



City of New York
Parks & Recreation

The Arsenal
Central Park
New York, New York 10021

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Commissioner

Natural Resources Group

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Natural Resources Group Forest Restoration Team Planting Report Spring 2007

Spring 2007 proved to be another productive season for the Forest Restoration Team, which consists of 9 full-time employees, 2 seasonals, and 2 interns for the season. The team received assistance from other members of the NRG staff along with 11 volunteer and school groups. Plantings took place in 11 parks in 3 boroughs. Below is a summary of the work completed in the Spring of 2007.

- Planted 16,749 containerized trees and shrubs (2006 – 4,381)
- Planted 18,016 herbaceous plants (2006 – 4,691)
- Hosted 19 volunteer events with 647 volunteers from 11 different volunteer and school groups (2006 – 13, 248, 7)
- Planted 39 pounds of native groundcover seed (2006 – 162)



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Natural Resources Group
Forest Restoration Team Planting Report
Spring 2007

I. Tree Plantings

The Natural Resources Group (NRG) Forest Restoration Team planted 16,749 trees and shrubs in total during the Spring 2007 planting season. Plantings of 50 species took place in 11 parks in 3 boroughs. Majority of the plants were 2-3 foot containerized plants.

A. Containerized Plantings by Park

Alley Pond Park	Queens	3,021	containerized trees and shrubs
Riverdale Park	Bronx	2,929	containerized trees and shrubs
Pelham Bay Park	Bronx	2,757	containerized trees and shrubs
Inwood Hill Park	Manhattan	2,115	containerized trees and shrubs
Bronx River	Bronx	1,690	containerized trees and shrubs
Van Cortlandt Park	Bronx	1,369	containerized trees and shrubs
Ferry Point Park	Bronx	1,100	containerized trees and shrubs
University Heights	Bronx	911	containerized trees and shrubs
Fort Washington	Manhattan	672	containerized trees and shrubs
Oakland Lake	Queens	150	containerized trees and shrubs
Pugsley Creek	Bronx	35	containerized trees and shrubs

TOTAL **16,749 Trees and Shrubs**

B. Containerized Plantings by Species

2,236	Northern red oak (<i>Quercus rubra</i>)
1,656	Arrowwood viburnum (<i>Viburnum dentatum</i>)
1,449	Chestnut oak (<i>Quercus prinus</i>)
1,201	Red-osier dogwood (<i>Cornus sericea</i>)
1,109	White oak (<i>Quercus alba</i>)
1,027	Black birch (<i>Betula lenta</i>)
774	Black oak (<i>Quercus velutina</i>)

570	Tulip poplar (<i>Liriodendron tulipifera</i>)
552	Spicebush (<i>Lindera benzoin</i>)
500	White flowering redbud (<i>Cercis canadensis</i>)
461	Winterberry (<i>Ilex verticillata</i>)
448	American elder (<i>Sambucus canadensis</i>)
376	Grey-twig dogwood (<i>Cornus racemosa</i>)
293	Flowering dogwood (<i>Cornus florida</i>)
268	Pin oak (<i>Quercus palustris</i>)
259	Sugar maple (<i>Acer saccharum</i>)
239	Hackberry (<i>Celtis occidentalis</i>)
235	Red maple (<i>Acer rubrum</i>)
210	Silky dogwood (<i>Cornus amomum</i>)
200	Black chokeberry (<i>Aronia melanocarpa</i>)
200	Shadblow (<i>Amelanchier canadensis</i>)
196	Green ash (<i>Fraxinus pennsylvanica</i>)
192	American beech (<i>Fagus grandifolia</i>)
187	Black gum (<i>Nyssa sylvatica</i>)
161	American elm (<i>Ulmus americana</i>)
142	Sweetgum (<i>Liquidambar styraciflua</i>)
140	Highbush blueberry (<i>Vaccinium corymbosum</i>)
140	Swamp white oak (<i>Quercus bicolor</i>)
133	Silver maple (<i>Acer saccharinum</i>)
125	River birch (<i>Betula nigra</i>)
113	Persimmon (<i>Diospyros virginiana</i>)
108	Shining sumac (<i>Rhus copallina</i>)
106	Chokeberry (<i>Aronia arbutifolia</i>)
100	Black raspberry (<i>Rubus occidentalis</i>)
100	Sassafras (<i>Sassafras albidum</i>)
100	Scarlet oak (<i>Quercus coccinea</i>)
80	Blackhaw (<i>Viburnum prunifolium</i>)
52	Witch hazel (<i>Hamamelis virginiana</i>)
49	Smooth sumac (<i>Rhus glabra</i>)
34	Eastern red cedar (<i>Juniperis virginiana</i>)
33	Butternut (<i>Juglans cinerea</i>)
29	Bitternut hickory (<i>Carya cordiformis</i>)
25	Strawberry bush (<i>Euonymus americana</i>)
20	American holly (<i>Ilex opaca</i>)
20	Inkberry (<i>Ilex glabra</i>)
18	Staghorn sumac (<i>Rhus typhina</i>)
10	Box elder (<i>Acer negundo</i>)
7	Black walnut (<i>Juglans nigra</i>)
5	Shagbark hickory (<i>Carya ovata</i>)
1	Quaking aspen (<i>Populus tremuloides</i>)

