



City of New York
Parks & Recreation

Adrian Benepe
Commissioner

The Arsenal
Central Park
New York, New York 10065

Natural Resources Group

Arsenal North
1234 Fifth Avenue
New York, New York 10029

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Natural Resources Group

Forest Restoration Team Planting Report

Spring 2009

Spring 2009 proved to be another productive season for the Forest Restoration Team, which consists of 15 full-time employees and 2 seasonals for the season. The team received assistance from other members of the NRG staff along with volunteer and school groups. In addition, numerous Parks staff assisted with the planting of 20,484 trees in a single day as part of the Million Trees initiative. Plantings took place in 48 properties in all 5 boroughs. Below is a summary of the work completed in the Spring of 2009.

- Planted 37,496 containerized trees and shrubs (2008 – 32,881)
- Planted 3,392 bareroot trees and shrubs (2008 –3,387)
- Planted 3,467 balled & burlapped trees through contractors (2008 –321)
- Planted 6,404 containerized trees through contractors (2008-0)
- Planted 20,536 herbaceous plants (2008 – 19,057)
- Hosted 21 volunteer events with 454 volunteers from 13 different volunteer and school groups (2008 – 25, 479, 13)



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I. Tree Plantings

A. In-House Containerized Plantings by Park

Raoul Wallenberg Forest	Bronx	6,131	containerized trees and shrubs
Van Cortlandt Park	Bronx	4,665	containerized trees and shrubs
Old Place Creek	Staten Island	2,544	containerized trees and shrubs
Spring Creek Park	Brooklyn	2,050	containerized trees and shrubs
Alley Pond Park	Queens	2,046	containerized trees and shrubs
Kissena Corridor Park	Queens	2,030	containerized trees and shrubs
Clove Lakes Park	Staten Island	1,831	containerized trees and shrubs
Father Macris Park	Staten Island	1,802	containerized trees and shrubs
Claremont Park	Bronx	1,573	containerized trees and shrubs
Idlewild	Queens	1,487	containerized trees and shrubs
Forest Park	Queens	1,275	containerized trees and shrubs
Conference House Park	Staten Island	1,166	containerized trees and shrubs
Pelham Bay Park	Bronx	1,155	containerized trees and shrubs
Inwood Hill Park	Manhattan	1,078	containerized trees and shrubs
Floyd Bennett Field	Brooklyn	1,045	containerized trees and shrubs
Wolfe's Pond Park	Staten Island	1,004	containerized trees and shrubs
Cunningham Park	Queens	1,000	containerized trees and shrubs
Michaelis-Bayswater Park	Queens	1,000	containerized trees and shrubs
Butler Manor	Staten Island	750	containerized trees and shrubs
Bronx Park	Bronx	500	containerized trees and shrubs
Central Park	Manhattan	500	containerized trees and shrubs
Riverdale Park	Bronx	351	containerized trees and shrubs
Mt Loretto	Staten Island	317	containerized trees and shrubs
Fort Washington Park	Manhattan	121	containerized trees and shrubs
Four Sparrow Marsh	Brooklyn	75	containerized trees and shrubs
TOTAL		37,496	containerized trees and shrubs

B. In-House Containerized Plantings by Species

2,941 White oak (*Quercus alba*)

