

The Future City is a Green City

Jennifer Greenfeld, Assistant Commissioner
New York City Parks and Recreation



Parks



Rogers Av







SOUTH PACIFIC

MAXIMUM PERFORMANCE

THIS TELL-GOOD MUSICAL IS A PHENOMENON!
MAMMA MIA!

TOSHIBA

CHEVROLET

Chrysler

Kodak

UFC

SONS OF ANARCHY
SEPT 3
WEDS 10 F

Bank of America
(212) 260-2957 to Play



NEW YORK
BBB-6963

TITAN

EXPLORER

EXPLORER

215W88



PARK







48

AS-2152



Central Park



The Highline



Cunningham Park, Queens



Van Cortlandt Park, Bronx



Inwood Hill Park, Manhattan

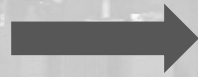


The Bronx River



Conference House Park, Staten Island

NYC



8.5
million
people

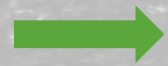


205,000
acres of
land



22%
tree
canopy
cover

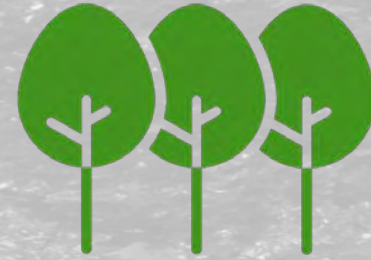
NYC Parks



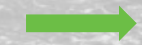
300
forestry
staff



30,000
acres of
parkland



4.1
million
trees



822,759
managed
street and park
trees



**New York
City's tree
canopy is
*increasing.***

2017

+1.7%
(3,252 acres)

2010







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Plant Trees





Plant Trees



Maintain Existing Canopy



Involve People

Plant Trees

1. Grow Good Trees
2. Make Space for Trees to Thrive
3. Plant to Maximize Benefits



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Grow Good Trees



grow

Sure supply of bespoke trees grown for NYC Parks under long term contracts with two nurseries

care

High quality, selective, and diverse pallet of species cultivated and shaped for urban life

dig

Special equipment, and protective wrapping, and gentle handling maximizes root retention

deliver

Tree planting contractor “accepts” trees from nursery for planting on the streets of NYC

