



City of New York
Parks & Recreation

The Arsenal
Central Park
New York, New York 10021

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Natural Resources Group

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Natural Resources Group - Forest Restoration Team Fall 2007 Summary

This fall was a productive season for the Natural Resources Group (NRG) Forest Restoration Team. For the season, the team consisted of 12 (2006 - 10) full time foresters. Assistance was provided by other NRG staff, and 18 volunteer and school groups. Plantings took place in 14 parks in five boroughs. The following is a summary of the work completed in the Fall of 2007.

- Planted 26,164 2-3' containerized trees and shrubs (2006 – 9,730).
- Planted 13,399 herbaceous plants (2006 –8,690).
- Hosted 18 volunteer events with 1,273 volunteers from 14 different volunteer and school groups (2006 – 7, 95, 5).
- Planted 11 pounds of native groundcover seed (2005 – 10).



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**Natural Resources Group
Forest Restoration Team Planting Report
Fall 2007**

I. Tree Plantings

During the Fall 2007 planting season, the Natural Resources Group (NRG) Forest Restoration Team planted a total of 26,164 trees and shrubs. These plantings, containing 60 species, took place throughout 14 different parks in three boroughs. The majority were 2-3 foot containerized plants.

A. Containerized Plantings by Park

Bronx River – Bronx	3,763	containerized trees and shrubs
Kissena Park – Queens	2,900	containerized trees and shrubs
Van Cortlandt Park – Bronx	2,247	containerized trees and shrubs
Alley Pond Park – Queens	2,107	containerized trees and shrubs
Greenbelt/Bloodroot – Staten Island	2,100	containerized trees and shrubs
Ferry Point Park – Bronx	2,054	containerized trees and shrubs
Riverdale Park – Bronx	2,040	containerized trees and shrubs
Pelham Bay Park – Bronx	2,007	containerized trees and shrubs
Four Sparrow Marsh – Brooklyn	2,000	containerized trees and shrubs
Inwood Hill Park – Manhattan	1,887	containerized trees and shrubs
Randall’s Island – Manhattan	1,100	containerized trees and shrubs
Fort Washington – Manhattan	923	containerized trees and shrubs
University Heights Woods – Bronx	691	containerized trees and shrubs
Fort Tryon Park – Manhattan	345	containerized trees and shrubs

TOTAL

26,164 Trees and Shrubs

B. Containerized Plantings by Species

3,772	Northern red oak (<i>Quercus rubra</i>)
1,748	Arrowwood viburnum (<i>Viburnum dentatum</i>)
1,488	Tulip poplar (<i>Liriodendron tulipifera</i>)
1,318	Pin oak (<i>Quercus palustris</i>)
1,272	Black gum (<i>Nyssa sylvatica</i>)
1,160	Chestnut oak (<i>Quercus prinus</i>)
1,097	Sweetgum (<i>Liquidambar styraciflua</i>)
999	Black oak (<i>Quercus velutina</i>)
896	Black chokeberry (<i>Aronia melanocarpa</i>)
891	Red maple (<i>Acer rubrum</i>)
857	White oak (<i>Quercus alba</i>)
817	Silky dogwood (<i>Cornus amomum</i>)
812	Swamp white oak (<i>Quercus bicolor</i>)
792	Hackberry (<i>Celtis occidentalis</i>)
788	Red chokeberry (<i>Aronia arbutifolia</i>)
722	Serviceberry (<i>Amelanchier canadensis</i>)
624	Eastern redbud (<i>Cercis canadensis</i>)
624	Red-osier dogwood (<i>Cornus sericea</i>)
610	Silver maple (<i>Acer saccharinum</i>)
449	American sycamore (<i>Plantanus occidentalis</i>)
372	Black walnut (<i>Juglans nigra</i>)
364	Winterberry (<i>Ilex verticillata</i>)
350	Gray birch (<i>Betula populifolia</i>)
300	Spicebush (<i>Lindera benzoin</i>)
295	Sassafras (<i>Sassafras albidum</i>)
236	Gray-twig dogwood (<i>Cornus racemosa</i>)
186	Black birch (<i>Betula lenta</i>)
186	American hornbeam (<i>Carpinus caroliniana</i>)
180	Green ash (<i>Fraxinus pensylvanica</i>)
154	Highbush blueberry (<i>Vaccinium corymbosum</i>)
152	Witch hazel (<i>Hamamelis virginiana</i>)
136	Scarlet oak (<i>Quercus coccinea</i>)
120	Northern red cedar (<i>Thuja occidentalis</i>)
112	Sweetpepper bush (<i>Clethra alnifolia</i>)
98	Mockernut hickory (<i>Carya tomentosa</i>)
83	Shagbark hickory (<i>Carya ovata</i>)
80	American holly (<i>Ilex opaca</i>)
79	Elderberry (<i>Sambucus canadensis</i>)
75	Sugar maple (<i>Acer saccharam</i>)
70	River birch (<i>Betula nigra</i>)
65	Persimmion (<i>Diospyros virginiana</i>)
61	Flowering dogwood (<i>Cornus florida</i>)
57	Strawberry bush (<i>Euonymous americana</i>)
57	American elm (<i>Ulmus americana</i>)

