

# Natural Area Mapping and Inventory of Reed's Basket Willow Swamp 2011–2012 Survey

Prepared by the Greenbelt Natural Resources Team



NYC Parks

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# Section I. Reed's Basket Willow Swamp Natural Area Mapping & Inventory

**52.4 acres**

## *Introduction*

City of New York Parks & Recreation (DPR) manages one of the most extensive and varied parks systems of any city in the world. These 29,000 acres of city park property occupy about 15 percent of New York City's total area. **In addition to flagship parks such as Central Park and Prospect Park, the city's parklands include over 11,000 acres of natural areas.**

**Until the 1980's**, DPR was primarily concerned with developed landscapes and recreation facilities rather than natural areas. In the absence of a comprehensive management policy, these areas succumbed to invasive species, pollution and erosion.

In 1984, DPR established the Natural Resources Group (NRG) with a mandate to acquire, restore and manage natural areas in New York City. The wetlands, forests, meadows, and shorelines **under NRG's jurisdiction provide valuable habitat for hundreds of species, from rare wildflowers to endangered birds of prey.** In addition to the goals mentioned above, NRG serves as a **clearinghouse for technical research to aid in the protection and restoration of the city's natural resources.**

**This park's unusual name is inspired by the Read family, owners of the land** for several generations. John Read (1786-1849), started a family tradition when he decided to try his luck at basket making, and planted the swampy land around his farm with purple willow trees. The willow tree buds every spring, at which point it is at the peak condition to be harvested. The sap flowing under the bark makes it easy for farmers to peel the bark off the trunk. After the bark has been removed and soaked in water, it is cut into strips and woven into the distinctive baskets.

Basket weaving was **a common occupation among rural Staten Islanders. The island's ecological conditions promoted the industry by providing a perfect climate for the willow, oak, and ash trees needed for the manufacture.** The work was highly specialized, requiring a long apprenticeship to learn the tools and techniques of production. Local craftsmen continued to make baskets on Staten Island even after other, much cheaper, mass-produced containers became available in the 1870s. The story of the Read family ended in an odd fashion, however, when the son of John Read sold the **house and land. He then "grew despondent," and burned the house down.**

A forest covers nearly half the area of this property. Young oak (*Quercus spp.*) predominates, interspersed with birches (*Betula spp.*), tulip magnolias (*Liriodendron tulipifera*), hickory (*Carya spp.*), and chestnut trees (*Castanea spp.*). Hiking trails guide explorers through the woods. The yellow trail can be found on Ocean Terrace near Todt Hill Road, and at the top of Emerson Court. Three ponds and a swamp round out the terrain.

Brooks and ponds were a common sight on Staten Island up until the 1950s, when construction of pipelines and trenches began to wreak changes on the physical landscape. Large cranes and bulldozers loosened the soil surrounding open water, causing serious erosion. The depth and area of

many ponds was severely reduced. The Great Swamp (now known as Long Creplebush), Clove Valley Swamp, Lower Swamp, and Reed's Basket Willow Swamp (Upper Swamp) were some of the larger bodies of water to be affected by construction. While some of the natural vegetation in these areas was killed off as a result of the changing ecosystem, these changes opened the way for vigorous new growth. Blackberry bushes (*Rubus allegheniensis*), Japanese knotweed (*Polygonum cuspidatum*), swamp white azaleas (*Rhododendron viscosum*), and flowering dogwood (*Cornus florida*) are just a few of the many species of trees and shrubs presently found in the park.

In 1978, the property was designated as a protected freshwater wetland by the New York State Department of Environmental Conservation, permanently ensuring its preservation under state law. The City had acquired the property in the early 1970s, and it was transferred to Parks on November 18, 1980 in recognition of its ecological importance and protected status. By 1997, the addition of several parcels of land swelled the park to its current size.

**Reed's Basket Willow Swamp lies at the top of Emerson Court, bounded by Ocean Terrace and Merrick Avenue.** It is part of the Greenbelt, the largest subsystem of parks located in New York City. Established in 1984 and covering nearly 3,000 acres in central Staten Island, the Greenbelt is home to a variety of plant and animal life, as well as roughly 35 miles of nature trails. Other parks in the system include High Rock Park, Greenbelt Native Plant Nursery, the William T. Davis Wildlife Refuge, LaTourette Park, and Willowbrook Park. The Greenbelt Conservancy, Inc., founded in 1989, helps Parks to protect and care for the Greenbelt, sponsoring weekend nature walks and other environmental education programs and festivals.

The Greenbelt Natural Resources Team (GNRT) oversees the development and implementation of **ecologically based management practices throughout Reed's Basket Willow Swamp** and the entire Staten Island Greenbelt to preserve the environmental integrity of the natural parkland. In 2011 and 2012, to continue addressing the natural resource management and restoration needs of the **Greenbelt, an inventory of Reed's Basket Willow Swamp** was conducted by GNRT with the assistance of a New York State Department of Environmental Conservation Urban and Community Forestry Grant. GNRT utilized entitation, a process of identifying and describing ecologically distinct plant communities, using aerial photographs and field reconnaissance. The plant communities were delineated into entitation units, based on cover type, understory structure, species composition and topography. Evidence of historical use, current use, environmental **disturbance and additional notes were also recorded for each unit.** Entitation of Reed's Basket Willow Swamp resulted in maps and a database that can be used to locate valuable and threatened areas, plan invasive species management, track future restoration efforts and indicate possible capital improvement projects in and around the park. The maps and database also serve as a baseline for measuring change over time. Both maps and a report from the database are included in this report.

## *Entitation*

Entitation is a type of plant community inventory well suited to the patchy environments often found in urban areas. Originally designed for European landscapes, the system was revised by **NRG in 1985 for use in New York City's urban parklands.** NRG has used entitation widely and successfully to facilitate acquisition and restoration decisions. Put simply, entitation is a process of **breaking up a park into manageable parts called "entities" or "entitation units."** Entitation units are defined using a weighted list of criteria. Distinction is based on:

- Cover type (e.g. closed forest, vineland, scrub)
- Canopy species composition
- Understory type (e.g. herbs, vines, shrubs),
- Understory species composition.
- Additional factors that define entitation units, such as topography and soil condition (e.g. wet, moist, dry) are recorded.

To prepare for fieldwork, mapping technicians examine aerial photographs and delineate areas of similar cover. The mapping staff uses the aerial information to create a strategy for delineating entitation units in the area. In the field, boundaries are identified as described above. For each unit, staff records the data listed above, as well as current uses, environmental disturbances, historical indicators, community stability, and comments.

**In Reed's Basket Willow Swamp, staff identified 103 discrete vegetation units** in the 52.4 acres. To date, **Reed's Basket Willow Swamp, High Rock Park, Willowbrook Park and Deere Park** have completed entitation inventories in the Greenbelt. High Rock Park entitation units are 1 to 60, Willowbrook Park entitation units are 61 to 240, Deere Park entitation units are 241 to 266 and **Reed's Basket Willow Swamp begins with unit 267 ending with unit 369.**

## *Acknowledgements*

Cover page photo credit: Clara Holmes

2012 Greenbelt Natural Resources Team Internship 2011: Olena Borkovska, Jared Segal,

2012 Greenbelt Natural Resources Team Internship 2012: Johnathan Wadolowski, Anna Puchkoff, Scott Stuk

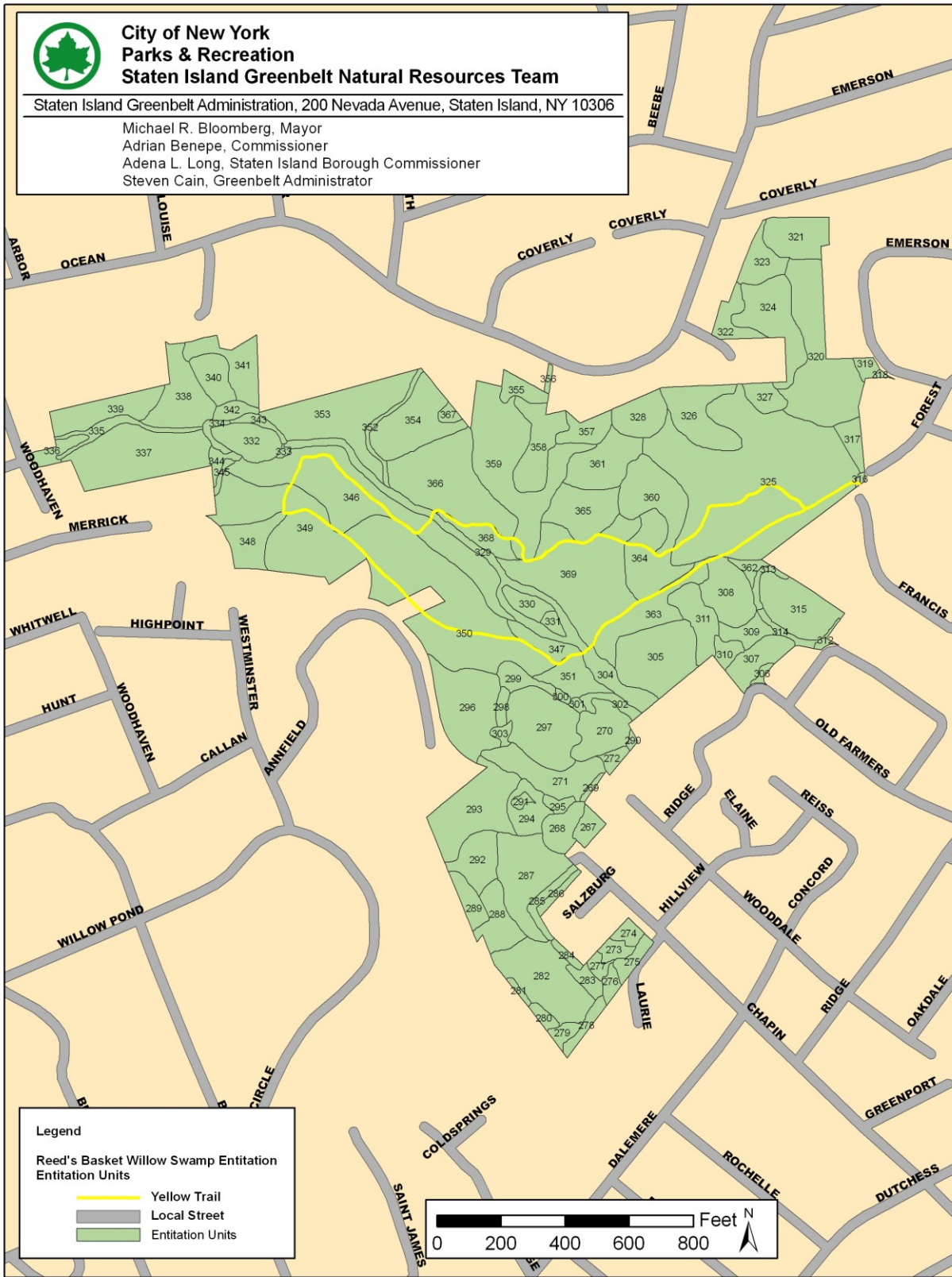
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## Section II. Entitation Maps



