

Natural Resources Group
Forest Restoration Team Planting Report
Fall 2009



City of New York
Parks & Recreation
Michael R. Bloomberg, Mayor
Adrian Benepe, Commissioner
Liam Kavanagh, First Deputy Commissioner
Fiona Watt, Assistant Commissioner

Dear Parkie,

Fall 2009 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 9 seasonals, planted trees and shrubs in 27 properties in all five boroughs. NRG again hosted the Million Trees volunteer day, where 20,544 trees were planted in a single day with the help of numerous Parks' staff and volunteers. Below is a summary of fall 2009.

- Containerized trees planted: 26,139 (2008 – 32,597)
- Containerized trees planted through contractors: 9,652 (2008-0)
- Balled & burlapped trees planted through contractors: 267 (2008 –1,236)
- Bare-root trees planted: 2,268 (2008 –0)
- Containerized shrubs planted: 4,626 (2008 – 3,540)
- Herbaceous plugs planted: 18,528 (2008 – 19,057)
- Hosted 32 volunteer events with 468 volunteers from 9 different volunteer and school groups (2008 – 24, 556, 22)

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, NRG

Tree Plantings

Total Containerized Trees Plantings by Borough and Park

Bronx	Bronx Park	905
	Bronx River Parkway	400
	Claremont Park	200
	Crotona Park	650
	Ferry Point Park	672
	Pelham Bay Park	3,697
	St Mary's Park	600
	Van Cortlandt Park	1,867
Brooklyn	Canarsie Park	960
	Floyd Bennett Field	827
	Marine Park	2,597
Manhattan	Central Park	500
	Inwood Hill Park	1,650
Queens	Alley Pond Park	2,644
	Forest Park	96
	Idlewild	1,250
	Motor Parkway	1,069
	Norton Basin	1,804
	Roy Wilkins Park	2,500
Staten Island	Arthur Kill DOC	910
	Bloomingdale Park	1,934
	Clove Lakes Park	2,512
	DEP Bluebelt - New Creek	1,224
	Father Macris Park	1,328
	Ocean Breeze Park	1,096
	Sailors Snug Harbor	21
	Wolfe's Pond Park	1,878
Total		35,791

Forest Restoration Team Container Tree Plantings by Borough and Park

Bronx	Bronx Park	630
	Bronx River Parkway	400
	Ferry Point Park	672
	Pelham Bay Park	3,697
	Van Cortlandt Park	1,867
Brooklyn	Canarsie Park	160
	Floyd Bennett Field	827
	Marine Park	2,597
Manhattan	Central Park	500
	Inwood Hill Park	1,650
Queens	Alley Pond Park	2,644
	Forest Park	96
	Idlewild	1,250
	Norton Basin	1,804
Staten Island	Arthur Kill DOC	910
	Clove Lakes Park	2,512
	Father Macris Park	1,328
	Ocean Breeze Park	1,096
	Sailors Snug Harbor	21
	Wolfe's Pond Park	1,478
	Total	26,139

Forest Restoration Team Container Tree Plantings by Species

Pin oak (<i>Quercus palustris</i>)	2,236
Tuliptree (<i>Liriodendron tulipifera</i>)	1,598
Sweetgum (<i>Liquidambar styraciflua</i>)	1,553
Red oak (<i>Quercus rubra</i>)	1,381
Sycamore (<i>Platanus occidentalis</i>)	1,296
Black birch (<i>Betula lenta</i>)	1,197
Hackberry (<i>Celtis occidentalis</i>)	1,139
Pitch pine (<i>Pinus rigida</i>)	1,098
Swamp white oak (<i>Quercus bicolor</i>)	1,073

