

**Natural Resources Group**  
**Forest Restoration Team Planting Report**  
**Spring 2010**



City of New York  
Parks & Recreation  
Michael R. Bloomberg, Mayor  
Adrian Benepe, Commissioner

Dear Parkie,

Spring 2010 was another productive season for Natural Resources Group (NRG). We moved closer to our PlaNYC goal of restoring and creating 2,000 acres of multistory forests. The Forest Restoration Team, which for the fall consisted of 14 full-time employees and 5 seasonals, planted trees and shrubs in 26 properties in all five boroughs. NRG again hosted the Million Trees volunteer day, where 20,418 trees were planted in a single day with the help of numerous Parks' staff and volunteers. Below is a summary of spring 2010.

- Containerized trees planted by the Forest Restoration Team: 26,514 (2009: 33,661)
- Containerized trees planted through contractors: 5,794 (2009: 6,404)
- Balled & burlapped trees planted through contractors: 296 (2009: 3,467)
- Dormant live stakes (sections of dormant tree branches) planted: 4,950 (2009: 0)
- Containerized shrubs planted by the Forest Restoration Team: 5,711 (2009: 3,835)
- Herbaceous plugs planted by the Forest Restoration Team: 9,626 (2009: 20,536)
- Hosted 21 volunteer events with 314 volunteers from 10 different volunteer and school groups (2009: 21, 454, 13)

These trees and shrubs play an important role in cleaning our air, filtering our stormwater, and storing carbon. They also provide foraging and nesting habitat for countless species of birds and animals. We could not hope to provide these benefits without the strong continued support of our agency, institutional, and community partners.

Sincerely,

Tim Wenskus  
Deputy Director  
Natural Resources Group

## Tree Plantings

### Total Containerized Tree Plantings

Bronx	Raoul Wallenberg Forest	3,058
	Van Cortlandt Park	2,236
	Pelham Bay Park	1,784
	Bronx Park	1,052
	Nelson Avenue Family Park	122
Brooklyn	Highland Park (Brooklyn)	2,898
	Floyd Bennett Field	2,000
	Spring Creek Park	550
	Marine Park	4
Manhattan	Inwood Hill Park	856
	Central Park	250
Queens	Alley Pond Park	2,024
	Rockaway Community Park	1,620
	Roy Wilkins-southern Queens Park	1,065
	Forest Park	515
	Kissena Corridor Park (West)	500
Staten Island	Clove Lakes Park	2,958
	Arden Heights Woods	2,000
	Wolfe's Pond Park	1,997
	Ocean Breeze Park	1,504
	SIDDSO	1,046
	Fresh Kills Park	930
	Willowbrook Park	500
	Conference House Park	410
	Fresh Kills	245
	Long Pond Park	184
<b>Grand Total</b>		<b>32,308</b>

### Forest Restoration Team Container Tree Plantings

Bronx	Van Cortlandt Park	2,236
	Pelham Bay Park	1,784
	Raoul Wallenberg Forest	1,595
	Bronx Park	931

Brooklyn	Floyd Bennett Field	2,000
	Highland Park (Brooklyn)	1,525
	Spring Creek Park	550
	Marine Park	4
Manhattan	Inwood Hill Park	856
	Central Park	250
Queens	Alley Pond Park	2,024
	Rockaway Community Park	1,620
	Roy Wilkins-southern Queens Park	1,065
	Forest Park	515
Staten Island	Clove Lakes Park	2,512
	Arden Heights Woods	2,000
	Wolfe's Pond Park	1,997
	Ocean Breeze Park	1,504
	SIDDSO	1,046
	Willowbrook Park	500
<b>Grand Total</b>		<b>26,514</b>

### Forest Restoration Team Container Tree Plantings by Species

Pin oak	<i>Quercus palustris</i>	1,956
Tulip tree	<i>Liriodendron tulipifera</i>	1,628
White oak	<i>Quercus alba</i>	1,619
Eastern red cedar	<i>Juniperus virginiana</i>	1,420
Shadbush	<i>Amelanchier canadensis</i>	1,267
Scarlet oak	<i>Quercus coccinea</i>	1,235
Northern red oak	<i>Quercus rubra</i>	1,165
Sweetgum	<i>Liquidambar styraciflua</i>	1,073
Silver maple	<i>Acer saccharinum</i>	1,026
Black birch	<i>Betula lenta</i>	1,019
Red maple	<i>Acer rubrum</i>	988
Eastern white pine	<i>Pinus strobus</i>	936
Flowering dogwood	<i>Cornus florida</i>	926
Black tupelo	<i>Nyssa sylvatica</i>	902
Gray birch	<i>Betula populifolia</i>	875
Hackberry	<i>Celtis occidentalis</i>	870
Black oak	<i>Quercus velutina</i>	780
Staghorn sumac	<i>Rhus typhina</i>	680

