch pine	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	1 (N/A)	100.00	0.02
	Total	1 (N/A)	100.00	0.02
Silver linden	Dead or Dying	1 (N/A)	3.85	0.02
	Poor	2 (N/A)	7.69	0.05
	Fair	3 (N/A)	11.54	0.07
	Good	20 (N/A)	76.92	0.49
	Total	26 (N/A)	100.00	0.63
Silver maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	14 (N/A)	41.18	0.34
	Fair	15 (N/A)	44.12	0.36
	Good	5 (N/A)	14.71	0.12
	Total	34 (N/A)	100.00	0.83
Spruce	Dead or Dying	7 (N/A)	2.97	0.17
	Poor	15 (N/A)	6.36	0.36

	Fair	60 (N/A)	25.42	1.46
	Good	154 (N/A)	65.25	3.74
	Total	236 (N/A)	100.00	5.73
Spruce pine	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	0 (N/A)	0.00	0.00
	Good	3 (N/A)	100.00	0.07
	Total	3 (N/A)	100.00	0.07
Sugar maple	Dead or Dying	1 (N/A)	1.85	0.02
	Poor	6 (N/A)	11.11	0.15
	Fair	9 (N/A)	16.67	0.22
	Good	38 (N/A)	70.37	0.92
	Total	54 (N/A)	100.00	1.31
Swamp white oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	8.33	0.02
	Good	11 (N/A)	91.67	0.27
	Total	12 (N/A)	100.00	0.29
Sweetgum	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	2 (N/A)	3.92	0.05
	Fair	8 (N/A)	15.69	0.19
	Good	41 (N/A)	80.39	1.00
	Total	51 (N/A)	100.00	1.24
Sycamore maple	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	1 (N/A)	100.00	0.02
	Fair	0 (N/A)	0.00	0.00
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Tree of heaven	Dead or Dying	1 (N/A)	3.33	0.02
	Poor	4 (N/A)	13.33	0.10
	Fair	21 (N/A)	70.00	0.51
	Good	4 (N/A)	13.33	0.10
	Total	30 (N/A)	100.00	0.73
Tulip tree	Dead or Dying	5 (N/A)	5.43	0.12
	Poor	9 (N/A)	9.78	0.22
	Fair	26 (N/A)	28.26	0.63
	Good	51 (N/A)	55.43	1.24
	Total	91 (N/A)	98.91	2.21
Weeping willow	Dead or Dying	0 (N/A)	0.00	0.00

	Poor	1 (N/A)	100.00	0.02
	Fair	0 (N/A)	0.00	0.00
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
White oak	Dead or Dying	5 (N/A)	7.14	0.12
	Poor	8 (N/A)	11.43	0.19
	Fair	12 (N/A)	17.14	0.29
	Good	45 (N/A)	64.29	1.09
	Total	70 (N/A)	100.00	1.70
Willow	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Willow oak	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	2 (N/A)	15.38	0.05
	Good	11 (N/A)	84.62	0.27
	Total	13 (N/A)	100.00	0.32
Yellowwood	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	1 (N/A)	100.00	0.02
	Good	0 (N/A)	0.00	0.00
	Total	1 (N/A)	100.00	0.02
Yew	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	2 (N/A)	100.00	0.05
	Good	0 (N/A)	0.00	0.00
	Total	2 (N/A)	100.00	0.05
Zelkova	Dead or Dying	0 (N/A)	0.00	0.00
	Poor	0 (N/A)	0.00	0.00
	Fair	2 (N/A)	7.14	0.05
	Good	26 (N/A)	92.86	0.63
	Total	28 (N/A)	100.00	0.68

Woodcliff Lake
 Structural (Woody) Condition of All Trees by Zone
 8/15/2017

Zone	Condition	Tree Count	Standard Error	% of Zone	% of All Trees
1	Dead or Dying	167 (N/A)		4.06	4.06
	Poor	418 (N/A)		10.16	10.16
	Fair	1311 (N/A)		31.85	31.85
	Good	2215 (N/A)		53.81	53.81
	Total	4111 (N/A)		99.88	99.88
Citywide	Dead or Dying	167 (N/A)		4.06	4.06
	Poor	418 (N/A)		10.16	10.16
	Fair	1311 (N/A)		31.85	31.85
	Good	2215 (N/A)		53.81	53.81
	Total	4111 (N/A)		99.88	99.88