Grow Good Trees



Collect Local Seed

Find ecotypical sources and follow strict collection protocols

Store Properly

For short term and long term use

Propagate

Be persistent in producing difficult species not commercially available

Grow to Size

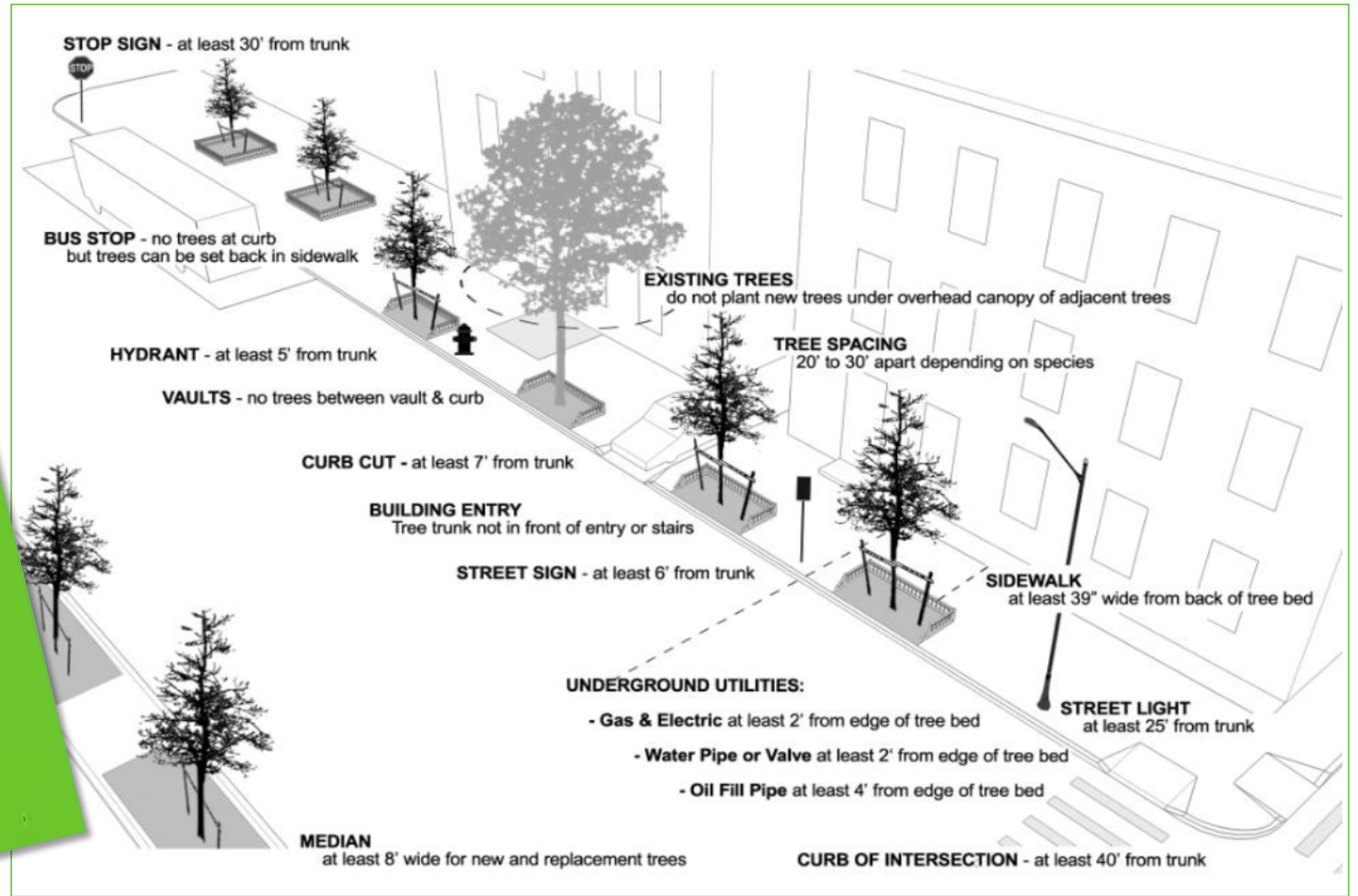
Partner with local nurseries



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Make Space for Trees



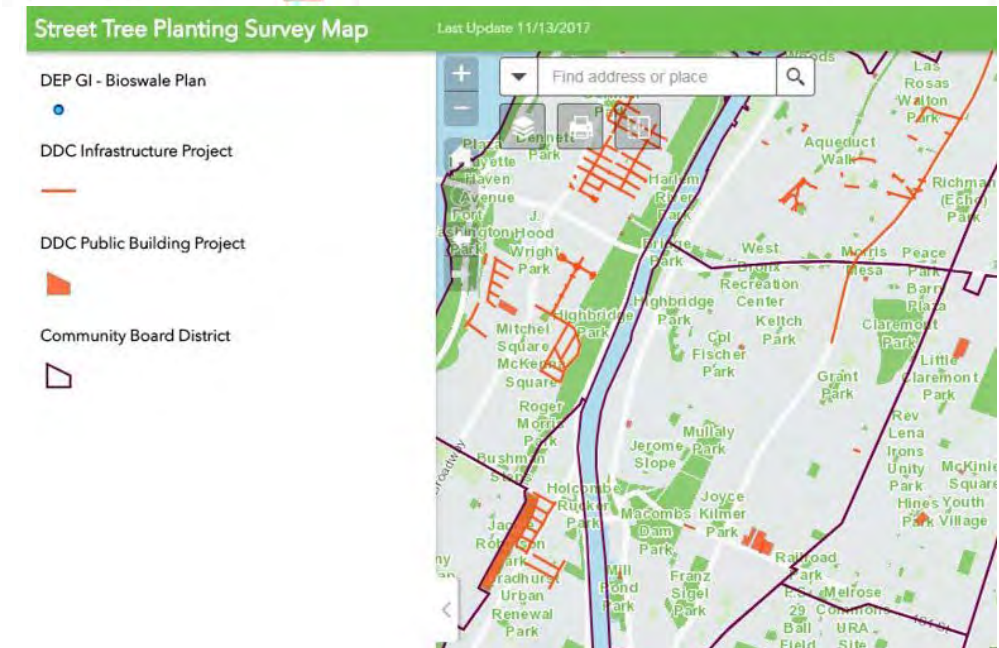
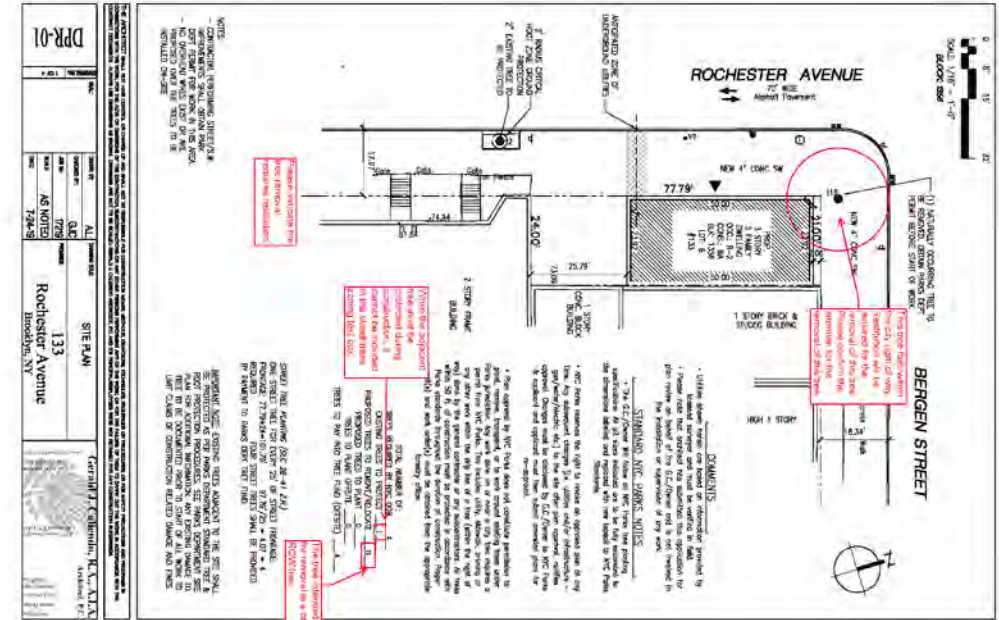
Make Space for Trees



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Make Space for Trees

- Involve planners and designers early
- Use all available technologies
 - ❑ mobile tools
 - ❑ structural soil