Black cherry	<i>Prunus serotina</i>	659
Hornbeam	<i>Carpinus caroliniana</i>	646
Chestnut oak	<i>Quercus prinus</i>	646
Pitch pine	<i>Pinus rigida</i>	635
American sycamore	<i>Platanus occidentalis</i>	601
Swamp white oak	<i>Quercus bicolor</i>	471
Box elder	<i>Acer negundo</i>	330
Sugar maple	<i>Acer saccharum</i>	283
Eastern redbud	<i>Cercis canadensis</i>	250
Sweetbay magnolia	<i>Magnolia virginiana</i>	200
American beech	<i>Fagus grandifolia</i>	149
Sassafras	<i>Sassafras albidum</i>	149
Hawthorn	<i>Crataegus crus-galli</i>	141
American elm	<i>Ulmus americana</i>	118
American holly	<i>Ilex opaca</i>	115
Black walnut	<i>Juglans nigra</i>	85
Blackjack oak	<i>Quercus marilandica</i>	75
Juneberry	<i>Amelanchier laevis</i>	70
Choke cherry	<i>Prunus virginiana</i>	60
Green ash	<i>Fraxinus pensylvanicum</i>	50
Short-leaf pine	<i>Pinus Ecchinata</i>	50
Willow oak	<i>Quercus phellos</i>	40
Post oak	<i>Quercus stellata</i>	40
Atlantic white cedar	<i>Chamaecyparis thyoides</i>	35
Pignut hickory	<i>Carya glabra</i>	30
Hop-hornbeam	<i>Ostrya virginiana</i>	30
Shagbark hickory	<i>Carya ovata</i>	25
Chinkapin oak	<i>Quercus muehlenbergii</i>	25
Mockernut hickory	<i>Carya tomentosa</i>	21
Cucumber magnolia	<i>Magnolia acuminata</i>	20
Quaking aspen	<i>Populus tremuloides</i>	20
Kentucky coffeetree	<i>Gymnocladis dioicus</i>	18
Eastern cottonwood	<i>Populus deltoides</i>	18
Black willow	<i>Salix nigra</i>	17
Bitternut hickory	<i>Carya cordiformis</i>	11
Persimmon	<i>Diospyros virginiana</i>	10
Big-toothed aspen	<i>Populus grandidentata</i>	6
<b>Grand Total</b>		<b>26,514</b>

### Contractor Container Tree Plantings

Bronx	Raoul Wallenberg Forest	1,463
	Nelson Avenue Family Park	122
	Bronx Park	121
Brooklyn	Highland Park (Brooklyn)	1,373
Queens	Kissena Corridor Park (West)	500
Staten Island	Fresh Kills Park	930
	Clove Lakes Park	446
	Conference House Park	410
	Fresh Kills	245
	Long Pond Park	184
<b>Grand Total</b>		<b>5,794</b>

### Contractor Container Tree Plantings by Species

Northern red oak	<i>Quercus rubra</i>	735
Swamp white oak	<i>Quercus bicolor</i>	547
Eastern red cedar	<i>Juniperus virginiana</i>	476
Tulip tree	<i>Liriodendron tulipifera</i>	400
White oak	<i>Quercus alba</i>	385
Hackberry	<i>Celtis occidentalis</i>	371
Hornbeam	<i>Carpinus caroliniana</i>	350
Eastern white pine	<i>Pinus strobus</i>	290
Shadbush	<i>Amelanchier canadensis</i>	243
Black cherry	<i>Prunus serotina</i>	225
Scarlet oak	<i>Quercus coccinea</i>	224
Pitch pine	<i>Pinus rigida</i>	210
Pin oak	<i>Quercus palustris</i>	209
Chestnut oak	<i>Quercus prinus</i>	138
Black oak	<i>Quercus velutina</i>	122
Flowering dogwood	<i>Cornus florida</i>	110
Bear oak	<i>Quercus ilicifolia</i>	110
Willow oak	<i>Quercus phellos</i>	110
Black walnut	<i>Juglans nigra</i>	108
Redbud	<i>Cercis canadensis</i>	87
Witch hazel	<i>Hamamelis vernalis</i>	82
Staghorn sumac	<i>Rhus typhina</i>	80
American sycamore	<i>Platanus occidentalis</i>	73
Red maple	<i>Acer rubrum</i>	59
Black tupelo	<i>Nyssa sylvatica</i>	50
<b>Grand Total</b>		<b>5,794</b>