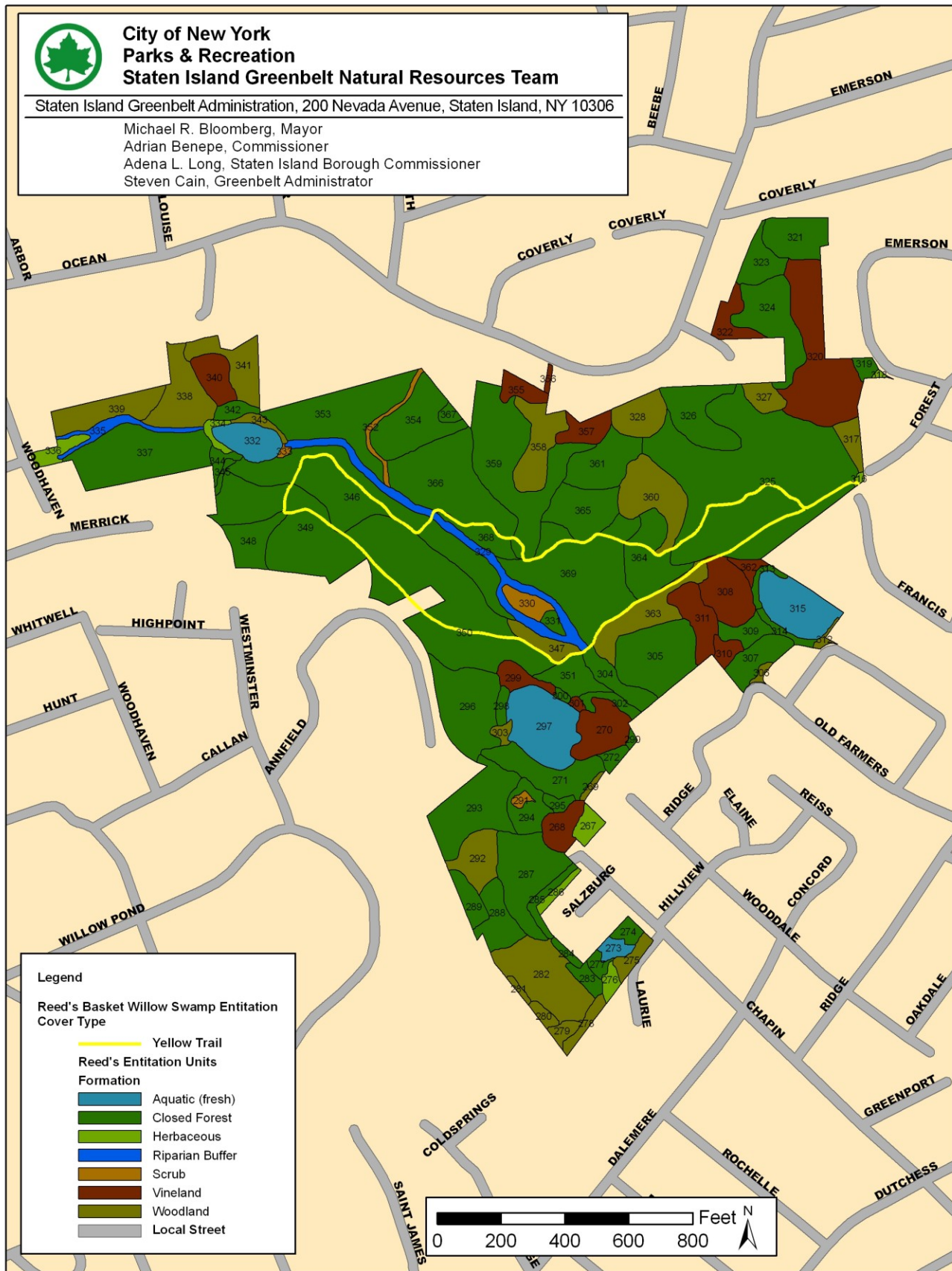




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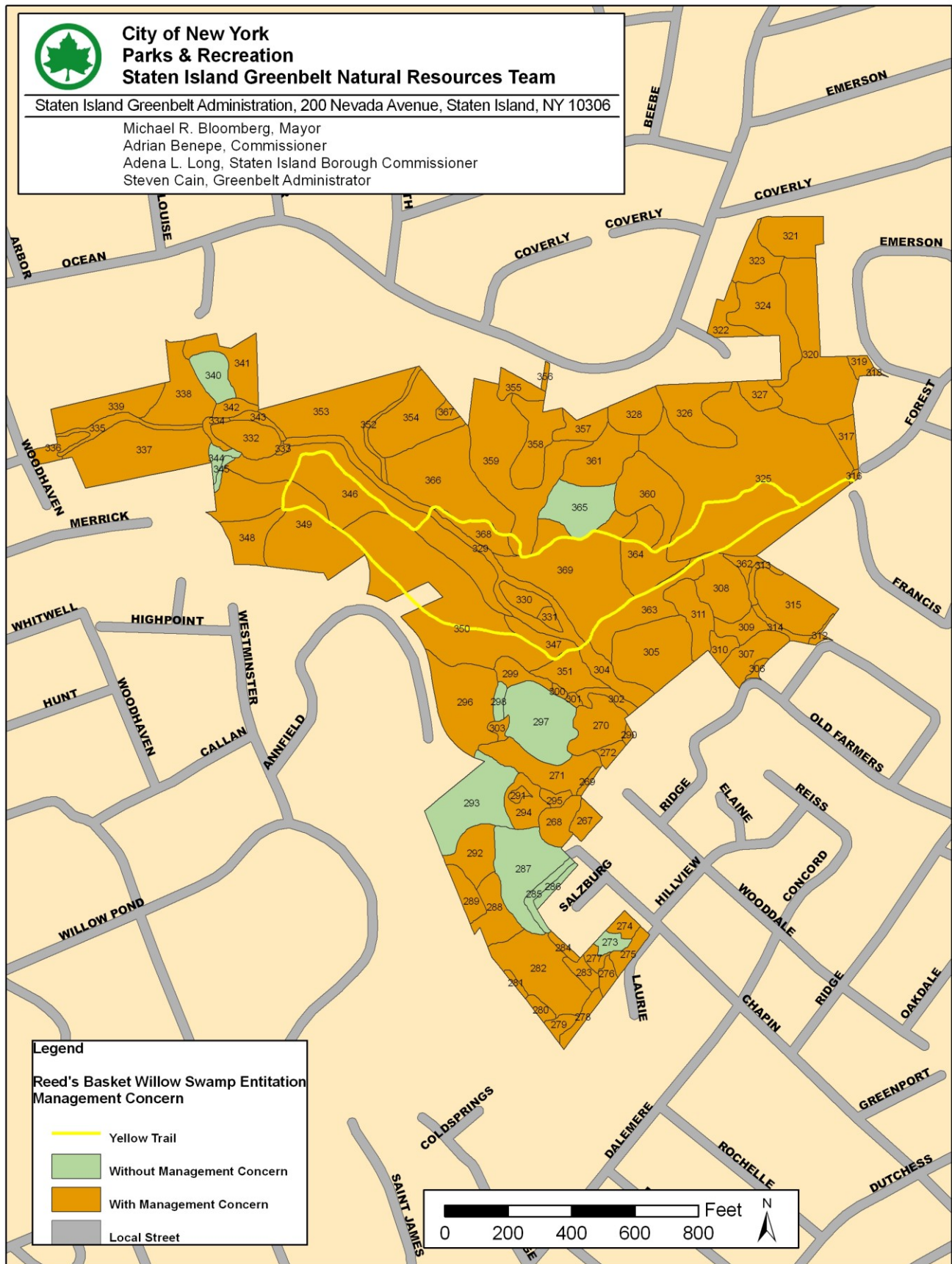




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## Section III. Reed's Basket Willow Swamp Unit Descriptions, Surveyed 2011-2012

Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	267	<b>Classification</b>	IV 3B3	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.1618	Is species composition changing?	No	Deer Impact
<b>Date:</b>	3/31/2011	Is community structure changing?	Yes	Invasive Sp.

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Herbaceous	mugwort	<5'	Yes		Full-crown tree	None
Deciduous	common plantain	<5'	No			
Geophytes	cool season grass	<5'	Yes			
Dry/Moist	clover spp.	<5'	Yes			
Slope	dandelion	<5'	Yes			
	common plantain	<5'	Yes			

### **Comments**

This is an herbaceous unit. There was PlaNYC planting here. The unit is at the end of Chapin Ave. behind some homes. Other species include flowering dogwood, white pine, tulip poplar, oak, sedges, Japanese honeysuckle, rhododendron, foxtail, strawberry, mugwort, multiflora rose, wild onion and dandelion.

<b>Unit:</b>	268	<b>Classification</b>	VIII B	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.31068	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	3/31/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Vineland	multiflora rose	<5' & 5-30'	Yes		Foot traffic	Dumping
Deciduous	porcelainberry	<5' - >30'	Yes			Trash
Chamaephytes	mugwort	<5' & 5-30'	Yes			
Dry/Moist	Japanese honeysuckle	<5'	Yes			
Slope	sweetgum	<5' - >30'	No			
	Rubus	<5' & 5-30'	No			

### **Comments**

This unit is a vineland. It is at the end of Chapin Ave. and a desire line runs through it. There is a "Greenbelt Chapin Woods" sign. The unit is dominated by vines with some trees overtaken by them. Other species include pokeweed, moss spp., tulip poplar, poison ivy, eastern hackberry, black walnut, black birch, London planetree, sweetgum and porcelainberry.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	269	<b>Classification</b>	II A2ae	<b>Management Concerns</b>
<b>Acreage</b>	0.040525	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	3/31/2011	Is community structure changing?	No	Encroachment

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	Arborvitae, nigra	>30' & 5-30'	No	Hedgerow		Dumping
Evergreen	English ivy	<5'	Yes			Trash
Lianas	cool season grass	<5'	Yes			
Dry/Moist						
Level						

### **Comments**

This unit is a woodland. The unit is a hedgerow of arborvitae and looks to be planted by the homeowner as a screen. There is a lot of landscape dumping. Other species include English ivy and Norway maple.

<b>Unit:</b>	270	<b>Classification</b>	VIII B	<b>Management Concerns</b>
<b>Acreage</b>	0.551431	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	3/31/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	multiflora rose	<5' & 5-30'	Yes		Foot traffic	Erosion
Deciduous	porcelainberry	<5' - >30'	Yes			Dumping
Chamaephytes	oriental bittersweet	<5' - >30'	Yes			Vandalism
Dry/Moist	Japanese honeysuckle	<5' - >30'	Yes			
Undulating	Sweetgum	<5' - >30'	No			

### **Comments**

This unit is a vineland located in the south part of the park adjacent to a large pond. There is a stream that runs through it and a road that enters the unit at the park boundary. It looks as if this is a dumping site for landscape waste. Other species include black cherry, blackberry, sassafras, skunk cabbage, yew, red oak, black birch and privet.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	271	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.686955	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	3/31/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5'- >30'	No	Landfill	Foot traffic	Soil compaction
Deciduous	sweet pepperbush	<5' & 5-30'	No		Vehicle access	Dumping
Chamaephytes	black birch	<5'- >30'	No			Vandalism
Dry/Moist	American beech	<5'- >30'	No			
Knoll	white oak	>30' & 5-30'	No			
	sassafras	<5'- >30'	No			

### **Comments**

This unit is a closed forest. It is a large berm that slopes down to a pond, and there is a desire line that goes through the unit. Also, there is a steep slope to the south side as well. This is a heavily used area with access to the pond and evidence of paintball. A dirt road enters into the unit from Ridge Loop. Other species include highbush blueberry, pinxter azalea, spruce spp., tulip poplar, black cherry, black locust, moss, striped wintergreen, sweetgum, yew, roundleaf wintergreen and flowering dogwood.

<b>Unit:</b>	272	<b>Classification</b>	I B2a1	<b>Management Concerns</b>
<b>Acreage</b>	0.095076	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	3/31/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	black birch	<5'- >30'	No			Dumping
Deciduous	sweetgum	<5'- >30'	No		Foot traffic	Trash
Phanerophytes	sassafras	<5'- >30'	No		Vehicle access	
Wet	oriental bittersweet	<5'- >30'	Yes			
Slope	English ivy	<5'	Yes			

### **Comments**

This unit is a closed forest. It is adjacent to a large vineland and the park boundary behind a home in the south part of the park off of Ridge Loop. There is a lot of trash and landscape dumping in the unit. Other species include white pine, Rhododendron spp., highbush blueberry, pin oak, red maple, wisteria, oriental bittersweet, English ivy and multiflora rose.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	273	<b>Classification</b>	IV B1b	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.125902	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/5/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Aquatic (fresh)	Phragmites	<5' & 5-30'	Yes			
Deciduous	sweetgum	>30' & 5-30'	No			
Geophytes	American elm	<5' & 5-30'	No			
Surface water	pondweed	<5'	No			
Depression						

### **Comments**

This is a pond that is maintained by homeowners in the neighborhood. The pond is in a maintained park at the corner of Chapin Ave. and Laurie Ct.