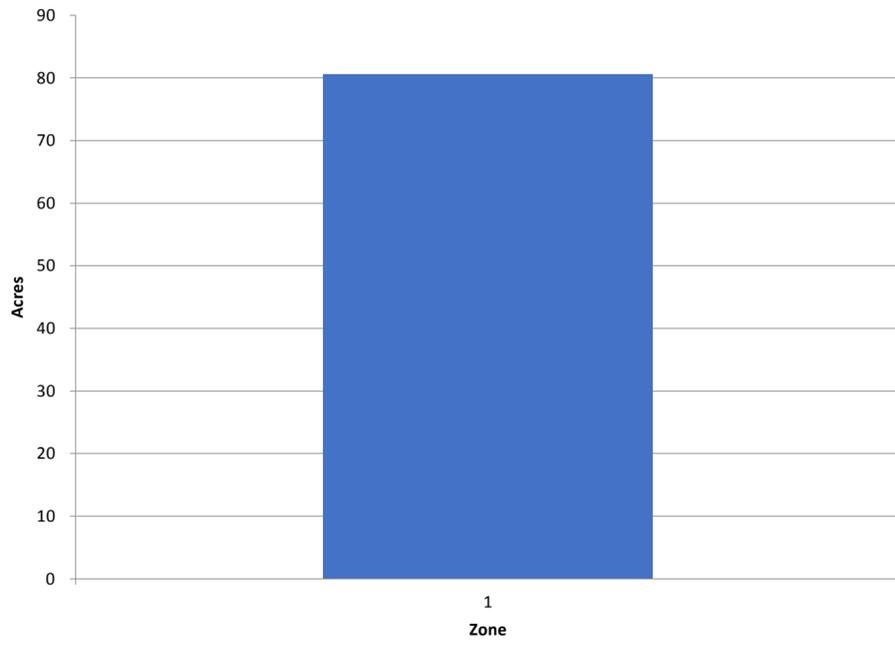


Woodcliff Lake
 Canopy Cover of All Trees (Acres)
 8/15/2017

Zone	Acres	% of Total Canopy
1	80.53	100.00
Citywide Total	80.53	100.00

	Total Land Area	Total Street and Sidewalk Area	Total Canopy Cover	Canopy Cover as % of Total Land Area	Canopy Cover as % of Total Streets and Sidewalks
Citywide Total	0.00	0.00	80.53	0.00	0.00

Canopy Cover of All Trees (Acres)



Appendix #6:

DPW Agreement with Shade Tree Committee

DPW-Shade Tree

To review and understand how STC and DPW can work together most effectively and harmoniously in the future Dave Antoine and Clay Bosch met together on Oct.27 and discussed the following;

1. Communications
 - A. Email available - Dave - dpw@wclnj.com
 - B. STC meeting agenda, minutes will be sent to DPW
 - C. Dave will attend STC meetings when possible (hopefully as a member)
2. Feedback
 - A. Citizen complaints received by DPW will generally be reviewed with STC
 - b. DPW will advise STC/CO of possible Tree Ordinance violations
3. Street Trees - Woodcliff Lake
 - A.DPW can/will plant new trees as requested, with available personnel
 - B.DPW can/will prune trees (height limitation)
 - C.DPW can/will remove dead/hazardous trees; if size is a limit, work may be contracted out
4. Street trees - County
 - A DPW may remove dead/hazardous trees, subject to size and manpower constraints
5. Budgets
DPW/STC budgets usually overlap and supplement one another (no problems foreseen)

CJB

 11/1/10

Appendix #7:

2017 Municipal Tree Budget Detail



**BOROUGH OF WOODCLIFF LAKE
OFFICE OF THE ADMINISTRATOR**

MEMORANDUM

DATE: **September 14, 2017**
TO: Marilyn Clark
FROM: Tomas J. Padilla, Borough Administrator
RE: Community Forestry Expenditures

Marilyn,

As requested here is a breakdown of expenses – many of these are yet to be done, therefore I am provided our best estimate.

DPW Labor	\$ 15,000.00
Administration Time	\$ 1,000.00
Materials	
Trees/Shrubs – purchase & installation <i>*(Included a grant of \$19,260)</i>	\$ 23,143.00*
Leaf/Wood Waste Processing	
Log Disposal	\$ 1,500.00
Leaf/Brush Disposal/Recycle to date	\$ 65,000.00
Total to date:	\$ 105,643.00
Per Capita Cost	\$ 18.15

Per capita computed using population of 5,820 for the Borough.



***BOROUGH OF WOODCLIFF LAKE
OFFICE OF THE ADMINISTRATOR***

MEMORANDUM

DATE: December 15, 2016
TO: Marilyn Clark
FROM: Tomas J. Padilla, Borough Administrator
RE: Community Forestry Expenditures

Marilyn,

As requested here is a breakdown as of November 30, 2016.

DPW Labor	\$ 15,000.00
Stump Removal	\$ 2,400.00
We do not anticipate any cost for December 2016, but if we do, will advise you.	
Administration Time	\$ 1,000.00
Materials	
Trees/Shrubs – purchase & installation	\$ 12,742.00
Leaf/Wood Waste Processing	
Log Disposal	\$ 900.00
	\$ 0 – Est. for Dec 2016
Leaf/Brush Disposal/Recycle to date	\$ 47,142.85
	\$ 30,000 – Est. for Dec 2016
Total to date:	\$ 79,184.85
Per Capita Cost	\$ 13.60
Total if we include Dec'16 estimates	\$ 109,184.85
Per Capita Cost	\$ 18.76

Per capita computed using population of 5,820 for the Borough.