### Forest Restoration Team Dormant Live Stake Tree Plantings

Staten Island	Conference House Park	1,025
<b>Grand Total</b>		<b>1,025</b>

### Forest Restoration Team Dormant Live Stake Tree Plantings by Species

Black willow	<i>Salix nigra</i>	1,025
<b>Grand Total</b>		<b>1,025</b>

### Contractor Balled & Burlapped Tree Plantings

Bronx	Hutchinson River Parkway	296
<b>Grand Total</b>		<b>296</b>

### Contractor Balled & Burlapped Trees by Species

Serbian spruce	<i>Picea omorika</i>	32
Southwestern White pine	<i>Pinus strobiformis</i>	31
Eastern redbud	<i>Cercis canadensis</i>	26
Willow oak	<i>Quercus phellos</i>	25
White pine	<i>Pinus strobus</i>	21
Ponderosa pine	<i>Pinus ponderosa</i>	19
Nellie R Stevens holly	<i>Ilex 'Nellie R Stevens'</i>	16
Bur oak	<i>Quercus macrocarpa</i>	15
Cornelian cherry dogwood	<i>Cornus mas</i>	13
Sweetgum	<i>Liquidambar styraciflua</i>	12
Strawberry Parfait crabapple	<i>Malus 'Strawberry Parfait'</i>	12
Swamp white oak	<i>Quercus bicolor</i>	11
Scarlet oak	<i>Quercus coccinea</i>	11
Eastern white pine	<i>Picea glauca</i>	9
Shadbush	<i>Amelanchier canadensis</i>	8
Sugartyme Flowering crabapple	<i>Malus 'Sugartyme'</i>	8
Compact Gem Bosnian pine	<i>Pinus leucodermis</i>	8
Sawtooth oak	<i>Quercus acutissima</i>	5
Northern red oak	<i>Quercus rubra</i>	5
Hornbeam	<i>Carpinus caroliniana</i>	4
Kentucky coffeetree	<i>Gymnocladis dioicus</i>	3
Maidenhair	<i>Ginkgo biloba</i>	2
<b>Grand Total</b>		<b>296</b>

## Shrub Plantings

### Forest Restoration Team Containerized Shrub Plantings

Bronx	Van Cortlandt Park	919
	Pelham Bay Park	478
	Raoul Wallenberg Forest	280
Brooklyn	Floyd Bennett Field	400
	Highland Park (Brooklyn)	125
	Spring Creek Park	125
Manhattan	Inwood Hill Park	255
Queens	Alley Pond Park	1,084
	Roy Wilkins	250
	Rockaway Community Park	195
Staten Island	Clove Lakes Park	515
	Wolfe's Pond Park	500
	Ocean Breeze Park	375
	SIDDSO	210
<b>Grand Total</b>		<b>5,711</b>

### Forest Restoration Team Containerized Shrub Plantings by Species

Silky dogwood	<i>Cornus amomum</i>	749
Arrow-wood	<i>Viburnum dentatum</i>	671
Elderberry	<i>Sambucus canadensis</i>	505
Sweet pepperbush	<i>Clethra alnifolia</i>	463
Winterberry	<i>Ilex verticillata</i>	462
Winged sumac	<i>Rhus copallinum</i>	426
Groundsel bush	<i>Baccharis halimifolia</i>	296
Black-haw	<i>Viburnum prunifolium</i>	282
Red-panicled Dogwood	<i>Cornus racemosa</i>	280
Northern bayberry	<i>Myrica pensylvanica</i>	195
Red chokeberry	<i>Aronia arbutifolia</i>	185
Serviceberry	<i>Amelanchier arborea</i>	150
Black chokeberry	<i>Aronia melanocarpa</i>	145
Beach plum	<i>Prunus maritima</i>	140
Witch hazel	<i>Hamamelis virginiana</i>	100
Early low blueberry	<i>Vaccinium pallidum</i>	100
Strawberry bush	<i>Euonymus americanus</i>	96
Red-osier Dogwood	<i>Cornus sericea</i>	87
Lowbush blueberry	<i>Vaccinium angustifolium</i>	80

High bush cranberry	<i>Viburnum trilobum</i>	65
Inkberry	<i>Ilex glabra</i>	62
Marsh-elder	<i>Iva frutescens</i>	60
Smooth sumac	<i>Rhus glabra</i>	49
Black raspberry	<i>Rubus occidentalis</i>	39
Speckled alder	<i>Alnus rugosa</i>	14
Smooth alder	<i>Alnus serrulata</i>	10
<b>Grand Total</b>		<b>5,711</b>