<b>Unit:</b>	274	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.120244	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/5/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	sweetgum	<5'- >30'	No			Trash
Deciduous	sweet pepperbush	<5' & 5-30'	No			
Chamaephytes	multiflora rose	<5' & 5-30'	Yes			
Dry/Moist	red maple	<5'- >30'	No			
Undulating	black locust	<5'- >30'	Yes			

### **Comments**

The unit is located off of Chapin Av. behind a large house. The unit is natural compared to other surrounding units. Other species include hickories, black cherry, poison ivy, white ash, blackhaw, moss spp., asters, southern arrowwood, highbush blueberry, river birch, multiflora rose, Japanese honeysuckle and porcelainberry.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	275	<b>Classification</b>	II B2a4	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.159966	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/5/2011	Is community structure changing?	Yes	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	cool season grass	<5'	Yes	Full-crown tree	Other	Trash
Deciduous	Phragmites	<5' & 5-30'	Yes		Foot traffic	
Geophytes	goldenrod	<5'	No			
Moist	red maple	<5' & 5-30'	No			
Level	serviceberry	<5'	No			
	weeping willow	>30'	Yes			

### **Comments**

The unit runs along Laurie Ct., between the court and a pond. The spot is heavily maintained and landscaped by the neighbors. An outlet from the pond empties out into a drain on the street. Other species include Rhododendron spp., kousa dogwood, black locust, buttonbush, chokecherry, swamp rose, sweetgum, London planetree, green ash, multiflora rose, Phragmites and mugwort.

<b>Unit:</b>	276	<b>Classification</b>	IV A3a6	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.104041	Is species composition changing?	No	Encroachment
<b>Date:</b>	4/5/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Herbaceous	cool season grass	<5'	Yes	Hedgerow	Picnic	
Mixed	arborvitae	5'-30'	No			
Geophytes	Phragmites	<5'	Yes			
Moist	Eastern cottonwood	>30'	No			
Level	pussy willow	5'-30'	No			

### **Comments**

This is an herbaceous community. It is a lawn area by a neighboring home. Other species include yucca.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	277	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.086758	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/5/2011	Is community structure changing?	No	Encroachment

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	Eastern cottonwood	5'-30'	No			
Deciduous	weeping willow	5'-30'	No			
Chamaephytes	bamboo spp.	<5'	Yes			
Wet	violet	<5'	No			
Level	cress spp.	<5'	No			
	mugwort	<5'	Yes			

### **Comments**

This is a closed forest unit. It is adjacent to a pond and a lawn from a nearby home. Other species include goldenrod, oak, red maple, sycamore, plantain, black walnut, daffodils, garlic mustard, mugwort, Norway spruce, multiflora rose, rose of Sharon and wild onion.

<b>Unit:</b>	278	<b>Classification</b>	II B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.146745	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/26/2011	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	multiflora rose	<5' & 5-30'	Yes	Exotic planting		Erosion
Deciduous	black locust	<5'- >30'	Yes			
Chamaephytes	Norway maple	<5'- >30'	Yes			
Dry/Moist	black cherry	<5'- >30'	No			
Slope	garlic mustard	<5'	Yes			
	oriental bittersweet	<5'- >30'	Yes			

### **Comments**

This is a woodland along the edge of Chapin Woods by Chapin Ave. The unit is a steep slope facing south. Other species present include asters, goldenrod, poison ivy, oak spp., multiflora rose, oriental bittersweet, Japanese honeysuckle, black locust, Norway maple and garlic mustard.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	279	<b>Classification</b>	II B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.107558	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/26/2011	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	red oak	>30' & 5-30'	No		Foot traffic	Erosion
Deciduous	multiflora rose	<5' & 5-30'	Yes			Trash
Chamaephytes	fox grape	>30' & 5-30'	No			Dumping
Dry/Moist	black birch	<5' - >30'	No			
Slope	black locust	<5' - >30'	Yes			

### **Comments**

This is a woodland that is adjoining a lawn separated by cypress trees. The unit is disturbed by trash and invasive species. Other species present include asters, catbrier, poison ivy, spicebush, sassafras, tulip poplar, red maple, multiflora rose, Japanese honeysuckle and garlic mustard.

<b>Unit:</b>	280	<b>Classification</b>	II B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.088013	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	4/26/2011	Is community structure changing?	No	Encroachment

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	black birch	<5' - >30'	No	Road	Foot traffic	Dumping
Deciduous	black locust	<5' - >30'	Yes	Hedgerow		Trash
Lianas	Japanese honeysuckle	<5' - >30'	Yes			Erosion
Dry/Moist	poison ivy	<5' - >30'	No			
Slope	multiflora rose	<5' & 5-30'	Yes			
	Japanese knotweed	<5' & 5-30'	Yes			

### **Comments**

This is a woodland bordering a lawn. It appears to have been leveled for a driveway. Other species include black cherry, sassafras, hayscented fern, catbrier, spicebush, red maple, Japanese knotweed, Japanese honeysuckle, multiflora rose, Japanese angelica tree and black locust.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	281	<b>Classification</b>	II B2a1	<b>Management Concerns</b>
<b>Acreage</b>	0.041504	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/26/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	Japanese honeysuckle	<5'	Yes	Road	Foot traffic	Erosion
Deciduous	Japanese angelica	<5' & 5-30'	Yes			Trash
Phanerophytes	poison ivy	<5' - >30'	No			
Dry/Moist	sassafras	<5' & 5-30'	No			
Undulating	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a woodland adjacent to a home. It has a tree house built on three oak trees. Other species present include Rubus spp., grasses, spicebush, goldenrod, tulip poplar, Japanese honeysuckle, multiflora rose, wineberry, Japanese angelica tree and wild onion.

<b>Unit:</b>	282	<b>Classification</b>	II B2a1	<b>Management Concerns</b>
<b>Acreage</b>	1.055603	Is species composition changing?	No	Deer Impact
<b>Date:</b>	4/26/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	black birch	<5' - >30'	No		Foot traffic	Trash
Deciduous	red oak	<5' - >30'	No			Other
Phanerophytes	mapleleaf viburnum	<5' & 5-30'	No			
Dry/Moist	black cherry	<5' - >30'	No			
Slope	poison ivy	<5' - >30'	No			
	mayflower	<5'	No			

### **Comments**

This is a closed forest unit consisting of mainly black birch and oaks. Four female deer were spotted nearby. There is a tree house built on a dead oak tree in the unit. Other species include hickory, sassafras, arrowwood, lowbush blueberry, catbrier, red maple, Rubus spp., spicebush, tulip poplar, hayscented fern, goldenrod, white ash, Norway maple and winged euonymus. Environmental disturbance "other" is a treehouse.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	283	<b>Classification</b>	I B2a4	<b>Management Concerns</b>
<b>Acreage</b>	0.13871	Is species composition changing?	No	Encroachment
<b>Date:</b>	4/26/2011	Is community structure changing?	No	Invasive Sp.

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	black locust	<5'- >30'	Yes		Foot traffic	Trash
Deciduous	black birch	<5'- >30'	No			
Geophytes	multiflora rose	<5' & 5-30'	Yes			
Dry/Moist	Japanese knotweed	<5' & 5-30'	Yes			
Slope	aster	<5'	No			
	Norway maple	<5'- >30'	Yes			

### **Comments**

This is a closed forest adjacent to a shed from a neighboring house. Other species present include black cherry, poison ivy, white oak, red maple, red oak, London planetree, Japanese knotweed, multiflora rose and garlic mustard.

<b>Unit:</b>	284	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.066051	Is species composition changing?	No	Encroachment
<b>Date:</b>	4/26/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	forsythia	<5' & 5-30'	Yes	Hedgerow	Foot traffic	Soil compaction
Deciduous	cool season grass	<5'	Yes	Full-crown tree	Other	Erosion
Chamaephytes	sweetgum	<5'- >30'	No	Exotic planting		Other
Moist	aster	<5'	No			
Level	tulip tree	<5'- >30'	No			
	mosses	<5'	No			

### **Comments**

This is a closed forest adjacent to a lawn with swings and a shed. A small stream with a man made pipe culvert exists in the unit. Two chickens were observed in the unit. Other species present include spruce spp. and oak spp.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	285	<b>Classification</b>	I B2a6	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.161838	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/26/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	tulip tree	<5'- >30'	No	Fence		Trash
Deciduous	red oak	>30' & 5-30'	No	Exotic planting		Dumping
Lianas	English ivy	<5'- >30'	Yes			
Dry/Moist	sweetgum	<5'- >30'	No			
Level	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a closed forest adjacent to a fenceline and nearby the Chapin Woods entrance. It is also adjacent to a vineland. Other species present include black cherry, Rubus spp., multiflora rose, Japanese knotweed, Japanese honeysuckle and English ivy.

<b>Unit:</b>	286	<b>Classification</b>	IV A2h	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.091659	Is species composition changing?	No	Encroachment
<b>Date:</b>	4/26/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Herbaceous	cool season grass	<5'	Yes	Fence		Soil compaction
Deciduous	arborvitae	<5' & 5-30'	No	Hedgerow		Other
Geophytes	English ivy	<5' & 5-30'	Yes	Exotic planting		
Dry/Moist						
Level						

### **Comments**

This is an herbaceous unit near Chapin Ave and Salzburg Ct. There is significant encroachment into the park. Both houses use this as their backyard.

# Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

**Unit:** 287 **Classification** I B2a2 **Management Concerns**  
**Acreage** 0.992373 Is species composition changing? No  
**Date:** 4/26/2011 Is community structure changing? No

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	tulip tree	<5'- >30'	No	Exotic planting		Dumping
Deciduous	multiflora rose	<5' & 5-30'	Yes			Trash
Chamaephytes	sweetgum	<5'- >30'	No			
Dry/Moist	black birch	<5'- >30'	No			
Slope	Japanese honeysuckle	<5'- >30'	Yes			
	poison ivy	<5'- >30'	No			

## **Comments**

This is a closed forest unit north of Salzburg Ct. and east of the end of Chapin Ave.

**Unit:** 288 **Classification** I B2a6 **Management Concerns**  
**Acreage** 0.436508 Is species composition changing? No  
**Date:** 4/26/2011 Is community structure changing? No  
 Invasive Sp.

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5'- >30'	No			Trash
Deciduous	black birch	<5'- >30'	No			Other
Lianas	poison ivy	<5'- >30'	No			
Dry/Moist	red maple	<5'- >30'	No			
Slope	Norway maple	<5'- >30'	Yes			
	spicebush	5'-30'	No			

## **Comments**

The unit is a ravine located in the southern arm of the park. There is a deep drop in elevation and recent topping of large trees. Other species present include yew, American beech, fern spp., asters, moss, Canada mayflower, tulip poplar, black cherry, Virginia creeper, pin oak, Hercules club, Japanese barberry, wineberry, multiflora rose, Norway maple, porcelainberry.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	289	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.230743	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	5/31/2011	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	Norway maple	<5'- >30'	Yes			Trash
Deciduous	English ivy	<5'- >30'	Yes			Dumping
Lianas	poison ivy	<5'- >30'	No			
Dry/Moist	oriental bittersweet	>30' & 5-30'	Yes			
Slope	red oak	>30'	No			
	pachysandra	<5'	Yes			

### **Comments**

The unit is in the southern arm of the park and borders homes up on a ridge top. The unit is dominated by invasive vines and trees. Other species include black cherry, black birch, spicebush, Dicentra spp., aster, sweetgum, grape, Virginia creeper, sedges, catbrier, smooth Solomon's seal, multiflora rose, oriental bittersweet, Japanese pachysandra, English ivy, Norway maple, wild onion, orange daylily, daffodils, Japanese knotweed, Japanese angelica-tree and Japanese honeysuckle.