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NYC's Tree Canopy Benefits




**ANNUAL
POLLUTANT
REMOVAL**

1,300
tons
\$77
million



**ANNUAL
AVOIDED
RUNOFF**

69
million cubic
feet
\$5
million



**ANNUAL
CARBON
SEQUESTRATION**

51,000
tons
\$7
million



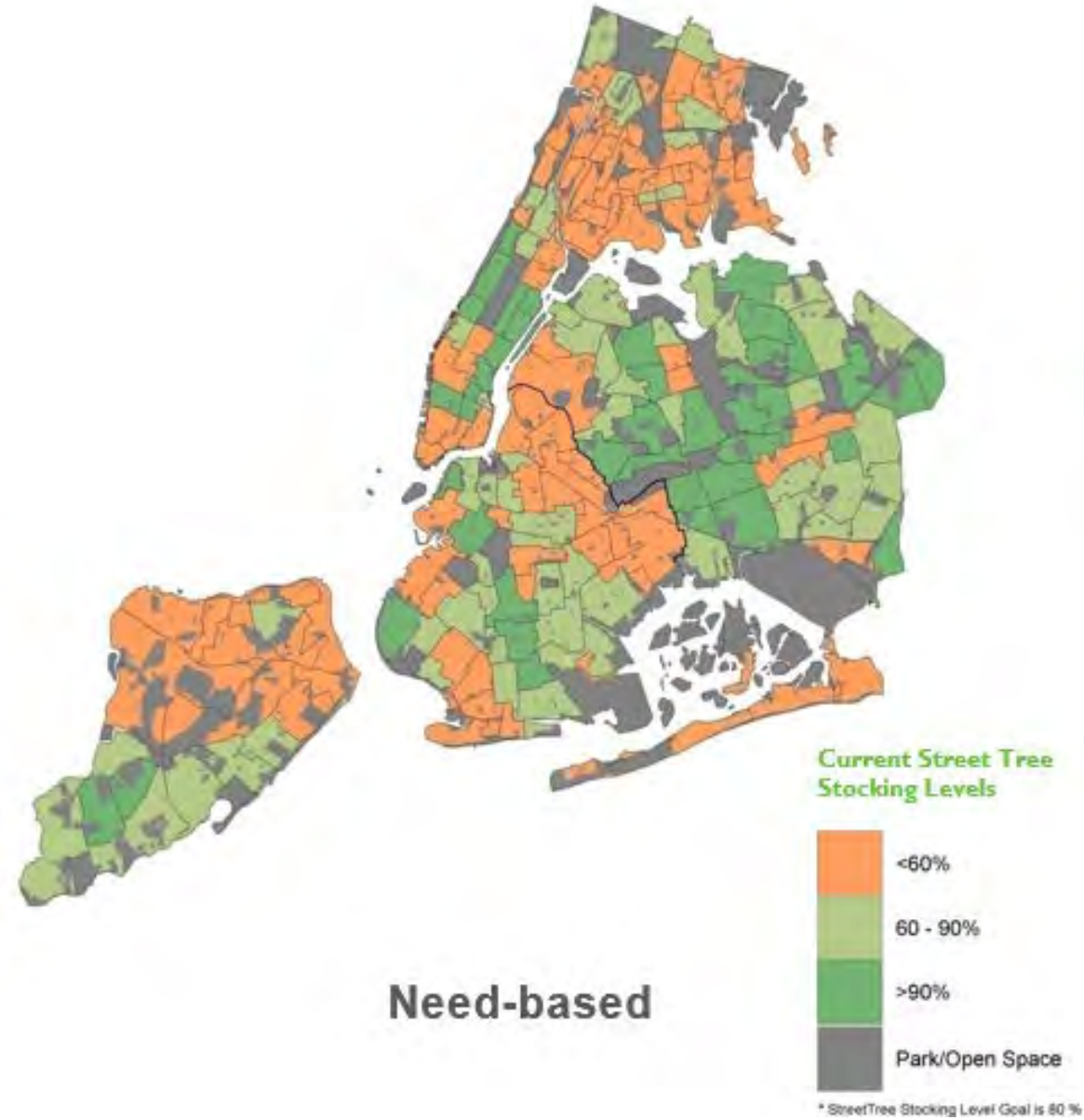
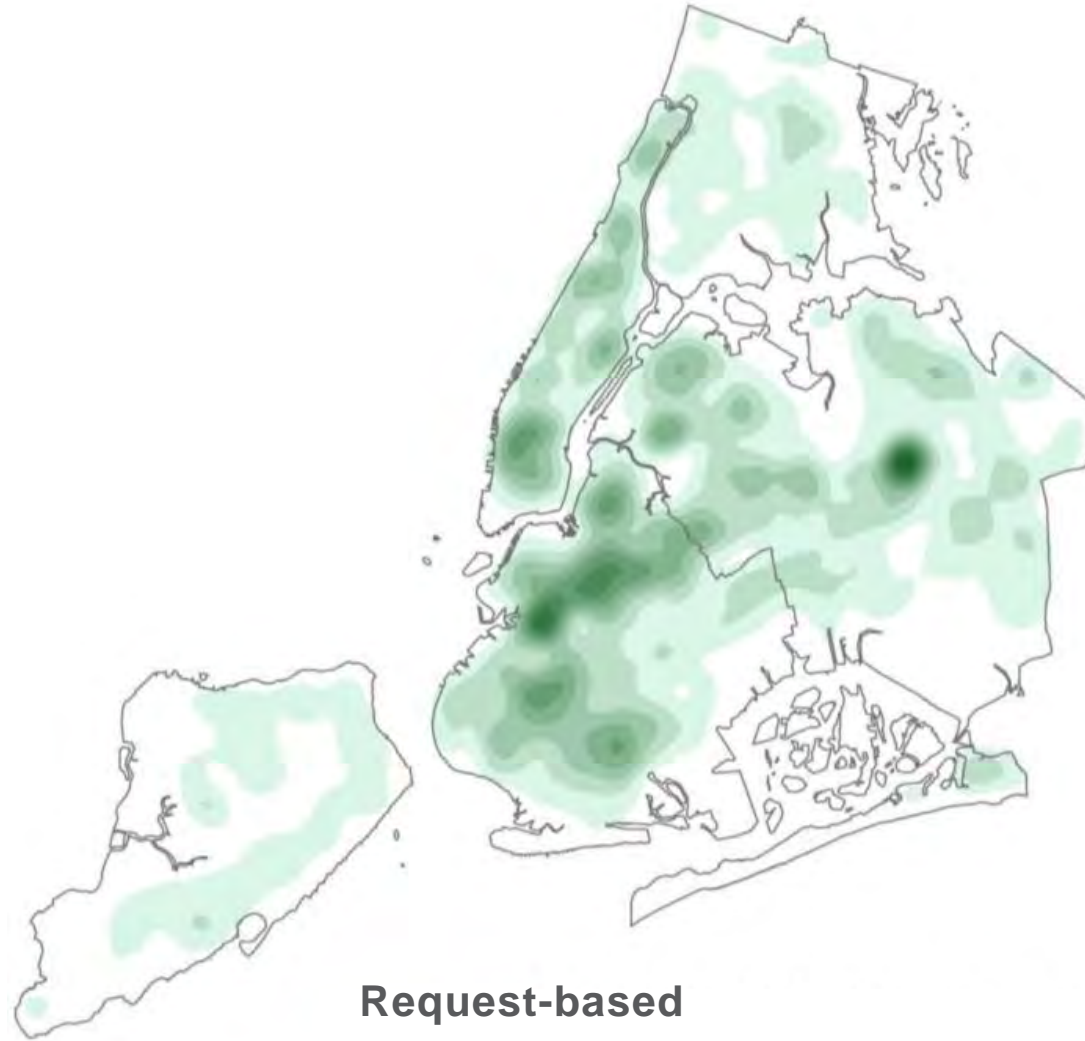
**CARBON
STORAGE**

1.2
Million tons
\$153
million



NYC Parks

Plant to Maximize Benefits



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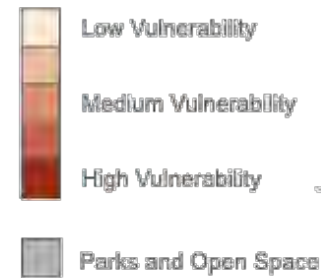
Plant to Maximize Benefits