### Contractor Containerized Shrubs Plantings

Brooklyn	Highland Park (Brooklyn)	125
Queens	Kissena Corridor Park (West)	337
Staten Island	Fresh Kills Park	70
<b>Grand Total</b>		<b>532</b>

### Contractor Containerized Shrubs Plantings by Species

Witch hazel	<i>Hamamelis virginiana</i>	278
Elderberry	<i>Sambucus canadensis</i>	104
Arrow-wood	<i>Viburnum dentatum</i>	100
Spicebush	<i>Lindera benzoin</i>	50
<b>Grand Total</b>		<b>532</b>

### Shrub Dormant Live Stakes Planted by Forest Restoration Team

Staten Island	Conference House Park	3,925
<b>Grand Total</b>		<b>3,925</b>

### Shrub Dormant Live Stakes Planted by Forest Restoration Team by Species

Silky dogwood	<i>Cornus amomum</i>	3,025
Pussy willow	<i>Salix discolor</i>	900
<b>Grand Total</b>		<b>3,925</b>

## Herbaceous Plantings

### Forest Restoration Team Herbaceous Plantings

Manhattan	Inwood Hill Park	70
Queens	Forest Park	224
Staten Island	Clove Lakes Park	3,040
	Conference House Park	2,829
	Wolfe's Pond Park	1,927
	Ocean Breeze Park	1,536
<b>Grand Total</b>		<b>9,626</b>

### Forest Restoration Team Herbaceous Plantings by Species

Path rush	<i>Juncus tenuis</i>	1,088
Heart-leaved/ Blue-wood aster	<i>Symphotrichum cordifolius</i>	985
White snakeroot	<i>Eupatorium rugosum</i>	896
Bladder sedge	<i>Carex intumescens</i>	636
Purpletop	<i>Tridens flavus</i>	576
Early goldenrod	<i>Solidago juncea</i>	560
Fringed sedge	<i>Carex crinita</i>	480
Common milkweed	<i>Asclepias syriaca</i>	416
Indian grass	<i>Sorghastrum nutans</i>	344
Green rush	<i>Juncus Greenei</i>	336
Swamp milkweed	<i>Asclepias incarnata</i>	328
Yellow giant hyssop	<i>Agastache nepetoides</i>	320
Smooth aster	<i>Aster laevis</i>	320
Greenwhite sedge	<i>Carex albolutea</i>	312
White wood aster	<i>Aster divaricatus</i>	288
White avens	<i>Geum canadense</i>	256
Blue-stemmed goldenrod	<i>Solidago caesia</i>	256
White wood aster	<i>Eurybia divaricata</i>	204
Indian hemp	<i>Apocynum cannabinum</i>	160
Wild bergamot	<i>Monarda fistulosa</i>	160
Pennsylvania sedge	<i>Carex pennsylvanica</i>	128
Great lobelia	<i>Lobelia siphilitica</i>	96
Black-eyed Susan	<i>Rudbeckia hirta var. hirta</i>	96
Sweet Goldenrod	<i>Solidago odora</i>	96
Rosy sedge	<i>Carex rosea</i>	48
Stout woodreed	<i>Cinna arundinacea</i>	48
Common sneezeweed	<i>Helenium autumnale</i>	45

Whorled loosestrife	<i>Lysimachia quadrifolia</i>	35
Canada goldenrod	<i>Solidago canadensis</i>	32
Smooth blue aster	<i>Symphyotrichum laeve</i>	32
Virginia creeper	<i>Parthenocissus quinquefolia</i>	17
Gray goldenrod	<i>Solidago nemoralis</i>	16
Tall meadow rue	<i>Thalictrum pubescens</i>	16
<b>Grand Total</b>		<b>9,626</b>

### Contractor Herbaceous Plantings

Queens	Kissena Corridor Park (West)	1,250
<b>Grand Total</b>		<b>1,250</b>

### Contractor Herbaceous Plantings by Species

Common milkweed	<i>Asclepias syriaca</i>	250
Canada wild rye	<i>Elymus canadensis</i>	250
Purple Joe-pye-weed	<i>Eupatorium purpureum</i>	250
Grass-leaved goldenrod	<i>Euthamia graminifolia</i>	250
Switch grass	<i>Panicum virgatum</i>	250
<b>Grand Total</b>		<b>1,250</b>