2,133 Red oak (*Quercus rubra*)
2,091 Black tupelo (*Nyssa sylvatica*)
2,024 Pin oak (*Quercus palustris*)
1,889 Sweetgum (*Liquidambar styraciflua*)
1,824 Tulip poplar (*Liriodendron tulipifera*)
1,659 Hackberry (*Celtis occidentalis*)
1,646 American sycamore (*Platanus occidentalis*)
1,542 Swamp white oak (*Quercus bicolor*)
1,365 Black birch (*Betula lenta*)
1,343 Black oak (*Quercus velutina*)
1,254 Flowering dogwood (*Cornus florida*)
1,243 Red maple (*Acer rubrum*)
1,200 Eastern red cedar (*Juniperus virginiana*)
1,179 Scarlet oak (*Quercus coccinea*)
985 Chestnut oak (*Quercus prinus*)
868 Spicebush (*Lindera benzoin*)
827 Shadbush (*Amelanchier canadensis*)
820 American hornbeam (*Carpinus caroliniana*)
797 Black cherry (*Prunus serotina*)
616 White pine (*Pinus strobus*)
575 Sugar maple (*Acer saccharum*)
520 Arrow-wood (*Viburnum dentatum*)
503 Dwarf chestnut oak (*Quercus prinoides*)
450 Redbud (*Cercis canadensis*)
435 Gray birch (*Betula populifolia*)
365 American elm (*Ulmus americana*)
347 Sassafras (*Sassafras albidum*)
326 Black walnut (*Juglans nigra*)
306 Lowbush blueberry (*Vaccinium angustifolium*)
267 Bur oak (*Quercus macrocarpa*)
230 Red-panicked dogwood (*Cornus racemosa*)
200 Red-osier dogwood (*Cornus sericea*)
184 Shortleaf pine (*Pinus echinata*)
182 Pitch pine (*Pinus rigida*)
150 Kentucky coffeetree (*Gymnocladis dioicus*)
129 American beech (*Fagus grandifolia*)
125 Juneberry (*Amelanchier laevis*)
116 Virginia pine (*Pinus virginiana*)
112 Green ash (*Fraxinus pensylvanicum*)
110 Elderberry (*Sambucus canadensis*)
104 Winterberry (*Ilex verticillata*)
100 Paper birch (*Betula papyrifera*)
100 Eastern cottonwood (*Populus deltoides*)
100 Box elder (*Acer negundo*)
100 Silver maple (*Acer saccharinum*)

100	Persimmon (<i>Diospyros virginiana</i>)
88	Common blackberry (<i>Rubus allegheniensis</i>)
80	Black raspberry (<i>Rubus occidentalis</i>)
75	River birch (<i>Betula nigra</i>)
75	Witch hazel (<i>Hamamelis virginiana</i>)
72	Mockernut hickory (<i>Carya tomentosa</i>)
60	Pignut hickory (<i>Carya glabra</i>)
58	Strawberry bush (<i>Euonymus americanus</i>)
54	Sweet-Bay magnolia (<i>Magnolia virginiana</i>)
54	Maple-leaved viburnum (<i>Viburnum acerifolium</i>)
53	Staghorn sumac (<i>Rhus typhina</i>)
50	Black chokeberry (<i>Aronia melanocarpa</i>)
50	Nanny-berry (<i>Viburnum lentago</i>)
50	Smooth sumac (<i>Rhus glabra</i>)
50	High-bush cranberry (<i>Viburnum trilobum</i>)
48	Willow oak (<i>Quercus phellos</i>)
40	Pinkster azalea (<i>Rhododendron periclymenoides</i>)
20	American holly (<i>Ilex opaca</i>)
15	White ash (<i>Fraxinus americanum</i>)
12	Spruce pine (<i>Pinus glabra</i>)
5	Big-toothed aspen (<i>Populus grandidentata</i>)
5	Black willow (<i>Salix nigra</i>)

TOTAL 37,496 containerized trees and shrubs

C. In-House Bareroot Plantings by Park

Conference House Park Staten Island 3,392 Bareroot trees and shrubs

TOTAL 3,392 Bareroot trees and shrubs

D. In-House Bareroot Plantings by Species

822	Swamp white oak (<i>Quercus bicolor</i>)
550	Wild black cherry (<i>Prunus serotina</i>)
530	Smooth sumac (<i>Rhus glabra</i>)
520	Shadbush (<i>Amelanchier canadensis</i>)
500	Green ash (<i>Fraxinus pensylvanicum</i>)
470	Silver maple (<i>Acer saccharinum</i>)

TOTAL 3,392 Bareroot trees and shrubs

E. Contractor Balled & Burlapped Plantings by Park

St Mary's Park	Bronx	379	Contractor Balled & Burlapped trees
Franklin D. Roosevelt Boardwalk	Staten Island	378	Contractor Balled & Burlapped trees