<b>Unit:</b>	290	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.027496	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/31/2011	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No			
Deciduous	black cherry	<5'- >30'	No			
Chamaephytes	multiflora rose	<5' & 5-30'	Yes			
Dry/Moist	poison ivy	<5'- >30'	No			
Undulating	oriental bittersweet	<5' & 5-30'	Yes			

### **Comments**

This is a closed forest located in the southeast section of the park and wedged in between a vineland unit and some residential lots adjacent to the park boundary. Vines are climbing into the unit. Other species present include catbrier, pin oak, Virginia creeper, porcelainberry and Japanese honeysuckle.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	291	<b>Classification</b>	III A1	<b>Management Concerns</b>
<b>Acreage</b>	0.048125	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	6/1/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Scrub	multiflora rose	<5' & 5-30'	Yes			
Deciduous	porcelainberry	<5' & 5-30'	Yes			
Chamaephytes	blackberry	<5'	No			
Dry/Moist	poison ivy	<5'	No			
Depression	oriental bittersweet	<5' & 5-30'	Yes			

### **Comments**

This is a scrubland. Surrounding areas are high in elevation. It is adjacent to a foot trail. The perimeter of the unit is layered with climbing invasive vines. Other species present include asters, pokeweed, spicebush, multiflora rose, porcelainberry, and oriental bittersweet.

<b>Unit:</b>	292	<b>Classification</b>	II B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.456588	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	6/15/2011	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	red oak	>30'	No			Erosion
Deciduous	spicebush	<5' & 5-30'	No			Dumping
Chamaephytes	black birch	<5' & 5-30'	No			Other
Dry/Moist	multiflora rose	<5' & 5-30'	Yes			
Depression	poison ivy	<5' - >30'	No			

### **Comments**

This is a woodland. The unit has some tall trees that were recently topped. The unit is on the steep slope below some homes, in the south area of the park. Currently and throughout the years there has been dumping in the unit. Other species present are Norway maple, pokeweed, asters, sweetgum, black cherry, horse chestnut, hickories, jewelweed, Rubus spp., Virginia creeper, Vitis spp., Multiflora rose, Norway maple, Porcelain berry, Aralia spp., oriental bittersweet, wild onion, mapleleaf viburnum and Japanese honeysuckle. Environmental Disturbance "Other" is tree topping.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	293	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	1.077373	Is species composition changing?	No	
<b>Date:</b>	6/16/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	<5'- >30'	No		Foot traffic	Dumping
Deciduous	black birch	<5'- >30'	No			Trash
Chamaephytes	mapleleaf viburnum	<5' & 5-30'	No			Auto
Dry/Moist	black cherry	<5'- >30'	No			
Slope	poison ivy	<5'- >30'	No			
	sweetgum	<5'- >30'	No			

### **Comments**

This is a closed forest unit in the south part of the park bordering homes. There is dumping at the edge of the park. There is a trail that runs through the unit. The overstory is dominated by red oak and black birch. Other species present include Rubus spp., musclemwood, asters, sassafras, multiflora rose, spicebush, red maple, fern spp., striped wintergreen, Canada Mayflower, grass spp., white oak, Japanese maple, witch hazel, tulip poplar, Azalea spp., catbrier, oriental bittersweet, white pine, white ash, hickory spp., Viburnum spp., sedges, goldenrod, false Solomon's seal, common cinquefoil, moss spp., plantains, pokeweed, jewelweed and Norway maple.

<b>Unit:</b>	294	<b>Classification</b>	I B2a6	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.330249	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	6/16/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	tulip poplar	<5'- >30'	No		Foot traffic	Erosion
Deciduous	Norway maple	<5'- >30'	Yes			Dumping
Lianas	sweetgum	<5'- >30'	No			
Dry/Moist	poison ivy	<5'- >30'	No			
Undulating	oriental bittersweet	<5'- >30'	Yes			
	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a closed forest that surrounds an open vineland. It is in the south part of the park and the trail runs through it. Other species present are bigtooth aspen, black cherry, American beech, yew, northern red oak, sassafras, hickories, Virginia creeper, grass spp., black birch, crabapple, sweet pepperbush, asters, mapleleaf viburnum, goldenrod, Rubus spp., highbush blueberry, flowering dogwood, Vitis spp., Japanese honeysuckle, wisteria, porcelainberry, multiflora rose, oriental bittersweet and Norway maple.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	295	<b>Classification</b>	I B2a1	<b>Management Concerns</b>
<b>Acreage</b>	0.085325	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	6/28/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	>30'	No		Foot traffic	Dumping
Deciduous	sweetgum	<5' - >30'	No		Other	Fire
Phanerophytes	sweet pepperbush	<5' & 5-30'	No			Trash
Dry/Moist	tulip poplar	>30'	No			
Knoll	sassafras	<5' - >30'	No			
	white wood aster	<5'	No			

### **Comments**

This is a closed forest, on top of the knoll, overlooking the south pond of the park. The unit is north of the trail which ends at Chapin Av. There are signs of social gatherings. Other species present are white oak, mapleleaf viburnum, cool season grass, black cherry, chokeberry, goldenrod, poison ivy, blackgum, Japanese stiltgrass, sedges, pin oak, Virginia creeper, blueberry, round-leaf pyrola, oriental bittersweet, porcelainberry and Japanese honeysuckle.

<b>Unit:</b>	296	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	1.08178	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	6/28/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5' - >30'	No		Foot traffic	Erosion
Deciduous	black birch	<5' - >30'	No			
Lianas	sweetgum	<5' - >30'	No			
Dry/Moist	spicebush	<5' & 5-30'	No			
Slope	poison ivy	<5' & >30'	No			
	black cherry	<5' & 5-30'	No			

### **Comments**

This is a closed forest. There is a trail from Chapin Av. that runs through the unit. The unit is bound by two streams, one on the north and one on the south. The unit is in the south part of the park and is west of a pond and east of Annfield Ct. There is some erosion on the uphill part of the unit starting from Annfield Ct. and also along the streams. Other species present include wild sarsaparilla, grass, red maple, highbush blueberry, partridgeberry, mapleleaf viburnum, aster, hickories, catbrier, Virginia creeper, white oak, Japanese maple, yew, American hornbeam, pokeweed, sedges, moss spp., fern spp., tulip poplar, blackberry, Japanese honeysuckle, sycamore maple, Norway maple and multiflora rose.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	297	<b>Classification</b>	VI B2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	1.01627	Is species composition changing?	No	
<b>Date:</b>	6/29/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Aquatic (fresh)	duckweed	<5'	No			Dumping
Deciduous	red maple	>30'	No			Trash
Hydrophytes	sweet pepperbush	<5'	No			
Surface water						
Depression						

### **Comments**

This unit is a pond in the south part of the park, a few hundred feet from the end of Chapin Ave. The following fauna were observed: ducks, a turtle, an egret, an eagle. There is snag habitat at the west part of the pond. Other species present are highbush blueberry and porcelainberry.

<b>Unit:</b>	298	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.08777	Is species composition changing?	No	
<b>Date:</b>	6/29/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red maple	>30'	No			Trash
Deciduous	sweetgum	>30'	No			
Chamaephytes	black birch	>30'	No			
Dry/Moist	highbush blueberry	<5' & 5-30'	No			
Slope	fern spp.	<5'	No			

### **Comments**

This is a closed forest, adjacent to the west side of the pond. Other species include red oak, skunk cabbage, moss, multiflora rose, poison ivy and Canada mayflower.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	299	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	0.21005	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	6/29/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Vineland	porcelainberry	<5'- >30'	Yes			Dumping
Deciduous	multiflora rose	<5' & 5-30'	Yes			Trash
Lianas	jewelweed	<5' & 5-30'	No			
Moist	poison ivy	<5'- >30'	No			
Undulating	black willow	>30' & 5-30'	No			
	catbrier	<5'- >30'	No			

### **Comments**

This unit is a vineland, adjacent to the northwest part of the pond. There are a lot of wetland species in the unit. Other species include skunk cabbage, Virginia creeper, spicebush, sassafras, fern spp., black cherry, false nettle, green ash, highbush blueberry, multiflora rose, porcelainberry and catbrier.

<b>Unit:</b>	300	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.034435	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/6/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	sweetgum	<5'- >30'	No			Trash
Deciduous	black birch	<5'- >30'	No			
Chamaephytes	multiflora rose	<5' & 5-30'	Yes			
Moist	pin oak	>30'	no			
Slope	poison ivy	<5'- >30'	No			
	sassafras	<5' & 5-30'	No			

### **Comments**

This is a closed forest unit that hugs the pond in the south part of the park. The unit is 100 ft south of the Yellow Trail. Part of the unit is wetland in nature. Other species present include Virginia creeper, catbrier, goldenrod spicebush, skunk cabbage, Rumex spp., black oak, elderberry, jewelweed, American beech, swamp loosestrife, sensitive fern, Oriental bittersweet, Japanese barberry, Japanese honeysuckle, garlic mustard, mimosa, multiflora rose and porcelainberry.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	301	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	0.035931	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/6/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	porcelainberry	<5'- >30'	Yes	Foundation	Foot traffic	Dumping
Deciduous	oriental bittersweet	<5'- >30'	Yes	Landfill	Other	Trash
Chamaephytes	fox grape	>30'	No			Vandalism
Dry/Moist	multiflora rose	<5' & 5-30'	Yes			
Slope	poison ivy	<5'- >30'	No			

### **Comments**

This unit is a vineland covering a significant number of tree species. It is adjacent to the north part of the pond and south of the Yellow Trail. There is an old well in the unit. Other current use is social gathering activity and a makeshift fort made of 2-by-4s and tree branches. Other species present include smooth sumac, tulip poplar, sassafras, sweetgum, black cherry, catbrier, Rubus spp., pin oak, red oak, Virginia creeper, path rush, Japanese honeysuckle, porcelainberry, multiflora rose, oriental bittersweet, white mulberry and tree of heaven.

<b>Unit:</b>	302	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.144243	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	7/6/2011	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No	Foundation	Foot traffic	Trash
Deciduous	tree of heaven	<5'- >30'	Yes	Exotic planting		
Chamaephytes	tulip poplar	>30'	No			
Dry/Moist	American elm	>30' & 5-30'	No			
Slope	multiflora rose	<5' & 5-30'	Yes			
	catbrier	<5'- >30'	No			

### **Comments**

This unit is a closed forest, located north of a pond in the southern part of the park. This unit contains the ruins. Other species include black cherry, spicebush, green ash, Virginia creeper, goldenrod, jewelweed, red oak, skunk cabbage, poison ivy, sensitive fern, multiflora rose, Japanese honeysuckle, porcelainberry, oriental bittersweet and tree of heaven.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	303	<b>Classification</b>	II B2a3	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.071499	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/6/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	red maple	>30'	No			Dumping
Deciduous	skunk cabbage	<5'	No			
Hemicryptophytes	Japanese knotweed	<5' & 5-30'	Yes			
Wet	stinging nettle	<5'	No			
Depression	buttercup spp.	<5'	No			
	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This unit is adjacent to the pond, and is east of a trail. The unit is filled with skunk cabbage in the understory and red maple in the canopy. Other species include sweetgum, moss, spicebush, grasses, multiflora rose and Japanese knotweed.