- 48 Upland low blueberry (*Vaccinium palladium*)
- 48 Boxelder (*Acer negundo*)
- 40 Black haw (*Viburnum prunifolium*)
- 39 White ash (*Fraxinus americana*)
- 37 Heart-shaped willow (*Salix eriocephala*)
- 31 Hophornbeam (*Ostrya virginiana*)
- 28 Winged sumac (*Rhus copallinum*)
- 25 Cottonwood (*Populus deltoides*)
- 20 Smooth sumac (*Rhus glabra*)
- 13 Lowbush Blueberry (*Vaccinium angustifolium*)
- 13 Blackberry (*Rubus allegheniensis*)
- 9 Staghorn sumac (*Rhus typhina*)
- 7 Eastern white pine (*Pinus strobus*)
- 7 Pignut hickory (*Carya glabra*)
- 2 Eastern red cedar (*Juniperis virginiana*)

TOTAL

26,164 Containerized Trees and Shrubs

II. Groundcover Plantings

During the Fall 2007 planting season, NRG Forest Restoration staff planted a total of 13,399 herbaceous groundcover plants, representing 16 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 (Hunter Island) - Bronx	6,155 plants
Riverdale Park – Bronx	3,048 plants
University Heights Woods – Bronx	2,378 plants
Van Cortlandt Park – Bronx	1,818 plants

TOTAL **13,399 Groundcover Plants**

B. Groundcover Planting Totals by Species

1,801	Blue wood aster (<i>Symphyotrichum cordifolius</i>)
1,623	White wood aster (<i>Eurybia divaricata</i>)
1,536	Rosy sedge (<i>Carex rosea</i>)
1,505	Path rush (<i>Juncus tenuis</i>)
1,503	Virginia creeper (<i>Parthenocissus quinquefolia</i>)
1,466	White snake root (<i>Eupatorium rugosum</i>)
1,176	Pennsylvania sedge (<i>Carex pennsylvanica</i>)
1,060	Blue stemmed goldenrod (<i>Solidago caesia</i>)
912	Appalachian sedge (<i>Carex appalachica</i>)
264	White avens (<i>Geum canadenses</i>)
192	Rough avens (<i>Geum virginiana</i>)
96	Giant sunflower (<i>Helianthus giganteus</i>)
96	Seaside goldenrod (<i>Solidago sempervirens</i>)
73	Thin-leafed sunflower (<i>Helianthus decapetalus</i>)
64	Woodland sunflower (<i>Helianthus divaricatus</i>)
32	Swamp sunflower (<i>Helianthus angustifolius</i>)

TOTAL **13,399 Groundcover Plants**