Cool Neighborhoods

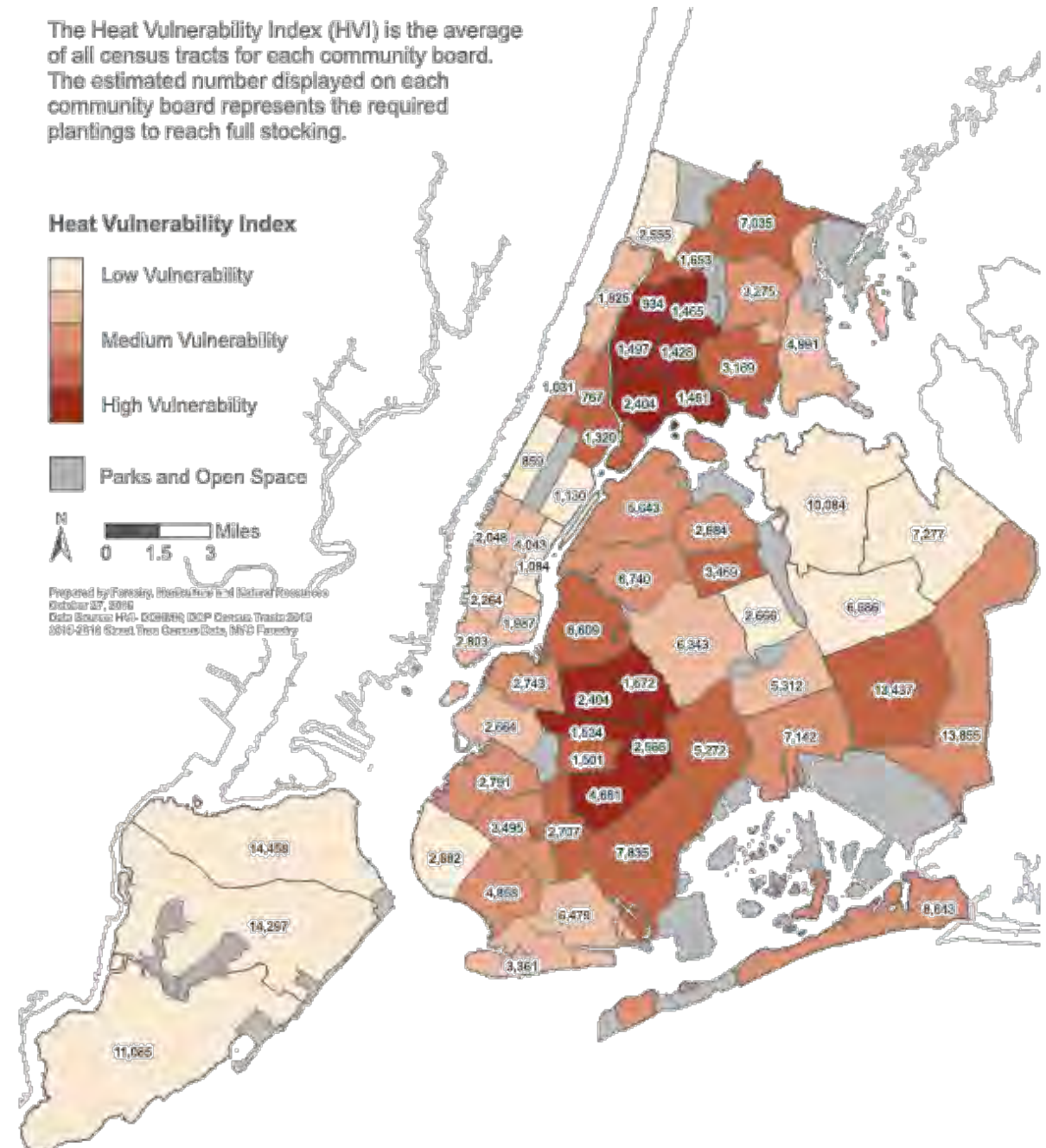
- Reduce the City's heat-related health impacts
- Improve local air quality
- Reduce ozone and greenhouse gas emissions
- Reduce the urban heat island effect

The Heat Vulnerability Index (HVI) is the average of all census tracts for each community board. The estimated number displayed on each community board represents the required plantings to reach full stocking.

Heat Vulnerability Index



Prepared by Forestry, Horticulture and Natural Resources
October 27, 2016
Data Source: MTA - DCHMR, DCP Census Tracts 2010
2010-2016 Street View Census Data, NYU Forestry