<b>Unit:</b>	304	<b>Classification</b>	I B2a3	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.333021	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/14/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	sweetgum	>30'	No			Dumping
Deciduous	red maple	>30' & 5-30'	No			Trash
Hemicryptophytes	green ash	<5' - >30'	No			Erosion
Dry/Moist	multiflora rose	<5' & 5-30'	Yes			
Slope	skunk cabbage	<5'	No			
	spicebush	<5' & 5-30'	No			

### **Comments**

This is a closed forest located in the south part of the park between the Yellow Trail and the park boundary about 200 feet northwest of Ridge Loop. There is a stream that runs into this unit and dries up here. Other species present include red oak, moss, poison ivy, black cherry, ferns, asters, American elm, smartweed, black birch, sassafras, catbrier, warm and cool season grasses, arrowwood, white oak, jewelweed, Virginia creeper, goldenrod, black willow, multiflora rose, Japanese honeysuckle, Japanese stiltgrass, oriental bittersweet, Japanese barberry and garlic mustard.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	305	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	1.052101	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/14/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	sweetgum	<5'- >30'	No			Dumping
Deciduous	tulip poplar	<5'- >30'	No			Trash
Chamaephytes	black oak	>30'	No			
Dry/Moist	spicebush	<5' & 5-30'	No			
Slope	catbrier	<5'- >30'	No			
	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a closed forest located in the south part of the park. The unit is south of a vineland and borders the eastern park boundary. The unit is heavily dominated by sweetgum with some vines in the understory. Other species present include black birch, Virginia creeper, red oak, arrowwood, black cherry, white oak, poison ivy, red maple, highbush blueberry, wild strawberry, sassafras, multiflora rose, catbrier, oriental bittersweet, Japanese honeysuckle and Norway maple.

<b>Unit:</b>	306	<b>Classification</b>	II B2a4	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.042466	Is species composition changing?	No	Encroachment
<b>Date:</b>	7/19/2011	Is community structure changing?	No	Invasive Sp.

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	red oak	>30'	No		Other	Other
Deciduous	black cherry	<5' & 5-30'	No			
Geophytes	sweetgum	>30' & 5-30'	No			
Dry/Moist	cool season grass	<5'	Yes			
Level						

### **Comments**

This unit is a woodland which is the front lawn of 60 Ridge Loop. From the map it looks as if the property owner has encroached upon the park. Current use "other" is front lawn to private home. Environmental disturbance "other" is boundary discrepancy. Other species include Japanese pachysandra, poison ivy, clovers, common dandelion, smartweed and oriental bittersweet.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	307	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.399007	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	7/19/2011	Is community structure changing?	No	Encroachment

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No	Exotic planting	Foot traffic	Trash
Deciduous	black cherry	<5' & 5-30'	No			Dumping
Lianas	red oak	>30'	No			Other
Dry/Moist	poison ivy	<5'- >30'	No			
Slope	oriental bittersweet	<5'- >30'	Yes			
	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a closed forest located at the corner of Ridge Loop. It is dominated by sweetgum in the canopy. Part of 90 Ridge Loop encroaches into the unit. Other species include pokeweed, Virginia creeper, deertongue, goldenrod, Japanese maple, oriental bittersweet, porcelainberry, English ivy, mugwort, Japanese pachysandra, Japanese angelica tree, Japanese knotweed, Japanese honeysuckle, winged euonymus, multiflora rose, bittersweet nightshade and smartweed.

<b>Unit:</b>	308	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	0.615689	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	7/19/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	porcelainberry	<5'- >30'	Yes	Foundation	Foot traffic	Trash
Deciduous	poison ivy	<5'- >30'	No			Trash
Lianas	spicebush	<5' & 5-30'	No			Trash
Dry/Moist	oriental bittersweet	<5'- >30'	Yes			
Slope	English ivy	<5'- >30'	Yes			
	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a vineland that is located west of a pond and southeast of the Yellow Trail. A large social gathering area 100 feet northwest of the unit. There is a large American elm in the unit. Other species present are sassafras, red maple, black cherry, catbrier, red oak, ferns, Japanese holly, multiflora rose, porcelainberry, oriental bittersweet, winged euonymus, English ivy, tree of heaven and dodder.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	309	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.224814	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	7/20/2011	Is community structure changing?	Yes	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	sweetgum	<5'- >30'	No		Foot traffic	Erosion
Deciduous	black cherry	<5'- >30'	No			Trash
Chamaephytes	red oak	>30'	No			
Dry/Moist	red maple	<5'- >30'	No			
Slope	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This is a closed forest located approximately 200 feet from the intersection of Ridge Loop and Old Farmers Ln. in the eastern part of the park. It is surrounded by vineland units and the northern boundary is about 20 feet south of a pond. Other species include American elm, spicebush, sassafras, yew, poison ivy, catbrier, white oak, European birch, pokeweed, oriental bittersweet, English ivy, multiflora rose, porcelainberry, Japanese honeysuckle, tree of heaven, mugwort, garlic mustard and white mulberry.

<b>Unit:</b>	310	<b>Classification</b>	VIII C	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.135169	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/20/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Vineland	porcelainberry	<5'- >30'	Yes	Foundation	Foot traffic	Trash
Deciduous	poison ivy	<5'- >30'	No	Road		Auto
Lianas	oriental bittersweet	<5'- >30'	Yes			Vandalism
Dry/Moist	Japanese honeysuckle	<5'- >30'	Yes			
Slope	sassafras	<5' & 5-30'	No			
	Japanese angelica	<5' & 5-30'	Yes			

### **Comments**

This is a vineland unit in the eastern part of the park approximately 200 feet from Ridge Loop and Old Farmers Ln. There are historical foundations within the unit and indication of an old road. A desire line runs through the unit. Other species include ferns, pokeweed, America beech, spicebush, sweetgum, black cherry, Virginia creeper, grasses, Vitis spp., Rubus spp., catbrier, smartweed, porcelainberry, oriental bittersweet, mugwort, Japanese angelica tree, multiflora rose, Japanese honeysuckle, garlic mustard, wineberry, English ivy and orange daylily.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	311	<b>Classification</b>	VIII B	<b>Management Concerns</b>
<b>Acreage</b>	0.450648	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/20/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	porcelainberry	<5'- >30'	Yes			Trash
Deciduous	oriental bittersweet	<5'- >30'	Yes			Dumping
Lianas	Japanese honeysuckle	<5'- >30'	Yes			
Dry	multiflora rose	<5' & 5-30'	Yes			
Knoll						

### **Comments**

This unit is a vineland on top of a knoll in the eastern part of the park and approximately 200 feet from Ridge Loop and Old Farmers Ln. The unit is mostly dominated by porcelainberry and there is dumping within the unit. Other species present include lettuce spp., sassafras, poison ivy, trumpetweed, sweet cicely, English ivy, oriental bittersweet, multiflora rose, Japanese honeysuckle, Japanese angelica tree, garlic mustard and loosestrife spp.

<b>Unit:</b>	312	<b>Classification</b>	II B2a4	<b>Management Concerns</b>
<b>Acreage</b>	0.04581	Is species composition changing?	No	Encroachment
<b>Date:</b>	7/26/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	sweetgum	<5' & >30'	No	Hedgerow	Foot traffic	Other
Deciduous	white pine	>30'	No	Full-crown tree	Other	
Geophytes	red maple	>30'	No	Exotic planting		
Dry/Moist	cool season grass	<5'	Yes			
Level	Japanese barberry	<5'	Yes			

### **Comments**

This unit is a woodland located on Ridge Loop and adjacent to a wetland in the east section of the park. Most of the unit is landscaped with a lawn. Other species include Hydrangea spp., purple leaf plum, kousa dogwood, pine spp., juniper spp., weeping Norway spruce, arrowwood, yew, witch hazel, cherry spp., black eyed Susan, poison ivy and moss. Current Use "Other" is front yard use. Environmental disturbance "Other" is lawn.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	313	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.089048	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/26/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No	Fence		Trash
Deciduous	red maple	<5'- >30'	No			Dumping
Phanerophytes	pussy willow	>30' & 5-30'	No			Erosion
Dry/Moist	sassafras	<5'- >30'	No			
Level	catbrier	<5'- >30'	No			

### **Comments**

This unit is a closed forest located west of a pond in the east part of the park. There are several downed logs and wood debris in the unit. Other species include pokeweed, American elm, poison ivy, Virginia creeper, white oak, red oak, jewelweed, black cherry, grape spp., tulip poplar, gray birch, catbrier, porcelainberry, multiflora rose, oriental bittersweet, Japanese knotweed and Japanese angelica tree.

<b>Unit:</b>	314	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.102948	Is species composition changing?	No	Encroachment
<b>Date:</b>	7/26/2011	Is community structure changing?	No	Invasive Sp.

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No	Fence		Trash
Deciduous	red maple	<5'- >30'	No	Hedgerow		Dumping
Phanerophytes	black cherry	<5'- >30'	No			
Dry/Moist	catbrier	<5'- >30'	No			
Slope	Japanese knotweed	<5' & 5-30'	Yes			

### **Comments**

This unit is a closed forest located southwest of a pond and in the eastern part of the park. It is also located behind a house on Ridge Loop. According to crew map part of 75 Ridge Loop falls within the unit. Other species include Alberta spruce, American pokeweed, jewelweed, poison ivy, American beech, yew, cool season grasses, tulip poplar, American elm, black oak, spicebush, Canada mayflower, hazelnut spp., black birch, cherry spp., sassafras, New York fern, red chokeberry, Japanese angelica tree, multiflora rose, Japanese knotweed, English ivy and bittersweet nightshade.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	315	<b>Classification</b>	III B1e	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.779773	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/26/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Aquatic (fresh)	buttonbush	<5' & 5-30'	No			Trash
Deciduous	swamp loosestrife	<5' & 5-30'	No			
Chamaephytes	algae	<5'	No			
Surface water	porcelainberry	<5' & 5-30'	Yes			
Depression						

### **Comments**

This unit is a pond located in the eastern part of the park almost next to Ridge loop. Buttonbush dominates the center of the unit. Wildlife was noted including Heron, and possible toads or frogs chirping and skipping across the water. Also a large amount of dragonflies, including whitetail skimmer. Other species include jewelweed, nettle spp., pussy willow, oriental bittersweet and porcelainberry.

<b>Unit:</b>	316	<b>Classification</b>	IV A3a6	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.022302	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/27/2011	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Herbaceous	cool season grass	<5'	Yes	Road	Foot traffic	Trash
Deciduous	Japanese knotweed	<5'	Yes	Exotic planting		Soil compaction
Geophytes	garlic mustard	<5'	Yes	Full-crown tree		
Dry	Colorado blue spruce	5'-30'	Yes			
Level						

### **Comments**

This unit is a landscaped area at the end of Francis Pl. and Forest Rd. where the Yellow Trail begins. It looks like both roads connected at this spot at one time. There is a guardrail in the unit. Other species include boxwood, Yucca spp., juniper spp., sweetgum, arborvitae, common dandelion, common plantain, forsythia, Japanese barberry, butterfly bush, multiflora rose, euonymus spp. and English ivy.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	317	<b>Classification</b>	II B2a4	<b>Management Concerns</b>
<b>Acreage</b>	0.192128	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/27/2011	Is community structure changing?	No	Encroachment

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	silver maple	>30'	No	Fence	Other	Other
Deciduous	white pine	>30'	No	Exotic planting		
Geophytes	cool season grass	<5'	Yes	Full-crown tree		
Dry/Moist	Norway maple	>30'	Yes			
Slope	Japanese maple	5'-30'	Yes			

### **Comments**

This is a woodland that falls into part of the private property at 501 Forest Rd. The crew map indicates that this unit is in parkland property. A deck and backyard are part of the unit. Other species include grape spp., sweetgum, poison ivy, black cherry, Virginia creeper, catbrier, blue atlas cedar, sassafras, goldenrod, tulip poplar, forsythia, English ivy, Japanese angelica tree, Japanese honeysuckle, oriental bittersweet, tree of heaven, multiflora rose and smartweed. Current use "other" is backyard. Environmental disturbance "other" is encroachment.