Roy Wilkins Park	Queens	361	Contractor Balled & Burlapped trees
Juniper Valley Park	Queens	283	Contractor Balled & Burlapped trees
Alley Pond Park	Queens	235	Contractor Balled & Burlapped trees
Bensonhurst Park	Brooklyn	178	Contractor Balled & Burlapped trees
Franz Sigel Park	Bronx	174	Contractor Balled & Burlapped trees
Marine Park	Brooklyn	162	Contractor Balled & Burlapped trees
Henry Hudson Parkway	Bronx	161	Contractor Balled & Burlapped trees
Bloomingdale Park	Staten Island	127	Contractor Balled & Burlapped trees
Sailors Snug Harbor	Staten Island	126	Contractor Balled & Burlapped trees
Conference House Park	Staten Island	123	Contractor Balled & Burlapped trees
McCarren Park	Brooklyn	118	Contractor Balled & Burlapped trees
Joyce Kilmer Park	Bronx	77	Contractor Balled & Burlapped trees
Morningside Park	Manhattan	64	Contractor Balled & Burlapped trees
Carl Schurz Park	Manhattan	62	Contractor Balled & Burlapped trees
Randall's Island Park	Manhattan	61	Contractor Balled & Burlapped trees
Spring Creek Park	Brooklyn	61	Contractor Balled & Burlapped trees
St Nicholas Park	Manhattan	55	Contractor Balled & Burlapped trees
Lincoln Terrace Park	Brooklyn	54	Contractor Balled & Burlapped trees
John Paul Jones Park	Brooklyn	52	Contractor Balled & Burlapped trees
J. Hood Wright Park	Manhattan	39	Contractor Balled & Burlapped trees
Riverside Park	Manhattan	36	Contractor Balled & Burlapped trees
Inwood Hill Park	Manhattan	34	Contractor Balled & Burlapped trees
Marcus Garvey Memorial Park	Manhattan	30	Contractor Balled & Burlapped trees
Coffey Park	Brooklyn	17	Contractor Balled & Burlapped trees
Claremont Park	Bronx	13	Contractor Balled & Burlapped trees
Fort Washington Park	Manhattan	7	Contractor Balled & Burlapped trees
TOTAL		3,467	Contractor Balled & Burlapped trees

F. Contractor Balled & Burlapped Plantings by Species

200	White pine (<i>Pinus strobus</i>)
193	Redbud (<i>Cercis canadensis</i>)
159	Scarlet oak (<i>Quercus coccinea</i>)
151	Shadbush (<i>Amelanchier canadensis</i>)
144	Sweetgum (<i>Liquidambar styraciflua</i>)
115	Red oak (<i>Quercus rubra</i>)
103	Eastern red cedar (<i>Juniperus virginiana</i>)
97	Willow oak (<i>Quercus phellos</i>)
88	Pitch pine (<i>Pinus rigida</i>)
83	White oak (<i>Quercus alba</i>)
79	Redbud crabapple (<i>Malus x zumi</i>)
79	American holly (<i>Ilex opaca</i>)
73	Dawn redwood (<i>Metasequoia glyptostroboides</i>)

- 64 Cockspur hawthorn (*Crataegus crus-galli*)
- 58 Yoshino cherry (*Prunus x yedoensis*)
- 57 Bur oak (*Quercus macrocarpa*)
- 56 Katsura (*Cercidiphyllum japonicum*)
- 52 Douglas fir (*Pseudotsuga menziesii*)
- 50 Bald cypress (*Taxodium distichum*)
- 48 London plane (*Platanus x acerifolia*)
- 47 Tulip poplar (*Liriodendron tulipifera*)
- 44 Flowering dogwood (*Cornus florida*)
- 43 Hackberry (*Celtis occidentalis*)
- 43 Kousa dogwood (*Cornus kousa*)
- 43 Centurion flowering crabapple (*Malus 'Centurion'*)
- 41 Silver linden (*Tilia tomentosa*)
- 40 Swamp white oak (*Quercus bicolor*)
- 40 Limber pine (*Pinus flexilis*)
- 39 Pin oak (*Quercus palustris*)
- 38 Sawtooth oak (*Quercus acutissima*)
- 37 Colorado spruce (*Picea pungens*)
- 33 Serbian spruce (*Picea omorika*)
- 32 Scots pine (*Pinus sylvestris*)
- 32 Japanese zelkova (*Zelkova serrata*)
- 31 Black tupelo (*Nyssa sylvatica*)
- 29 Goldenrain tree (*Koelreuteria paniculata*)
- 28 Shumard oak (*Quercus shumardii*)
- 27 Japanese cryptomeria (*Cryptomeria japonica*)
- 27 Green hawthorn (*Crataegus viridis*)
- 26 American linden (*Tilia americana*)
- 25 Black cherry (*Prunus serotina*)
- 25 Saucer magnolia (*Magnolia x soulangiana*)
- 25 Prairie fire flowering crabapple (*Malus 'Prairie Fire'*)
- 25 American elm (*Ulmus americana*)
- 24 Shagbark hickory (*Carya ovata*)
- 24 Maidenhair (*Ginkgo biloba*)
- 24 Ozark witch hazel (*Hamamelis vernalis*)
- 23 English oak (*Quercus robur*)
- 21 Compact gem bosnian pine (*Pinus leucodermis*)
- 20 Red maple (*Acer rubrum*)
- 20 Western red cedar (*Thuja plicata*)
- 19 Kentucky coffeetree (*Gymnocladis dioicus*)
- 19 European hornbeam (*Carpinus betulus*)
- 19 Deodar cedar (*Cedrus deodara*)
- 19 Japanese tree lilac (*Syringa reticulata*)
- 18 Cornelian cherry dogwood (*Cornus mas*)
- 18 Chinese witch hazel (*Hamamelis mollis*)
- 18 Loebner magnolia (*Magnolia x loebneri*)