Plant to Maximize Benefits

URBAN MULTI-STORY FOREST

Animals

Environmental
Factors

People



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Maintain Existing Canopy

1. Resolve conflicts
2. Protect trees
3. Promote tree health

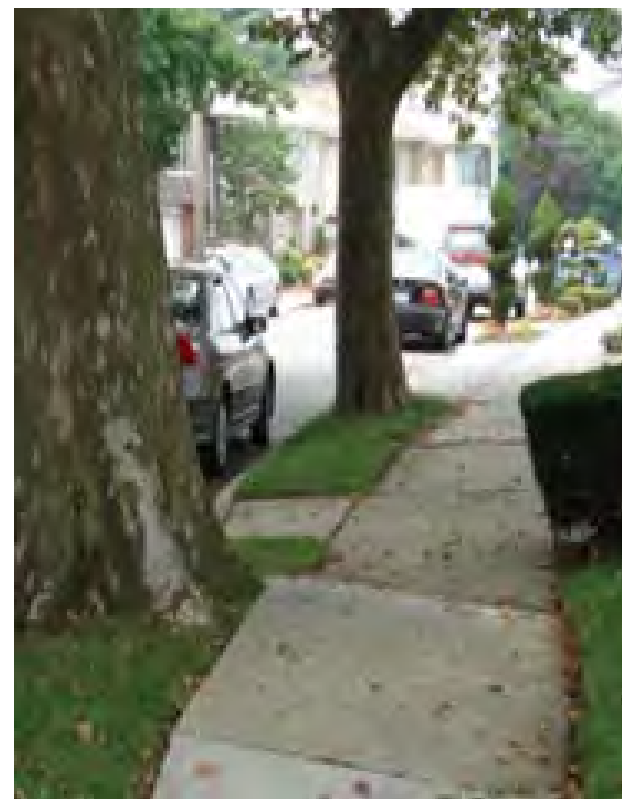


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Resolve Conflicts