Blackgum (<i>Nyssa sylvatica</i>)	1,067
Serviceberry (<i>Amelanchier canadensis</i>)	1,037
Black cherry (<i>Prunus serotina</i>)	1,013
Eastern red cedar (<i>Juniperus virginiana</i>)	895
Silver maple (<i>Acer saccharinum</i>)	824
White oak (<i>Quercus alba</i>)	801
Eastern white pine (<i>Pinus strobus</i>)	787
Black oak (<i>Quercus velutina</i>)	686
Chestnut oak (<i>Quercus prinus</i>)	652
American elm (<i>Ulmus americana</i>)	606
Red maple (<i>Acer rubrum</i>)	598
Flowering dogwood (<i>Cornus florida</i>)	565
Redbud (<i>Cercis canadensis</i>)	510
Bur oak (<i>Quercus macrocarpa</i>)	465
Scarlet oak (<i>Quercus coccinea</i>)	382
Sassafras (<i>Sassafras albidum</i>)	377
Gray birch (<i>Betula populifolia</i>)	355
Black walnut (<i>Juglans nigra</i>)	329
Staghorn sumac (<i>Rhus typhina</i>)	302
Willow oak (<i>Quercus phellos</i>)	250
American holly (<i>Ilex opaca</i>)	200
Blackjack oak (<i>Quercus marilandica</i>)	187
Black willow (<i>Salix nigra</i>)	120
American Beech (<i>Fagus grandifolia</i>)	100
Allegheny serviceberry (<i>Amelanchier laevis</i>)	95
Persimmon (<i>Diospyros virginiana</i>)	80
Box elder (<i>Acer negundo</i>)	50
Sweetbay magnolia (<i>Magnolia virginiana</i>)	50
Green ash (<i>Fraxinus pensylvanicum</i>)	46
Ironwood (<i>Carpinus caroliniana</i>)	39
River birch (<i>Betula nigra</i>)	30
Trembling aspen (<i>Populus tremuloides</i>)	27
Osage orange (<i>Maclura pomifera</i>)	20
Kentucky coffeetree (<i>Gymnocladis dioicus</i>)	10
Big-toothed aspen (<i>Populus grandidentata</i>)	6
Hawthorne (<i>Crataegus spp.</i>)	5
Bitternut hickory (<i>Carya cordiformis</i>)	2
Total	26,139

Contractor Container Tree Plantings by Borough and Park

Bronx	Bronx Park	275
	Claremont Park	200
	Crotona Park	650
	St Mary's Park	600
Brooklyn	Canarsie Park	800
Queens	Motor Parkway	1,069
	Roy Wilkins Park	2,500
Staten Island	Bloomingdale Park	1,934
	DEP Bluebelt - New Creek	1,224
	Wolfe's Pond Park	400
Total		9,652

Contractor Container Tree Plantings by Species

Swamp white oak (<i>Quercus bicolor</i>)	951
Sweetgum (<i>Liquidambar styraciflua</i>)	863
White oak (<i>Quercus alba</i>)	764
Pin oak (<i>Quercus palustris</i>)	712
Blackgum (<i>Nyssa sylvatica</i>)	651
Tuliptree (<i>Liriodendron tulipifera</i>)	649
Red oak (<i>Quercus rubra</i>)	647
Serviceberry (<i>Amelanchier canadensis</i>)	470
Sycamore (<i>Platanus occidentalis</i>)	423
Redbud (<i>Cercis canadensis</i>)	415
Red maple (<i>Acer rubrum</i>)	400
Eastern white pine (<i>Pinus strobus</i>)	347
Black cherry (<i>Prunus serotina</i>)	336
Silver maple (<i>Acer saccharinum</i>)	275
Ironwood (<i>Carpinus caroliniana</i>)	270
Flowering dogwood (<i>Cornus florida</i>)	261
Hackberry (<i>Celtis occidentalis</i>)	248
Scarlet oak (<i>Quercus coccinea</i>)	243
Chestnut oak (<i>Quercus prinus</i>)	175
Eastern red cedar (<i>Juniperus virginiana</i>)	157
Black oak (<i>Quercus velutina</i>)	125
Sassafras (<i>Sassafras albidum</i>)	100

Black walnut (<i>Juglans nigra</i>)	50
Black birch (<i>Betula lenta</i>)	40
Hornbeam (<i>Ostrya virginiana</i>)	40
Hawthorne (<i>Crataegus</i> spp.)	20
Persimmon (<i>Diospyros virginiana</i>)	20
Total	9,652

Forest Restoration Team Bare-Root Tree Plantings by Borough and Park

Manhattan	Inwood Hill Park	103
Staten Island	Conference House Park	2,165
Total		2,268