- 17 American beech (*Fagus grandifolia*)
- 17 Dwarf oak (*Quercus prinoides*)
- 16 Japanese white pine (*Pinus parviflora*)
- 16 Higan cherry (*Prunus subhirtella*)
- 16 Honey locust (*Gleditsia triacanthos*)
- 15 Northern catalpa (*Catalpa speciosa*)
- 15 Virginia pine (*Pinus virginiana*)
- 14 American hornbeam (*Carpinus caroliniana*)
- 14 Apple serviceberry (*Amelanchier grandiflora*)
- 13 Kentucky yellowwood (*Cladrastis kentukea*)
- 13 European beech (*Fagus sylvatica*)
- 13 Littleleaf linden (*Tilia cordata*)
- 12 Japanese flowering crabapple (*Malus floribunda*)
- 11 Beaked hazelnut (*Corylus cornuta*)
- 11 Shingle oak (*Quercus imbricaria*)
- 11 White fir (*Abies concolor*)
- 11 Nordmann fir (*Abies nordmanniana*)
- 11 Constellation dogwood (*Cornus x Rutcan*)
- 11 Sargent cherry (*Prunus sargentii*)
- 9 Japanese red pine (*Pinus densiflora*)
- 8 Sweet-bay magnolia (*Magnolia virginiana*)
- 8 Serviceberry (*Amelanchier arborea*)
- 8 Cucumber magnolia (*Magnolia acuminata*)
- 8 Star magnolia (*Magnolia stellata*)
- 7 Sargent crabapple (*Malus sargentii*)
- 7 Persian ironwood (*Parrotia persica*)
- 7 Spruce pine (*Pinus glabra*)
- 7 Okame cherry (*Prunus 'Okame'*)
- 6 Choke cherry (*Prunus virginiana*)
- 6 American sycamore (*Platanus occidentalis*)
- 6 Yellow buckeye (*Aesculus octandra*)
- 6 Alaska cedar (*Chamaecyparis nootkatensis*)
- 6 Mountain silverbell (*Halesia tetraptera*)
- 6 Crapemyrtle (*Lagerstroemia tuscarora*)
- 6 Midland hawthorn (*Crataegus laevigata*)
- 5 Carolina silverbell (*Halesia carolina*)
- 5 Norway spruce (*Picea abies*)
- 5 Chinese elm (*Ulmus parvifolia*)
- 4 Gray birch (*Betula populifolia*)
- 4 Bitternut hickory (*Carya cordiformis*)
- 4 Lacebark pine (*Pinus bungeana*)
- 3 Horse chestnut (*Aesculus hippocastanum*)
- 3 Southern catalpa (*Catalpa bignonioides*)
- 3 Pagodatree (*Styphnolobium japonicum*)
- 2 Black oak (*Quercus velutina*)

- 2 Atlas cedar (*Cedrus atlantica*)
- 2 Hardy rubber tree (*Eucommia ulmoides*)
- 1 Lebanon cedar (*Cedrus libani*)
- 1 Centurion flowering crabapple (*Malus 'Centurion'*)

TOTAL

3,467 Contractor Balled & Burlapped trees

G. Contractor Container Plantings by Park

Highbridge Park	Manhattan	2,984	Contractor container trees
Cunningham Park	Queens	2,110	Contractor container trees
Brookville Park	Queens	500	Contractor container trees
Alley Pond Park	Queens	810	Contractor container trees