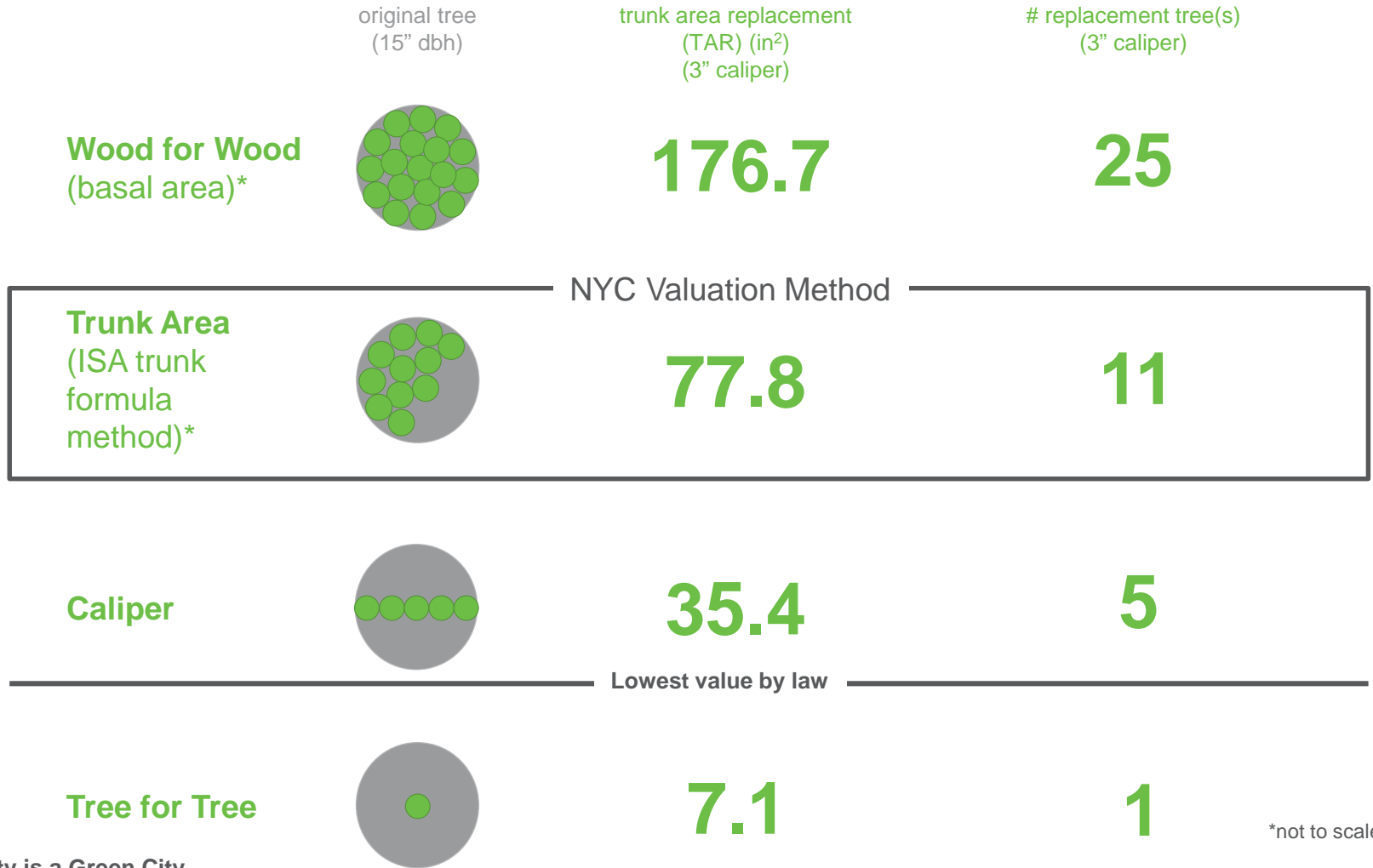
Sidewalk Repair Program



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Protect Trees

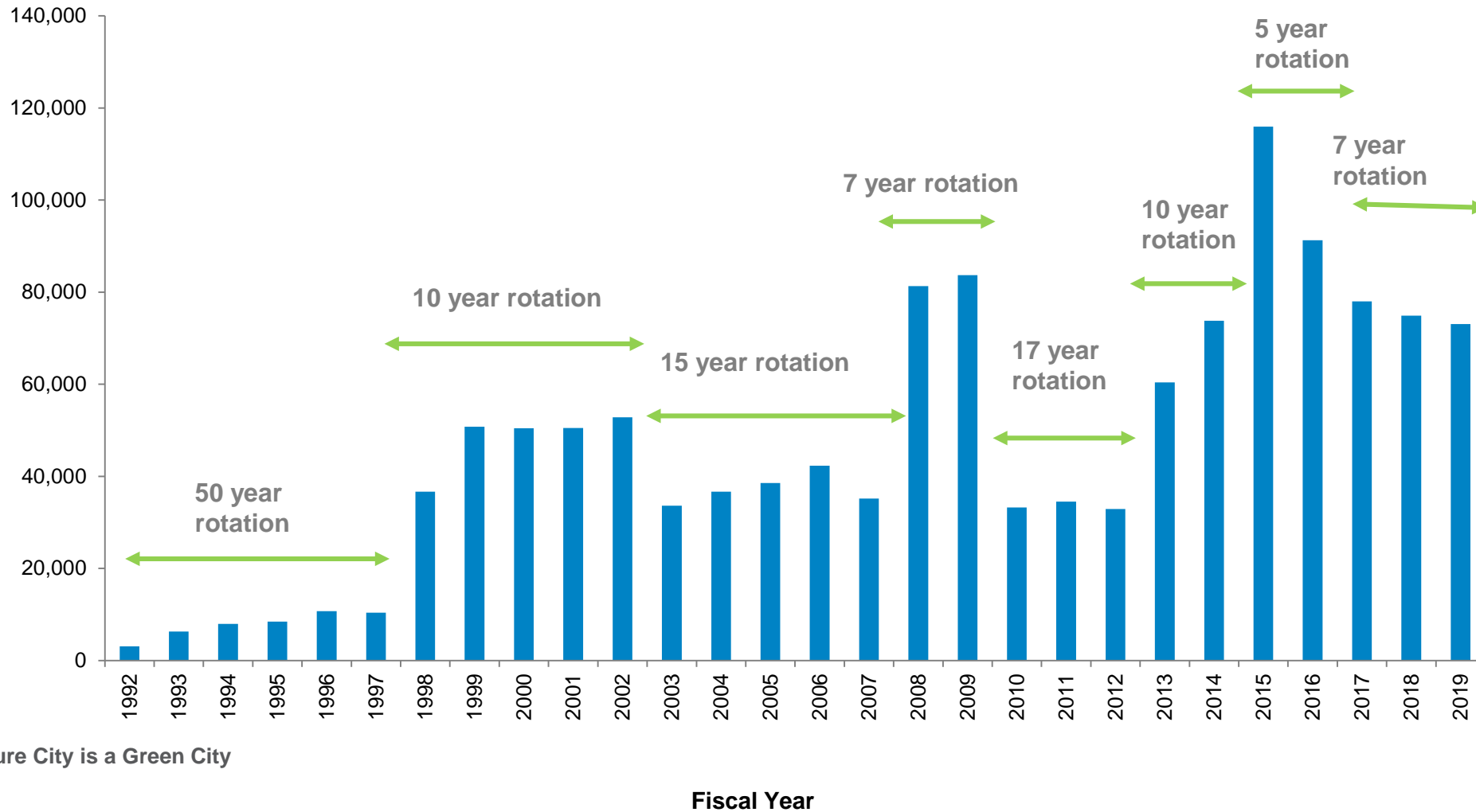
Tree Replacement Requirements



*not to scale

Promote Tree Health

Pruning Cycle—11 year average

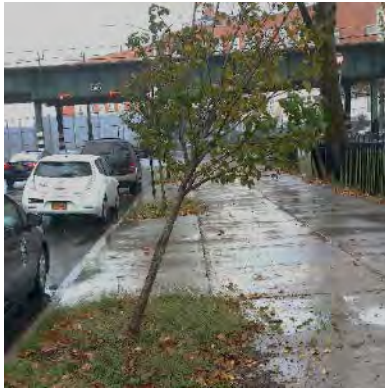
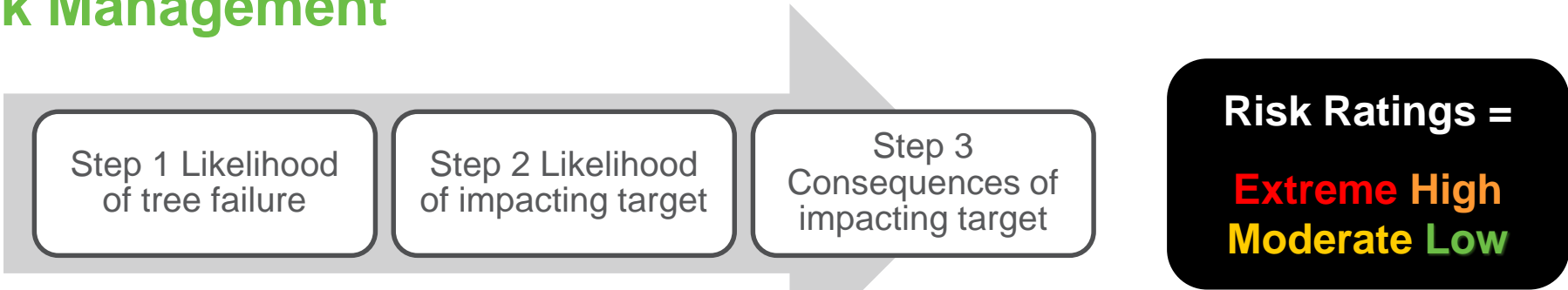