Forest Restoration Team Bare-Root Tree Plantings by Species

Serviceberry (<i>Amelanchier canadensis</i>)	945
Sycamore (<i>Platanus occidentalis</i>)	475
Black cherry (<i>Prunus serotina</i>)	470
Black walnut (<i>Juglans nigra</i>)	275
Black oak (<i>Quercus velutina</i>)	45
Red oak (<i>Quercus rubra</i>)	40
Chestnut oak (<i>Quercus prinus</i>)	18
Total	2,268

Forest Restoration Team Seedling Tree Plantings by Borough and Park

Staten Island	Conference House Park	3,439
Total		3,439

Forest Restoration Team Seedling Tree Plantings by Species

Sycamore (<i>Platanus occidentalis</i>)	418
Pin oak (<i>Quercus palustris</i>)	1511
Chestnut Oak (<i>Quercus prinus</i>)	570
Red oak (<i>Quercus rubra</i>)	712
Sassafras (<i>Sassafras albidum</i>)	228
Total	3439

Contractor Balled & Burlapped Tree Plantings by Borough and Park

Bronx	Hutchinson River Parkway	90
Queens	Kissena Corridor Park	177
Total		267

Contractor Balled & Burlapped Trees by Species

Serviceberry (<i>Amelanchier canadensis</i>)	10
Ironwood (<i>Carpinus caroliniana</i>)	33
Hackberry (<i>Celtis occidentalis</i>)	25
Redbud (<i>Cercis canadensis</i>)	35
Winter King hawthorne (<i>Crataegus viridis</i>)	6
Ginkgo (<i>Ginkgo biloba</i>)	12
Eastern red cedar (<i>Juniperus virginiana</i>)	19
Sweetgum (<i>Liquidambar styraciflua</i>)	8
Floribunda crabapple (<i>Malus floribunda</i>)	7
Zumi crabapple (<i>Malus x zumi</i>)	11
White oak (<i>Quercus alba</i>)	6
Scarlet oak (<i>Quercus coccinea</i>)	5
Red oak (<i>Quercus rubra</i>)	30
Baldcypress (<i>Taxodium distichum</i>)	15
American basswood (<i>Tilia americana</i>)	42
Silver linden (<i>Tilia tomentosa</i>)	3
Total	267

Shrub Plantings

Total Containerized Shrubs Planted by Forest Restoration Team by Borough and Park

Bronx	Bronx Park	20
	Ferry Point Park	104
	Pelham Bay Park	471
	Van Cortlandt Park	699
Brooklyn	Canarsie Park	25
	Spring Creek Park	92
Manhattan	Inwood Hill Park	185
Queens	Alley Pond Park	802
	Idlewild	145
	Kissena Corridor Park (West)	500
Staten Island	Clove Lakes Park	298
	Ocean Breeze Park	585
	Wolfe's Pond Park	700
Total		4,626

Containerized Shrubs Planted by Forest Restoration Team by Species

Arrowwood (<i>Viburnum dentatum</i>)	1,905
Silky dogwood (<i>Cornus amomum</i>)	781
Black raspberry (<i>Rubus occidentalis</i>)	512
Winterberry (<i>Ilex verticillata</i>)	230
Sweet pepper bush (<i>Clethra alnifolia</i>)	225
Elderberry (<i>Sambucus canadensis</i>)	130
Lowbush blueberry (<i>Vaccinium pallidum</i>)	117
Scrub oak (<i>Quercus ilicifolia</i>)	100
White meadowsweet (<i>Spiraea alba</i> var. <i>latifolia</i>)	100
Graystem dogwood (<i>Cornus racemosa</i>)	93
Red osier dogwood (<i>Cornus sericea</i>)	90
Blackberry (<i>Rubus allegheniensis</i>)	88
Bayberry (<i>Myrica pensylvanica</i>)	62

Groundsel tree (<i>Baccharis halimifolia</i>)	55
Spicebush (<i>Lindera benzoin</i>)	50
Crusgalli hawthorne (<i>Crataegus crus-galli</i>)	35
Witch hazel (<i>Hamamelis virginiana</i>)	21
Pussy willow (<i>Salix discolor</i>)	20
Red chokeberry (<i>Aronia arbutifolia</i>)	10
Inkberry (<i>Ilex glabra</i>)	1
Smooth sumac (<i>Rhus glabra</i>)	1
Total	4,626