TOTAL

6,404 Contractor container trees

H. Contractor Container Plantings by Species

- 541 Red oak (*Quercus rubra*)
- 502 American hornbeam (*Carpinus caroliniana*)
- 500 Scarlet oak (*Quercus coccinea*)
- 483 Black cherry (*Prunus serotina*)
- 445 Black oak (*Quercus velutina*)
- 420 Black tupelo (*Nyssa sylvatica*)
- 394 Tulip poplar (*Liriodendron tulipifera*)
- 300 Flowering dogwood (*Cornus florida*)
- 265 White pine (*Pinus strobus*)
- 257 Shadbush (*Amelanchier canadensis*)
- 224 Hackberry (*Celtis occidentalis*)
- 208 Pin oak (*Quercus palustris*)
- 187 Bitternut hickory (*Carya cordiformis*)
- 185 White oak (*Quercus alba*)
- 166 Black walnut (*Juglans nigra*)
- 150 Bur oak (*Quercus macrocarpa*)
- 139 Chestnut oak (*Quercus prinus*)
- 126 Sassafras (*Sassafras albidum*)
- 125 Redbud (*Cercis canadensis*)
- 125 Sweetgum (*Liquidambar styraciflua*)
- 102 Swamp white oak (*Quercus bicolor*)
- 100 Hop-hornbeam (*Ostrya virginiana*)
- 96 Juneberry (*Amelanchier laevis*)
- 89 American beech (*Fagus grandifolia*)
- 67 Limber pine (*Pinus flexilis*)
- 50 Choke cherry (*Prunus virginiana*)
- 50 Sourwood (*Oxydendron arboreum*)

36	American holly (<i>Ilex opaca</i>)
27	Cucumber magnolia (<i>Magnolia acuminata</i>)
25	Eastern red cedar (<i>Juniperus virginiana</i>)
20	Pitch pine (<i>Pinus rigida</i>)

TOTAL 6,404 Contractor Container Trees

II. Groundcover Plantings

A. Groundcover Planting Totals by Park

Van Cortlandt Park	Bronx	9,478	Groundcover plants
Riverdale Park	Bronx	4,966	Groundcover plants
Pelham Bay Park	Bronx	2,659	Groundcover plants
Inwood Hill Park	Manhattan	2,100	Groundcover plants
Conference House Park	Staten Island	1,300	Groundcover plants
Fort Washington Park	Manhattan	32	Groundcover plants
Sailors Snug Harbor	Staten Island	1	Groundcover plants
TOTAL		20,536	Groundcover plants

B. Groundcover Plantings by Species

2,430	Blue-stemmed goldenrod (<i>Solidago caesia</i>)
2,246	Appalachian sedge (<i>Carex appalachia</i>)
2,224	Path rush (<i>Juncus tenuis</i>)
2,140	White wood aster (<i>Aster divaricatus</i>)
2,042	Rosy sedge (<i>Carex rosea</i>)
2,018	White snakeroot (<i>Eupatorium rugosum</i>)
1,834	Heart-leaved aster (<i>Aster cordifolius</i>)
1,204	Carolina cranesbill (<i>Geranium carolinianum</i>)
459	Woodland sunflower (<i>Helianthus divaricatus</i>)
406	Common milkweed (<i>Asclepias syriaca</i>)
392	Pennsylvania sedge (<i>Carex pennsylvanica</i>)
288	Pointed broom-sedge (<i>Carex scoparia</i>)
288	Poverty grass (<i>Danthonia spicata</i>)
210	Wild columbine (<i>Aquilegia canadensis</i>)
200	Smooth aster (<i>Aster laevis</i>)
200	Butterfly weed (<i>Asclepias tuberosa</i>)
200	Early goldenrod (<i>Solidago juncea</i>)
200	Grass-leaved goldenrod (<i>Euthamia graminifolia</i>)
200	Virginia wild rye (<i>Elymus virginicus</i>)

- 192 Black grass (*Juncus gerardii*)
- 192 Jumpseed (*Polygonum virginianum*)
- 192 Soft rush (*Juncus effusus*)
- 192 Swan's sedge (*Carex swanii*)
- 150 White vervain (*Verbena urticifolia*)
- 144 Globose flatsedge (*Cyperus echinatus*)
- 100 Christmas fern (*Polystichum acrostichoides*)
- 96 Cardinal flower (*Lobelia cardinalis*)
- 64 Hollow joe-pye weed (*Eupatorium fistulosum*)
- 32 Jack-in-the-pulpit (*Arisaema triphyllum*)
- 1 Button sedge (*Carex bullata*)

TOTAL 20,536 Groundcover plants