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Fiscal Year

Promote Tree Health

Tree Risk Management



Low

Failure: Imminent
Impact: Medium
Consequence: Negligible



Moderate

Failure: Possible
Likelihood: High
Consequences: Significant



High

Failure: Probable
Impact: High
Consequence: Significant



Extreme

Failure: Imminent
Likelihood: High
Consequences: Severe

Promote Tree Health

Pest and Disease Management



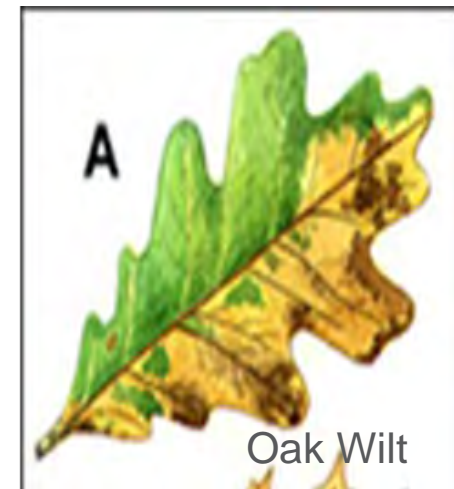
Asian Longhorned Beetle



Emerald Ash Borer



Spotted Lanternfly



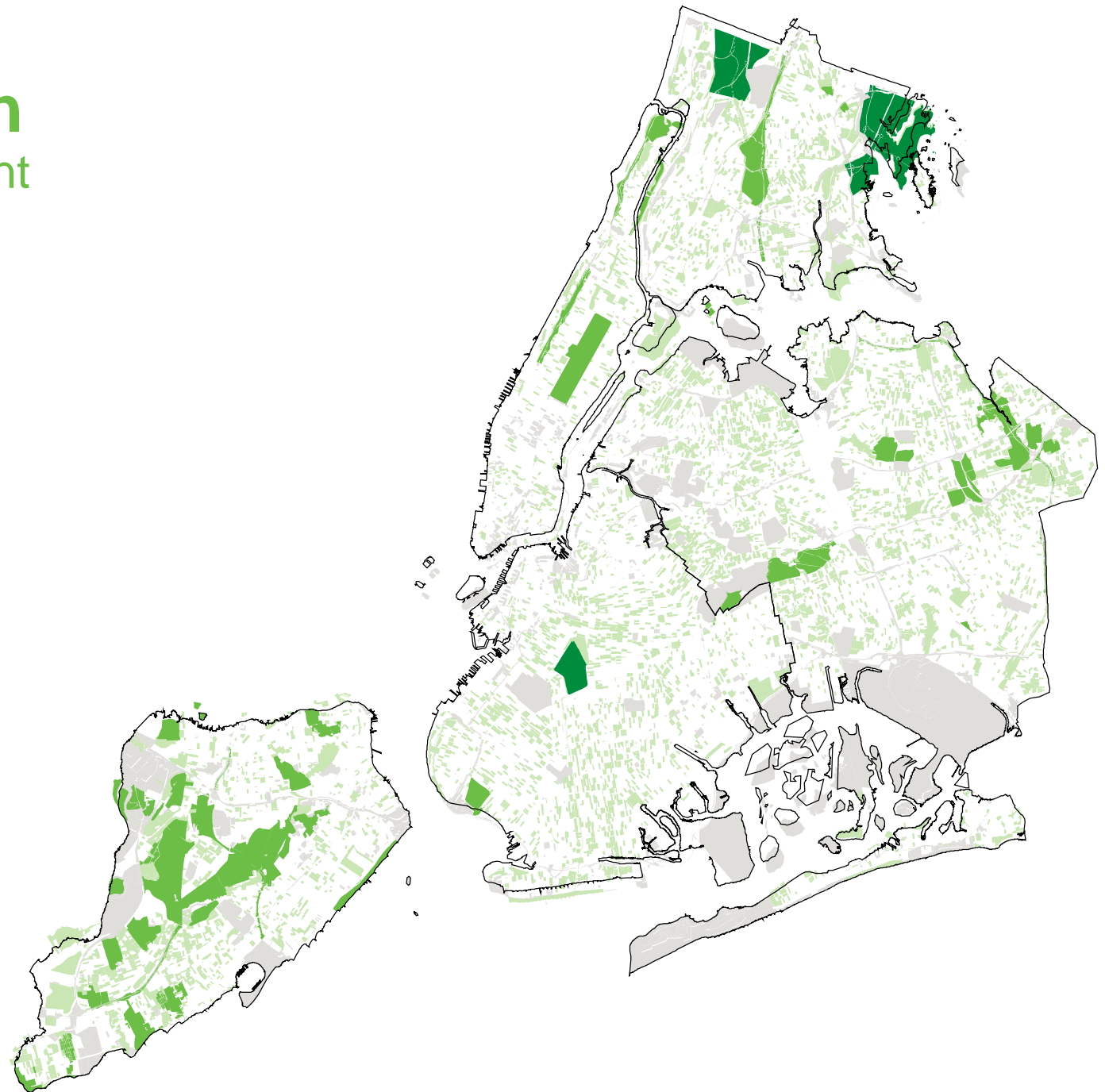
Oak Wilt

Promote Tree Health

Pest and Disease Management

Emerald Ash Borer Management

1. Inventory
2. Inspect
3. Remove hazardous ash
4. Treat healthy ash
5. Replace
6. Monitor



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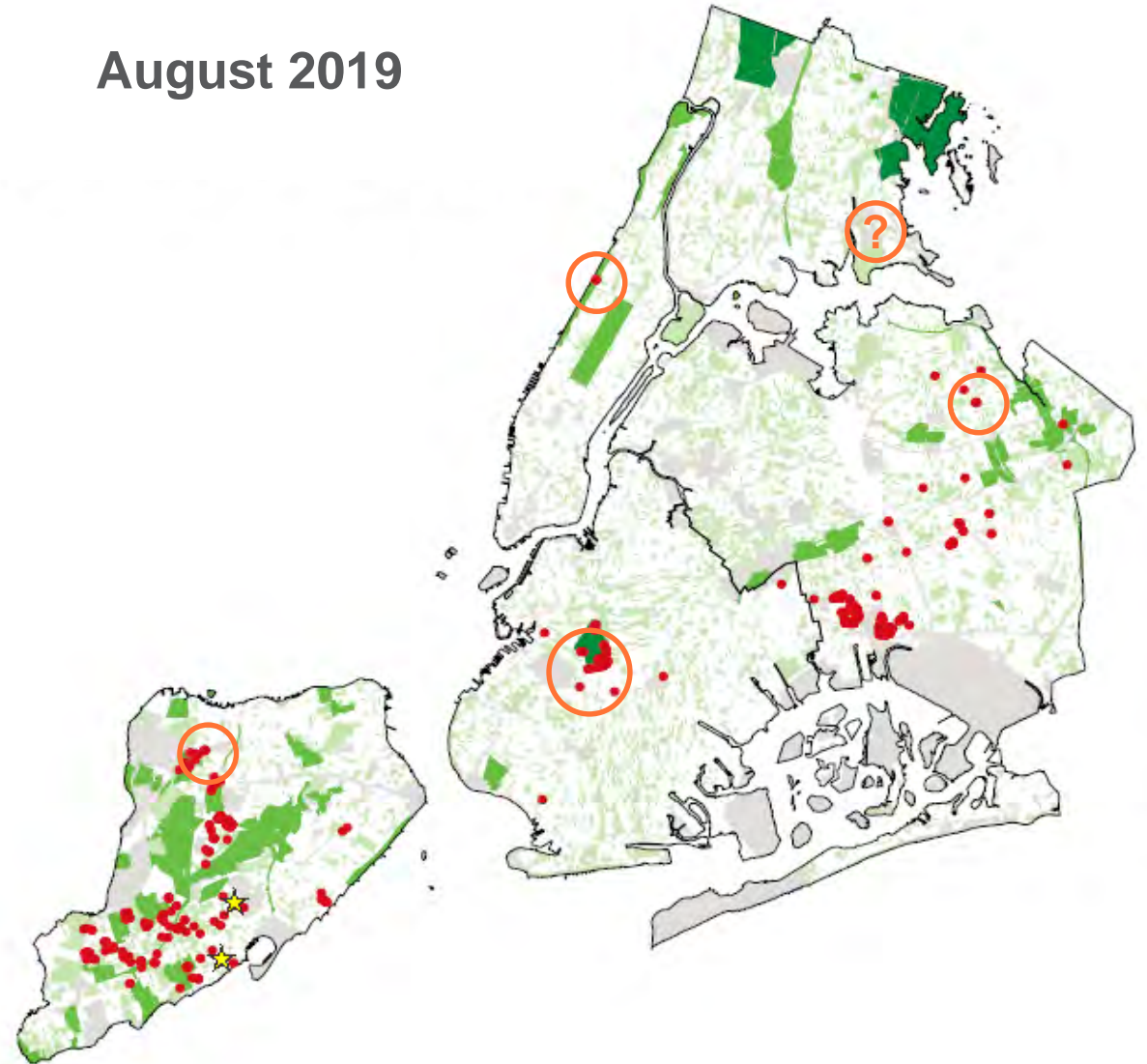
Promote Tree Health