TOTAL

16,749 containerized trees and shrubs

II. Groundcover Plantings

During the Spring 2007 planting season, NRG Forest Restoration staff planted a total of 18,016 herbaceous groundcover plants, representing 27 species. Groundcover root systems reduce sedimentation and non-point source pollution by stabilizing steep, eroded slopes and streambanks. Cribbing and jute or coir mats temporarily stabilize the slope and groundcover vegetation is planted through the mat. The mats and cribbing eventually biodegrade as the root systems become established. The majority of these plants were 2 ½ “ by 2 ½ “ plugs.

A. Groundcover Planting Totals By Park

Pelham Bay Park	Bronx	6,308	plants
Riverdale Park	Bronx	6,119	plants
Alley Pond Park	Queens	3,384	plants
University Heights	Bronx	1,756	plants
Bronx River	Bronx	384	plants
Inwood Hill Park	Manhattan	65	plants

TOTAL **18,016 Groundcover plants**

B. Groundcover Plantings Totals by Species

2,761	Blue stemmed goldenrod (<i>Solidago caesia</i>)
2,052	White wood aster (<i>Eurybia divaricata</i>)
2,208	White snakeroot (<i>Eupatorium rugosum</i>)
2,120	Path rush/ Poverty rush (<i>Juncus tenuis</i>)
2,030	Virginia creeper (<i>Parthenocissus quinquefolia</i>)
1,037	Heart leaf aster (<i>Aster cordifolia</i>)
916	Rough avens (<i>Geum virginianum</i>)
948	Avens (<i>Geum canadense</i>)
708	Pennsylvania sedge (<i>Carex pennsylvanica</i>)
592	Rosy sedge (<i>Carex rosea</i>)
500	Switchgrass (<i>Panicum virgatum</i>)
332	Woodland sunflower (<i>Helianthus divaricatus</i>)
260	Creeping phlox (<i>Phlox stolonifera</i>)
250	Black bulrush (<i>Scirpus atrovirens</i>)
250	Crinkled sedge (<i>Carex crinita</i>)
250	Rose mallow (<i>Hibiscus moscheutos</i>)
250	New England aster (<i>Aster novea-belgii</i>)
200	Hay-scented fern (<i>Dennstaedtia punctilobula</i>)
150	Woolgrass (<i>Scirpus cyperinus</i>)
100	Common milkweed (<i>Asclepias syriaca</i>)
100	Eastern Joe-Pye weed (<i>Eupatorium dubium</i>)
100	Large blue flag (<i>Iris versicolor</i>)
96	Mountain mint (<i>Pycnanthemum virginianum</i>)
50	Cardinal flower (<i>Lobelia cardinalis</i>)

50 Foamflower (*Tiarella cordifolia*)
32 Spring beauty (*Claytonia virginica*)
24 Cinnamon fern (*Osmunda cinamonea*)

TOTAL

18,016 Groundcover plants