<b>Unit:</b>	318	<b>Classification</b>	IV A2h	<b>Management Concerns</b>
<b>Acreage</b>	0.018395	Is species composition changing?	No	Encroachment
<b>Date:</b>	7/28/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Herbaceous	cool season grass	<5'	Yes	Hedgerow	Other	
Evergreen	arborvitae	5'-30'	No			
Geophytes						
Dry/Moist						
Slope						

### **Comments**

This is an herbaceous unit that is the front lawn of a home on 107 Emerson Ct. According to the crew maps this unit falls within park boundaries. Current Use "Other" is front lawn. Other species include common dandelion.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	319	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.090618	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/28/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	Norway maple	<5'- >30'	Yes	Hedgerow		Dumping
Deciduous	Ailanthus	<5'- >30'	Yes	Exotic planting		Trash
Lianas	black cherry	<5'- >30'	No			
Dry/Moist	Japanese honeysuckle	<5'- >30'	Yes			
Slope	English ivy	<5'- >30'	Yes			
	garlic mustard	<5'	Yes			

### **Comments**

This unit is a closed forest consisting of primarily Norway maple. It is located between two homes on Emerson Ct. Throughout the years there seems to have been a lot of dumping within the unit. Other species present include tulip poplar, American pokeweed, honeylocust, rose of Sharon, English ivy, multiflora rose, Japanese honeysuckle, porcelainberry, tree of heaven, garlic mustard, bush honeysuckle, winged euonymus and white mulberry.

<b>Unit:</b>	320	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	1.619417	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	7/28/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	porcelainberry	<5'- >30'	Yes		Foot traffic	Trash
Deciduous	Japanese honeysuckle	<5'- >30'	Yes		Other	Dumping
Lianas	catbrier	<5'- >30'	Yes			
Dry/Moist	multiflora rose	<5' & 5-30'	Yes			
Slope	tree of heaven	<5'- >30'	Yes			
	blackberry	<5' & 5-30'	No			

### **Comments**

This unit is a vineland located in the northeast arm of the park between Ocean Terrace and Emerson Court. The unit has a steep slope to the east where there is a great view of Brooklyn and the Verrazano Bridge. The unit is dominated by porcelainberry and has some tall trees scattered throughout, especially tree of heaven. Other species present are yew, red maple, red oak, sweetgum, grape spp., tulip poplar, poison ivy, spicebush, American pokeweed, black cherry, arrowwood, boxelder, bindweed, multiflora rose, porcelainberry, oriental bittersweet, garlic mustard and English ivy.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	321	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.550121	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	8/2/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5' - >30'	No			Dumping
Deciduous	red oak	<5' - >30'	No			Trash
Chamaephytes	black cherry	<5' - >30'	No			
Dry/Moist	multiflora rose	<5' & 5-30'	Yes			
Slope	catbrier	<5' - >30'	No			
	Norway maple	<5' - >30'	Yes			

### **Comments**

This unit is a closed forest located in the northeast arm of the park. The unit is adjacent to some houses and shares a small boundary with Coverly Av. This unit is at the top of the park, very steep, and prone to dumping from the road above. Other species are Virginia creeper, cherry spp., spicebush, American beech, deertongue, sassafras, American pokeweed, poison ivy, tulip poplar, red maple, hickory species, arrowwood, Rubus spp., Vitis spp., English ivy, multiflora rose, Japanese honeysuckle, black locust, oriental bittersweet, Norway maple, Japanese angelica tree, porcelainberry, Japanese barberry, tree of heaven and garlic mustard.

<b>Unit:</b>	322	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	0.276163	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	8/2/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	porcelainberry	<5' - >30'	Yes			Dumping
Deciduous	Japanese honeysuckle	<5' - >30'	Yes			Trash
Lianas	Japanese knotweed	<5' & 5-30'	Yes			
Dry/Moist	multiflora rose	<5' - >30'	Yes			
Slope	English ivy	<5' - >30'	Yes			
	catbrier	<5' - >30'	No			

### **Comments**

This unit is a vineland dominated by porcelainberry. The unit is located in the northeast arm of the park behind 528 Ocean Terr. and adjacent to Oceanview Ln. Other species include sweetgum, red oak, American pokeweed, black cherry, Eastern red cedar, multiflora rose, Japanese angelica tree, oriental bittersweet, Japanese honeysuckle, Japanese knotweed and Japanese pachysandra.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	323	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.347522	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	8/2/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No			Trash
Deciduous	Japanese angelica	<5'- >30'	Yes			Dumping
Chamaephytes	tree of heaven	<5'- >30'	Yes			
Dry/Moist	multiflora rose	<5'- >30'	Yes			
Slope	red oak	<5'- >30'	No			

### **Comments**

This unit is a closed forest located in the northeast arm of the park, behind 560 Ocean Terr. Other species include Virginia creeper, American beech, deertongue, American pokeweed, poison ivy, arrowwood, tulip poplar, red maple, Rubus spp., Vitis spp., English ivy, multiflora rose, Japanese honeysuckle, oriental bittersweet, Norway maple, porcelainberry, garlic mustard and Japanese knotweed.

<b>Unit:</b>	324	<b>Classification</b>	I B2a1	<b>Management Concerns</b>
<b>Acreage</b>	0.832172	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	8/2/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No			Trash
Deciduous	red oak	<5'- >30'	No			
Phanerophytes	tulip poplar	<5'- >30'	No			Dumping
Dry/Moist	Norway maple	<5'- >30'	Yes			
Slope	spicebush	<5' & 5-30'	No			
	multiflora rose	<5'- >30'	Yes			

### **Comments**

This unit is a closed forest in the northeast arm of the park. It is behind 10 Oceanview Ln. Other species are river birch, Virginia creeper, Cherry spp., spicebush, American beech, deertongue, sassafras, American pokeweed, poison ivy, hickory spp., arrowwood, Rubus spp., Vitis spp., black cherry, yew, black oak, American elm, English ivy, black locust, multiflora rose, Japanese honeysuckle, oriental bittersweet, Norway maple, Japanese angelica tree, porcelainberry, tree of heaven, garlic mustard and Japanese knotweed.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	325	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	4.918618	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	8/4/2011	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5'- >30'	No		Foot traffic	Trash
Deciduous	black oak	<5'- >30'	No			
Lianas	white oak	<5'- >30'	No			
Dry/Moist	catbrier	<5' & 5-30'	No			
Slope	sassafras	<5'	No			
	highbush blueberry	<5' & 5-30'	No			

### **Comments**

This unit is a closed forest located in the northeast part of the park. The unit takes a steep decline from 300 feet elevation above, down to the beginning of the Yellow Trail at 190 feet elevation. The Yellow Trail traverses the south part of the unit. This unit is dominated by oaks with areas of catbrier or mapleleaf viburnum in the understory. Other species are black cherry, blackgum, American beech, hickory spp., muscledwood, American elm, blackhaw, American pokeweed, flowering dogwood, Rubus spp., blueberry spp., bush honeysuckle, striped wintergreen, fern spp., deertongue, river birch, Virginia knotweed, Virginia creeper, warm season grasses, plantain spp., poison ivy, red maple, swamp white oak, tulip poplar, garlic mustard, English ivy, goldenrod, Vitis spp., green ash, arrowwood, common hackberry, oriental bittersweet, pinxter bloom azalea, porcelainberry, smartweed, tree of heaven, Japanese angelica tree and black locust.

<b>Unit:</b>	326	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.712763	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	8/4/2011	Is community structure changing?	No	Encroachment

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	sweetgum	<5'- >30'	No			Dumping
Deciduous	red oak	<5'- >30'	No			Trash
Lianas	American beech	<5'- >30'	No			
Dry/Moist	hickory spp.	<5'- >30'	No			
Slope	catbrier	<5' & 5-30'	No			
	highbush blueberry	<5' & 5-30'	No			

### **Comments**

This unit is a closed forest. It is in the northeast area of the park adjacent to the homes on Oceanview Ln. The unit starts above a bowl like depression and ends halfway down the depression. Sweetgum and northern red oak dominate the canopy, catbrier and mapleleaf viburnum dominate the understory. There is also a shack in the unit. Other species present include white oak, muscledwood, poison ivy, black cherry, blueberry spp., fern spp., sassafras, yew, red maple, forsythia, black oak, Rubus spp., river birch, Japanese angelica tree, oriental bittersweet, Vitis spp., English ivy, periwinkle, Japanese pachysandra, garlic mustard and multiflora rose.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	327	<b>Classification</b>	II B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.213653	Is species composition changing?		Invasive Sp.
<b>Date:</b>	5/14/2012	Is community structure changing?		

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	Japanese angelica	<5' & 5-30'	Yes			
Deciduous	garlic mustard	<5'	Yes			
Chamaephytes	catbrier	<5'	No			
Moist	multiflora rose	<5'	Yes			
Slope						

### **Comments**

This unit is a woodland just southeast of Ocean Terr. in the northeast corner of the park. The unit starts at the top of a steep slope and continues down the slope. There are a few canopy trees (sweetgum, black oak) but primarily Japanese angelica tree dominates. The understory is predominantly vines & invasive herbs, other species include Rubus spp., poison ivy, Japanese honeysuckle, multiflora rose, Virginia creeper, red maple and black cherry.

<b>Unit:</b>	328	<b>Classification</b>	II B2a6	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.430605	Is species composition changing?	No	Encroachment
<b>Date:</b>	5/7/2012	Is community structure changing?	Yes	Deer Impact

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	catbrier	<5'	No			Erosion
Deciduous	wild sarsaparilla	<5'	No			
Lianas	Japanese honeysuckle	<5'	Yes			
Moist	multiflora rose	<5'	Yes			
Undulating	garlic mustard	>30'	Yes			
	sweetgum	<5' - >30'	No			

### **Comments**

This is an edge unit that is a woodland. Mostly invasive vines in the understory perhaps causing the community structure to shift to a vineland in the future. Other species include English ivy, mapleleaf viburnum, poison ivy, highbush blueberry, Japanese maple, spicebush, asters, Rubus spp., Virginia creeper, Japanese barberry, Japanese knotweed, long-styled sweet cicely and some black cherry regeneration. Other canopy species include American beech, Japanese angelica tree, black birch, black cherry, white oak, red oak, sassafras, American hophornbeam, mockernut hickory, Norway maple and tulip poplar.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	329	<b>Classification</b>	III B1b	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.840009	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Riparian Buffer	multiflora rose	<5'	Yes			Erosion
Deciduous	trout lily	<5'	No			Trash
Hemicryptophytes	skunk cabbage	<5'	No			
Surface water	spicebush	<5' & 5-30'	No			
Slope	mayflower	<5'	No			

### **Comments**

This is a stream. It runs from northwest to southeast of the park and starts from a Phragmites unit. Stream banks are eroding and the southern portion contains a lot of multiflora rose. It has one major tributary on its northwestern slope. It splits into two streams toward the southern end. Other species present include black birch, jewelweed, Japanese honeysuckle, poison ivy, mapleleaf viburnum, English Ivy, violets, cool season grasses, garlic mustard, red maple, Japanese barberry, beaked hazelnut and oak spp. The stream has cobble as the dominant bed material, has a moderate entrenchment ratio, a moderate width/depth ratio, low sinuosity and is categorized as a B-3 stream by the Rosgen classification system.

<b>Unit:</b>	330	<b>Classification</b>	III B1d	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.206799	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Scrub	multiflora rose	<5'	Yes			Erosion
Deciduous	skunk cabbage	<5'	No			Trash
Chamaephytes	jewelweed	<5'	Yes			
Dry	garlic mustard	<5'	Yes			
Slope	cool season grass	<5'	No			

### **Comments**

This is a scrubland that is in-between two streams. Several fallen trees are in the area. Other species are violet, mugwort, silky dogwood, Japanese honeysuckle, poison ivy, catbrier, Vitis spp., oriental bittersweet, American pokeweed, spicebush, red oak, trout lily, white snake root, goldenrod, wild onion, fern spp., crabapple and red maple.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	331	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.080566	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	multiflora rose	<5'	Yes			Trash
Deciduous	spicebush	5'-30'	No			
Chamaephytes	ash spp.	>30'	No			
Wet	garlic mustard	<5'	Yes			
Slope	trout lily	<5'	No			
	red maple	>30'				

### **Comments**

This is a closed forest between two streams. Forest floor is covered in trout lily. Southern area has a few vines climbing up to the canopy. Other species include catbrier, skunk cabbage, red oak, Japanese honeysuckle, oriental bittersweet, grape spp., American elm, poison ivy and silky dogwood.