Pest and Disease Management

November 2017



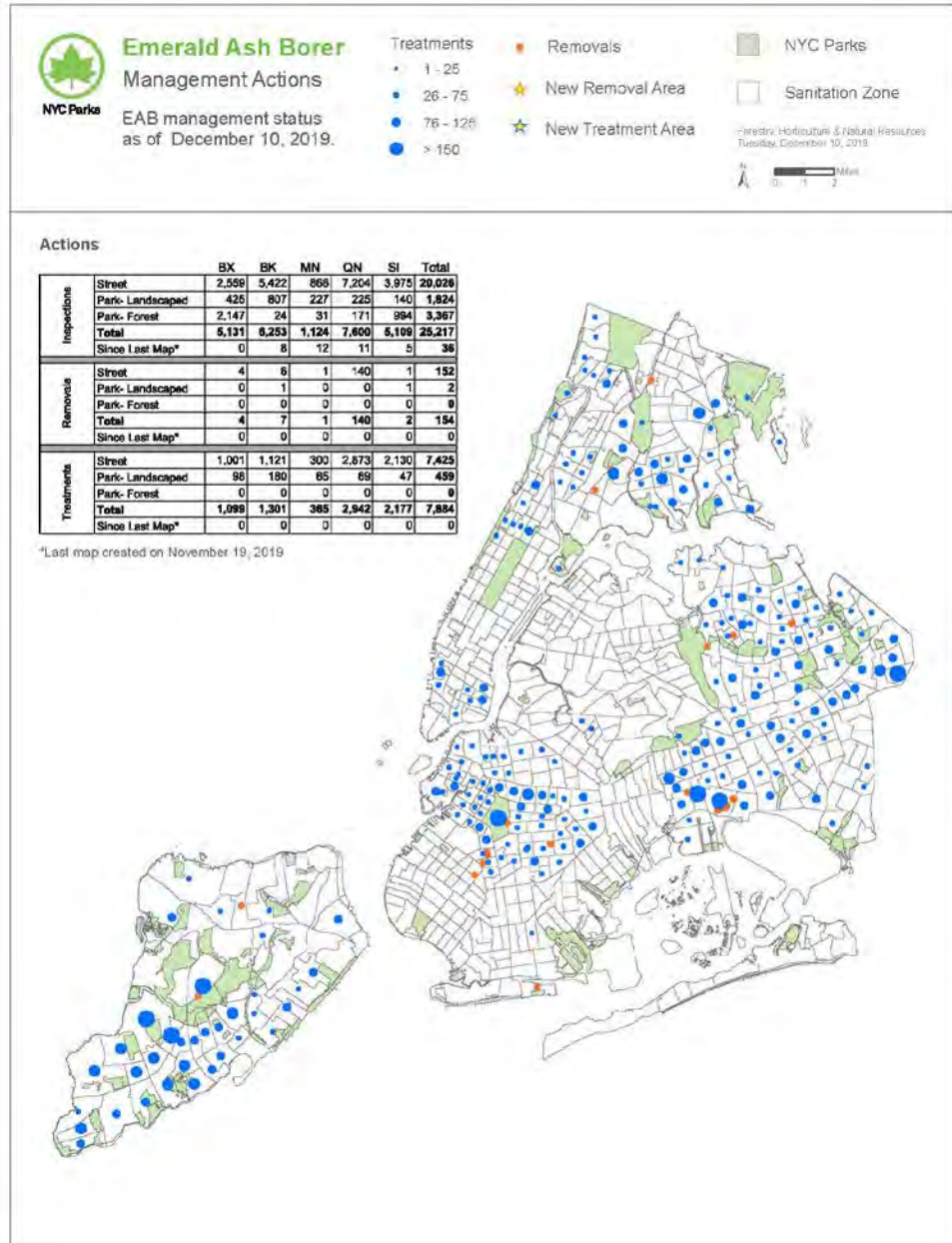
August 2019



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Promote Tree Health

Pest and Disease Management



Promote Tree Health Forest Management

A Vision for NYC Forests

- Biological health
- Access for all New Yorkers

Goals

- Manage all 7,300 acres
- Climate-adapted forests
- Citywide trail system

Requires \$385 million over 25 years



NYC Parks

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Forest Management Framework for New York City



Involve People

1. **Staff Training**
2. **Citizen Science**
3. **Volunteer Programs**
4. **Public Engagement**

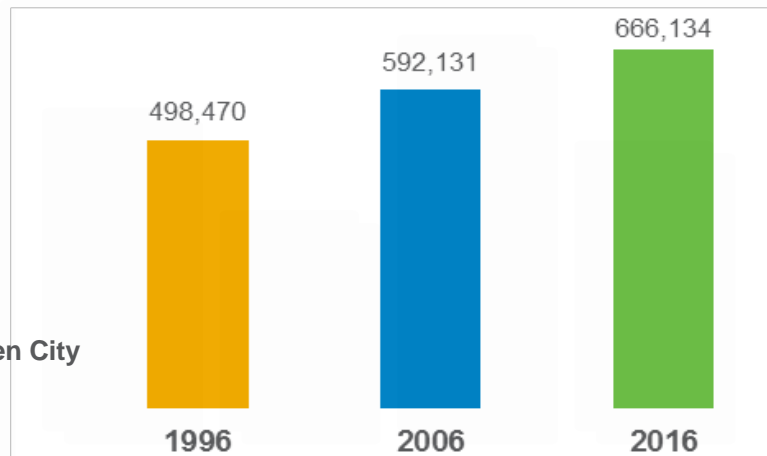


Staff Training



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Citizen Science



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Volunteer Programs



Green Neighborhoods

Provide regularly scheduled volunteer opportunities across all landscape types: street trees, wetlands, forests and bioswales

Parks Priorities

Organize one-off projects matching groups to parks management needs

Big Ticket Events

Highlight natural assets through one-day events that transform, impact or highlight landscapes across the city

Super Stewards

Advanced, independent volunteers



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Public Engagement

milliontrees **NYC**TM
A PLANYC INITIATIVE WITH NYC PARKS AND NEW YORK RESTORATION PROJECT



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Public Engagement




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**think globally.
plant locally.**

Celebrate MillionTreesNYC Month. supported by
April 2008 


milliontreesNYC
Visit milliontreesnyc.org
or call 311 for more information.



Ready, Set, Grow!
Plant a Tree this Fall and Keep
NYC's Urban Forest Growing!
"The More You Dig, the Greener We'll Be."
www.milliontreesnyc.org








milliontreesNYC
A COMMITMENT TO A BETTER CITY

cool operators
Trees do more than you think. They cool our playgrounds and sidewalks, and shade our homes during summer months — helping us fight global warming.

Help NYC beat the heat by planting and caring for trees.
To dig in or donate visit milliontreesnyc.org or call 311.

milliontreesNYC   








300,000*

PUT DOWN ROOTS


Plant a tree this fall. Trees help New Yorkers breathe easier, live healthier and grow stronger. Be one of the 300,000 New York City homeowners needed to plant a tree in your yard.

www.milliontreesnyc.org

milliontreesNYC   






250,000*




TreeLC

Adopt a tree today. Just like children, young trees need tender loving care. Join NYC Service and lend a hand for two by watering and caring for one of our 250,000 newly planted trees.

www.milliontreesnyc.org


milliontreesNYC   





**ADOPT A
STREET
TREE
THIS SPRING**


To learn how to water and protect a newly planted street tree, visit www.milliontreesnyc.org or call 311.

milliontreesNYC   

Trees. Mother Nature's version of Zen.
Trees do more than you think. They provide shade and stress relief, cool our sidewalks and streets, and improve air quality and water management. In June a \$500,000 Tree Care Program is open to plant a tree in your yard. Visit milliontreesnyc.org, 311, and growing.

milliontreesNYC   



**I'M
IN.**

Dig deep. Plant or donate a tree.
We need your help to grow 1 Million new ones citywide.

milliontreesnyc.org
or call 311

milliontreesNYC   



I'M ONE IN A MILLION.

I'M AVAILABLE.

Are you?

I'M GROWING.

 **I'M** GIVING.

YOU'RE ONE IN A MILLION

We did it! One million trees for New York City!



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Public Engagement



IM
NEW.

A new city street tree will be planted at this location. Fresher air, cleaner water, and more shade are coming your way!

For more information, visit www.milliontreesnyc.org.

milliontreesNYC 



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Public Engagement



Tree One



Tree One Million



NYC Parks

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Public Engagement

New York City Tree Map

New York City Nature Map



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NYC Parks



Thank You

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Parks