Shrub Seedlings Planted by Forest Restoration Team by Borough and Park

Queens	Alley Pond Park	1,680
Staten Island	Conference House Park	1,270
Total		2,950

Shrub Seedlings Planted by Forest Restoration Team by Species

Red osier dogwood (<i>Cornus sericea</i>)	1,680
Beach plum (<i>Prunus maritima</i>)	497
Groundsel tree (<i>Baccharis halimifolia</i>)	748
Carolina rose (<i>Rosa caroliniana</i>)	25
Total	2,950

Bareroot Shrubs Planted by Forest Restoration Team by Borough and Park

Staten Island	Conference House Park	1,470
Total		1,470

Bareroot Shrubs Planted by Forest Restoration Team by Species

Silky dogwood (<i>Cornus amomum</i>)	550
Graystem dogwood (<i>Cornus racemosa</i>)	350
Elderberry (<i>Sambucus canadensis</i>)	270
Spicebush (<i>Viburnum dentatum</i>)	300
Total	1,470

Total Containerized Shrubs Planted by Contractor by Borough and Park

Queens	Motor Parkway	25
Staten Island	Bloomington Park	66
	Wolfe's Pond Park	50
Total		141

Containerized Shrubs Planted by Contractor by Species

Witch hazel (<i>Hamamelis virginiana</i>)	141
Total	141

Herbaceous Plantings

Herbaceous Plantings by Borough and Park

Bronx	Riverdale Park	3,072
	Van Cortlandt Park	4,080
Brooklyn	Spring Creek Park	64
Manhattan	Inwood Hill Park	448
Queens	Alley Pond Park	5,240
	Forest Park	256
Staten Island	Conference House Park	3,816
	Wolfe's Pond Park	1,552
Total		18,528

Herbaceous Plantings by Species

White snakeroot (<i>Eupatorium rugosum</i>)	2,244
Common blue wood aster (<i>Symphyotrichum cordifolius</i>)	1,832
Poverty rush (<i>Juncus tenuis</i>)	1,616
Wreath goldenrod (<i>Solidago caesia</i>)	1,568
White wood aster (<i>Eurybia divaricata</i>)	1,246
Pennsylvania sedge (<i>Carex pennsylvanica</i>)	968
White avens (<i>Geum canadense</i>)	854
Sweet woodreed (<i>Cinna arundinacea</i>)	768
Canada goldenrod (<i>Solidago canadensis</i>)	704
Deertongue (<i>Panicum clandestinum</i>)	624
Flattened oatgrass (<i>Danthonia compressa</i>)	576
Switchgrass (<i>Panicum virgatum</i>)	576
Common boneset (<i>Eupatorium perfoliatum</i>)	552
Virginia creeper (<i>Parthenocissus quinquefolia</i>)	520
New England aster (<i>Symphyotrichum novae-angliae</i>)	448
Rosy sedge (<i>Carex rosea</i>)	440
White heath aster (<i>Symphyotrichum ericoides</i>)	408
Lance-leaf goldenrod (<i>Euthamia graminifolia</i>)	392
White vervain (<i>Verbena urticifolia</i>)	384
Thinleaf sunflower (<i>Helianthus decapetalus</i>)	256

Swan's sedge (<i>Carex swanii</i>)	240
Rough-leaved goldenrod (<i>Solidago rugosum</i>)	224
Joe Pye weed (<i>Eupatorium maculatum</i>)	200
Wild geranium (<i>Geranium maculatum</i>)	192
Woodland sunflower (<i>Helianthus divaricatus</i>)	192
Wild bergamot (<i>Monarda fistulosa</i>)	184
Common goldenrod (<i>Solidago odora</i>)	96
Common mildweed (<i>Asclepias syriaca</i>)	64
Red columbine (<i>Aquilegia canadensis</i>)	64
Slender goldenrod (<i>Euthamia tenuifolia</i>)	48
Lizard's tail (<i>Saururus cernuus</i>)	48
Total	18,528