<b>Unit:</b>	332	<b>Classification</b>	IV A1a2	<b>Management Concerns</b>
<b>Acreage</b>	0.435842	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Aquatic (fresh)	Phragmites	<5' & 5-30'	Yes			
Deciduous	jewelweed	<5'	Yes			
Geophytes						
Surface water						
Depression						

### **Comments**

This is a large Phragmites unit at the west end of the park. There is standing water throughout. There is some skunk cabbage mixed in along the edges and a large patch of multiflora rose in the middle. Other species present are highbush blueberry, burdock spp. and elderberry.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	333	<b>Classification</b>	III B1b	<b>Management Concerns</b>
<b>Acreage</b>	0.025056	Is species composition changing?	No	Deer Impact
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Scrub	multiflora rose	<5' & 5-30'	Yes			Dumping
Deciduous	garlic mustard	<5'	Yes			
Chamaephytes						
Wet						
Depression						

### **Comments**

This is a small scrubland on the eastern border of the Phragmites unit. There are a few mature elderberry shrubs and a couple pussy willow trees; one of which has some evidence of deer rub. There is also a downed red maple across the unit. Other species present are Phragmites, catbrier, jewelweed, burdock spp., skunk cabbage, red maple, cool season grasses, Japanese barberry, oriental bittersweet, Rubus spp., fern spp. and poison ivy.

<b>Unit:</b>	334	<b>Classification</b>	IV B1c	<b>Management Concerns</b>
<b>Acreage</b>	0.087626	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	multiflora rose	<5'	Yes			Dumping
Deciduous	garlic mustard	<5'	Yes			
Hemicryptophytes	Japanese honeysuckle	<5'	Yes			
Moist	porcelainberry	<5'	Yes			
Depression	Japanese knotweed	<5' & 5-30'	Yes			

### **Comments**

This is a young vineland unit on the north and western border of the Phragmites unit, but still part of the depression. There are a few tires dumped in the unit. There is one lone green ash on the western edge. Other species present include mugwort, mapleleaf viburnum, Phragmites, cool season grasses, lesser celandine, skunk cabbage, daffodil and Japanese angelica tree.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	335	<b>Classification</b>	IV B1a	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.242003	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/13/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Riparian Buffer	multiflora rose	<5' & 5-30'	Yes			Dumping
Deciduous	Japanese knotweed	<5' & 5-30'	Yes			Trash
Chamaephytes						Erosion
Surface water						
Slope						

### **Comments**

This is a gully/stream starting at the north western edge of the park, near Wooddale Avenue. It starts up high near the subdivision and descends steeply, west to east, to the herbaceous unit that borders the Phragmites. The banks are eroding. Other species present include garlic mustard, Vitis spp., skunk cabbage, Japanese angelica tree and Rubus spp. The stream has cobble as the dominant bed material, has a high entrenchment ratio, a low width/depth ratio, low sinuosity and is categorized as an A-3 stream by the Rosgen classification system.

<b>Unit:</b>	336	<b>Classification</b>	IV A1d	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.175202	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/20/2012	Is community structure changing?	No	Encroachment

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Herbaceous	Japanese knotweed	<5'	Yes			Dumping
Deciduous	multiflora rose	<5'	Yes			Trash
Hemicryptophytes	garlic mustard	<5'	Yes			Erosion
Dry	oriental bittersweet	<5' & 5-30'	Yes			
Slope						

### **Comments**

This unit is an island between two drainage ditches. It starts at Wooddale Avenue and descends toward the Phragmites unit, but does not extend the length of the drainage ditch. The edges are eroding into the stream. It is mostly herbaceous invasives, but there are a few canopy trees such as black birch, red oak, red and sugar maple, black cherry, sweetgum and American elm. Other species present are spicebush, Japanese angelica tree, Virginia creeper, aster spp. and grape spp.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	337	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	1.421797	Is species composition changing?	No	Deer Impact
<b>Date:</b>	4/20/2012	Is community structure changing?	No	Ecol. Interact/Ref. Site

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	mapleleaf viburnum	<5' & 5-30'	No			Dumping
Deciduous	highbush blueberry	<5' & 5-30'	No			Trash
Chamaephytes	black cherry	<5' & 5-30'	No			Erosion
Moist	red oak	>30'	No			
Slope	black birch	>30' & 5-30'	No			
	sweetgum	>30'	No			

### **Comments**

This unit is a closed forest consisting of primarily red oak and black birch. There are also several red maples and sweetgums. The unit runs from the herbaceous unit at Wooddale Ave east to the Phragmites unit. Other species present include spicebush, oriental bittersweet, garlic mustard, Japanese maple, multiflora rose, musclewood, Rubus spp., asters, poison ivy, Virginia creeper, catbrier, Solomon's seal, Japanese knotweed, American beech, Canada mayflower, round-leaf pyrola, white oak, Northern lady fern, New York fern and pinxter bloom azalea.

<b>Unit:</b>	338	<b>Classification</b>	II B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.730781	Is species composition changing?	No	Deer Impact
<b>Date:</b>	4/20/2012	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	multiflora rose	<5' & 5-30'	Yes			
Deciduous	spicebush	<5' & 5-30'	No			
Chamaephytes	catbrier	<5'	No			
Dry	Japanese honeysuckle	<5'	Yes			
Slope	red oak	>30'	No			
	white oak	>30'	No			

### **Comments**

This unit is a woodland northwest of the Phragmites unit and north of the drainage ditch. Dominant canopy species include red oak, white oak, red maple and black birch. Other canopy species present are sweetgum and tulip poplar. The vegetation under fifteen feet is mostly scrub and vines. This unit could be shifting into a vineland. Other species present are asters, Rubus spp., Virginia creeper, cool season grasses, jewelweed, black cherry, grape spp., oriental bittersweet, cleavers, mapleleaf viburnum, poison ivy, mugwort and Northern lady fern. There is significant deer rub on many trees as well as an active game trail through the unit.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	339	<b>Classification</b>	II B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.589669	Is species composition changing?	No	Deer Impact
<b>Date:</b>	4/20/2012	Is community structure changing?	No	Herbivory

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	spicebush	<5' & 5-30'	No			Dumping
Deciduous	multiflora rose	<5'	Yes			Trash
Chamaephytes	garlic mustard	<5'	Yes			
Dry	English ivy	<5'- >30'	Yes			
Slope	jewelweed	<5'	No			
	red oak	>30'	No			

### **Comments**

This is a woodland that runs from Wooddale Ave. east. It is just north of the drainage ditch and borders private property. Dominant canopy species are red oak, sweetgum, black birch and tulip poplar. Other trees present but not dominant include red maple, scarlet oak, hickory spp. and white oak. Vegetation under fifteen feet is shrubby, dominated by spicebush. Other species present are poison ivy, Virginia creeper, mapleleaf viburnum, witch hazel, black cherry, Northern lady fern, cinnamon fern, Japanese knotweed, wild onion, Japanese honeysuckle and smooth blackhaw. There is significant deer impact throughout the unit.

<b>Unit:</b>	340	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	0.343823	Is species composition changing?	No	
<b>Date:</b>	4/25/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	catbrier	<5'- >30'	No			
Deciduous	red oak	>30'	No			
Lianas						
Moist						
Slope						

### **Comments**

This is a vineland that starts along the property line on the north/northwest end of the park. It descends down a steep slope to a game trail/desire line. It is predominantly catbrier. Other species include sassafras, red maple, spicebush, black cherry, mapleleaf viburnum, Japanese honeysuckle, poison ivy, cinnamon fern, aster, lesser celandine, black locust, garlic mustard, sweetgum, Virginia creeper, bedstraw, jewelweed, cool season grasses, oriental bittersweet, Canada mayflower and Solomon's seal.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	341	<b>Classification</b>	II B2a2	<b>Management Concerns</b>
<b>Acres:</b>	0.529274	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/25/2012	Is community structure changing?	Yes	Deer Impact Herbivory

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	black locust	>30'	Yes			Dumping
Deciduous	spicebush	<5' & 5-30'	No			
Chamaephytes	catbrier	<5'	No			
Moist	lesser celandine	<5'	Yes			
Slope	Japanese honeysuckle	<5'	Yes			

### **Comments**

This unit is a woodland dominated by black locust. It borders the property line near Ocean Terr. and is north of the Phragmites unit. It is likely transforming into a vineland. Other species present include hickory spp., violet, New York fern, red oak, cherry spp., scarlet oak, aster, garlic mustard, poison ivy, Solomon's seal, Japanese honeysuckle, mapleleaf viburnum, sassafras, Rubus spp., multiflora rose, Japanese angelica, tree of heaven, wild onion, cool season grass, black birch, red maple, black cherry and Japanese maple. There is a very large Japanese knotweed unit to the north, just out of parks property, but could easily spread into this unit. The multiflora rose is significantly discolored.

<b>Unit:</b>	342	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acres:</b>	0.136167	Is species composition changing?	No	Deer Impact
<b>Date:</b>	4/25/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	black birch	>30'	No	Road		
Deciduous	multiflora rose	<5' & 5-30'	Yes			
Chamaephytes	Japanese honeysuckle	<5'	Yes			
Moist	garlic mustard	<5'	Yes			
Undulating	spicebush	<5' & 5-30'	No			

### **Comments**

This unit is a closed forest just north of the Phragmites unit. It appears to be an old road bed. Black birch dominates the canopy with multiflora rose dominant in the understory. The rose is seriously affected by both herbivory or cutting and either an herbicide or a disease. Other species present include sweetgum, Virginia knotweed, viburnum spp., mapleleaf viburnum, oriental bittersweet, Vitis spp., black cherry, sassafras, poison ivy, cool season grass, catbrier, Japanese angelica tree, tree of heaven, Virginia creeper, violets, aster, Japanese maple, tulip tree and black locust. Within this unit, there is a strip of American beech, red oak and scarlet oak on the northwest edge that borders the locust unit. There is significant deer impact.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	343	<b>Classification</b>	II B2a6	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.098373	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/25/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	red oak	>30'	No			
Deciduous	red maple	<5' & >30'	No			
Lianas	multiflora rose	<5'	Yes			
Dry	catbrier	<5'	No			
Slope	spicebush	<5' & 5-30'	No			

### **Comments**

This unit is a woodland that borders the Phragmites unit. It is diverse. There is quite a bit of catbrier, and multiflora rose in the understory. Tree species include white oak, bitternut hickory, red maple, black locust, American beech and black oak. Other species include garlic mustard, Canada mayflower, poison ivy, aster, violets, cool season grass, Virginia creeper, black cherry, oriental bittersweet, Japanese honeysuckle, Vitis spp., mapleleaf viburnum, European spindletree and Japanese angelica tree.

<b>Unit:</b>	344	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.104871	Is species composition changing?	No	
<b>Date:</b>	4/25/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	>30'	No			Erosion
Deciduous	black birch	>30'	No			Dumping
Chamaephytes	spicebush	<5' & 5-30'	No			Trash
Moist	mapleleaf viburnum	<5' & 5-30'	No			
Slope	American beech	>30' & 5-30'	No			

### **Comments**

This unit is a small closed forest unit between the nice oak/birch forest and the gully. It is a slope leading into a depression. Other species include tulip poplar, black cherry, pinxter bloom azalea, wild sarsaparilla, roundleaf pyrola, Canada mayflower, asters, Japanese maple, red maple, Japanese barberry, sassafras, highbush blueberry, Northern lady fern, cool season grasses and poison ivy.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	345	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.046274	Is species composition changing?	No	Other
<b>Date:</b>	4/25/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Riparian Buffer	red oak	>30'	No			Erosion
Deciduous	black birch	>30'	No			Dumping
Chamaephytes						Trash
Moist						
Slope						

### **Comments**

This is a gullied out stream with an oak canopy. It runs from Merrick Ave, north into the Phragmites unit. Vegetation below fifteen feet is extremely minimal; mostly boulders cover the ground. Other species present include shagbark hickory, black oak, Japanese knotweed, highbush blueberry, multiflora rose, Norway maple, mapleleaf viburnum, aster, Virginia creeper, cinnamon fern, Northern lady fern, poison ivy and cherry spp. The stream has boulder as the dominant bed material, has a high entrenchment ratio, a low width/depth ratio, low sinuosity and is categorized as an A-2 stream by the Rosgen classification system.

<b>Unit:</b>	346	<b>Classification</b>	I B2a1	<b><u>Management Concerns</u></b>
<b>Acreage</b>	2.186294	Is species composition changing?	No	Ecol. Interact/Ref. Site
<b>Date:</b>	4/30/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	<5' & >30'	No			
Deciduous	American beech	<5' - >30'	No			
Phanerophytes	mapleleaf viburnum	<5' & 5-30'	No			
Moist	white oak	<5' - >30'	No			
Slope						

### **Comments**

This is a closed forest unit comprised of mainly oak and American beech. It starts near the Phragmites unit and runs east along the Yellow Trail and just south of the stream. It has a dense healthy understory consisting of highbush blueberry, spicebush and tree regeneration (American beech, red oak white oak, black cherry and black birch). Other species present include sassafras, sweetgum, lowbush blueberry, pinxter bloom azalea, aster, sweet pepperbush, New York fern, hayscented fern, cinnamon fern, Virginia creeper, Rubus spp., poison ivy, Canada mayflower, red maple, tulip poplar, Japanese honeysuckle, Japanese angelica, smooth blackhaw, garlic mustard, wild onion, white snakeroot, multiflora rose, cool season grass, smartweed, cluster snakeroot, lady's thumb and deertongue grass. There was an Eastern box turtle found in this unit.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	347	<b>Classification</b>	II B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.246094	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	4/30/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	multiflora rose	<5' & 5-30'	Yes		Foot traffic	
Deciduous	oriental bittersweet	<5'	Yes			
Lianas	poison ivy	<5' - >30'	No			
Dry	Virginia creeper	<5'	No			
Slope						

### **Comments**

This is an edge unit that borders the yellow trail and the stream unit. Mostly vines in the herb stratum. The canopy species include black birch, red maple, sweetgum, American beech, red oak and pin oak. Other species include ash seedlings, black cherry regeneration, cool season grasses, Rubus spp., aster, sassafras, porcelainberry, Japanese honeysuckle, round-leaf pyrola, goldenrod, catbrier, deertongue grass and cinquefoil.

<b>Unit:</b>	348	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	0.429152	Is species composition changing?	Yes	Invasive Sp.
<b>Date:</b>	5/3/2012	Is community structure changing?	Yes	Deer Impact Herbivory

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	>30'	No	Road		Trash
Deciduous	Japanese knotweed	<5' & 5-30'	Yes	Other		
Chamaephytes	garlic mustard	<5'	Yes			
Moist	wild sarsaparilla	<5'	No			
Slope	mapleleaf viburnum	<5' & 5-30'	No			

### **Comments**

This is an edge unit that borders the Natural Gas right of way and the south west property line. Red oak is dominant in the canopy, but there is little regeneration. Most of the understory is invasive, both herbs and shrubs. There is an old road that runs from the house (by the lighthouse) down to the right of way. Other species present include poison ivy, red maple, Virginia creeper, aster spp., goldenrod, American pokeweed, black cherry, hickory spp., Rubus spp., spicebush, winged euonymus, Japanese stiltgrass, Japanese angelica tree, Canada mayflower and blackgum. Historical indicator "other" is Natural Gas pipeline.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	349	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acres:</b>	1.874796	Is species composition changing?	No	Ecol. Interact/Ref. Site
<b>Date:</b>	5/3/2012	Is community structure changing?	No	Succession Deer Impact

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5' & >30'	No	Road	Foot traffic	Trash
Deciduous	black birch	<5' - >30'	No	Other		
Chamaephytes	mapleleaf viburnum	<5' & 5-30'	No			
Moist	sweet pepperbush	<5' & 5-30'	No			
Slope	highbush blueberry	<5' & 5-30'	no			
	white oak	<5' & >30'	No			

### **Comments**

This is a large oak/birch closed forest unit. The Yellow Trail transverses the unit. The beech unit is to the north and the property line is to the south. There is a lot of oak, black birch, American beech, black cherry and red maple regeneration. There is also an intact, mostly native, understory. Other species include poison ivy, Japanese stiltgrass, spicebush, pinxter bloom azalea, cinquefoil, wild sarsaparilla, Japanese angelica, Virginia creeper, cool season grass, Rubus spp., wineberry, Aster spp., garlic mustard, oriental bittersweet, violets, Japanese barberry, Japanese knotweed, Canada mayflower, striped wintergreen, sassafras, hickory spp., jewelweed, multiflora rose, Northern lady fern and hayscented fern. There is also a sapling of American chestnut in this unit, it is resprouting from a larger dead tree that was affected by the blight.

<b>Unit:</b>	350	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acres:</b>	2.949447	Is species composition changing?	No	Succession
<b>Date:</b>	5/3/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5' & >30'	No	Full-crown tree	Foot traffic	Trash
Deciduous	white oak	<5' & >30'	No			Dumping
Chamaephytes	black birch	<5' & >30'	No			
Moist	lowbush blueberry	<5'	No			
Undulating	mapleleaf viburnum	<5' & 5-30'	No			
	pinxter bloom azalea	<5' & 5-30'	No			

### **Comments**

This is a large closed forest unit running on both sides of the Yellow Trail along the south edge of the park. It is similar to unit 349 in composition, but less dense in the understory. There are several desire lines between the two parts of the Yellow Trail. Other species present include American beech, red maple, black cherry and black cherry regeneration, sweetgum and sweetgum regeneration, white oak, black birch and black birch regeneration, swamp white oak, Solomon's seal, poison ivy, aster, catbrier, Canada mayflower, dogwood spp., highbush blueberry, grape spp., goldenrod, striped wintergreen, cool season grasses, multiflora rose, cinquefoil, Japanese honeysuckle, oriental bittersweet, viburnum spp., spicebush, lady's thumb and Virginia creeper. There are also two American chestnut saplings resprouting from dead parent trees that was affected by the blight.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	351	<b>Classification</b>	I B2a3	<b>Management Concerns</b>
<b>Acreage</b>	0.374455	Is species composition changing?	No	Other
<b>Date:</b>	5/3/2012	Is community structure changing?	Yes	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	catbrier	<5'	No		Foot traffic	Other
Deciduous	mayflower	<5'	No			
Hemicryptophytes	white oak	<5' & >30'	No			
Moist	sweetgum	>30'	No			
Undulating						

### **Comments**

This is a small closed forest unit north of the pond and south of the stream. Several desire lines run through it and surround it. The canopy is predominantly white oak and sweetgum with a couple American beech and black birch. There is a lot of catbrier and Canada mayflower, but there is also some white oak regeneration and cherry regeneration in the understory. Other species present are mapleleaf viburnum, highbush and lowbush blueberry, wild sarsaparilla, aster, poison ivy, flowering dogwood and pinxter bloom azalea. "Other" disturbance is vandalism by axe.

<b>Unit:</b>	352	<b>Classification</b>	III B1a	<b>Management Concerns</b>
<b>Acreage</b>	0.140625	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/4/2012	Is community structure changing?	No	Other

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Scrub	multiflora rose	<5' & 5-30'	Yes	Other		Erosion
Deciduous	garlic mustard	<5'	Yes			Dumping
Lianas	oriental bittersweet	<5' & 5-30'	Yes			Trash
Moist	Japanese honeysuckle	<5'	Yes			
Slope	spicebush	<5' & 5-30'	No			

### **Comments**

This is a unit that has been primarily used as a place to dump tires. It is a steep slope descending from Ocean Terr., south. It seems to be a former gully that people filled in with tires years ago. It runs almost to the stream. The understory is mostly vines and invasives. The canopy is mostly open. Other species present include Japanese stiltgrass, violets, Japanese barberry, porcelainberry, mugwort, Virginia creeper, poison ivy, jewelweed, Norway maple, cool season grass and cluster snakeroot.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	353	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acreage</b>	1.379033	Is species composition changing?	No	Deer Impact
<b>Date:</b>	5/4/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	<5' & >30'	No		Foot traffic	Trash
Deciduous	black birch	<5' - >30'	No			
Chamaephytes	spicebush	<5' & 5-30'	No			Other
Moist	Japanese honeysuckle	<5'	Yes			
Undulating	sweetgum	>30' & 5-30'	No			
	catbrier	<5'	No			

### **Comments**

This is a large closed forest unit south of Ocean Terr., east of the locust unit and north of the stream. The canopy is mostly red oak, black birch and sweetgum with a few sassafras, white oak, swamp white oak, shagbark hickory and American beech. The understory is a combination of spicebush, Japanese honeysuckle and catbrier with a diverse presence of other species. These include red maple, tulip poplar, Norway maple, musclewood, black oak and sycamore maple in the canopy. Red oak, tulip poplar, sassafras and black cherry are all regenerating. Roundleaf pyrola, wild onion, oriental bittersweet, Japanese barberry, violets, goldenrod, crabapple, highbush and lowbush blueberry, Canada mayflower, aster, pinxter bloom azalea, mapleleaf viburnum, wild sarsaparilla, Rubus spp., poison ivy, grape spp., Northern lady fern, New York fern, cinnamon fern, multiflora rose, jewelweed, white mulberry, garlic mustard, flowering dogwood, cleavers, Virginia creeper, Japanese maple, Japanese boxwood, viburnum spp., dodder spp., long-styled sweet cicely and partridge-berry.

<b>Unit:</b>	354	<b>Classification</b>	I B2a6	<b>Management Concerns</b>
<b>Acreage</b>	0.888977	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/4/2012	Is community structure changing?	Yes	Deer Impact

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	red oak	>30'	No			Trash
Deciduous	pin oak	>30'	No			Other
Lianas	white oak	>30'	No			
Moist	catbrier	<5'	No			
Slope	Japanese honeysuckle	<5'	Yes			
	multiflora rose	<5'	Yes			

### **Comments**

This is a small closed forest unit with little regeneration or native shrub understory. It is comprised of canopy trees (red oak, pin oak, swamp white oak, white oak, black birch, mockernut hickory) and vines (catbrier, Japanese honeysuckle and multiflora rose). Other species include American beech, Norway maple, ash, oriental bittersweet, lowbush blueberry, Virginia creeper, mapleleaf viburnum, cool season grass, Rubus spp., aster, tulip poplar, goldenrod, sweetgum, blackhaw, poison ivy and sassafras.



## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	355	<b>Classification</b>	VIII D	<b>Management Concerns</b>
<b>Acreage</b>	0.206391	Is species composition changing?	No	Deer Impact
<b>Date:</b>	5/4/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	Japanese knotweed	<5' & 5-30'	Yes			Erosion
Deciduous	oriental bittersweet	<5'	Yes			Dumping
Lianas	Japanese honeysuckle	<5'	Yes			Trash
Moist						
Slope						

### **Comments**

This unit is a vineland just south of Ocean Terr. It is a steep slope descending south from a house. Other species present (in minimal amounts) are multiflora rose, spicebush, jewelweed, jetbead, catbrier, wineberry, garlic mustard, elderberry, American pokeweed, grape spp., cleavers, Rubus spp., mugwort, lambsquarters, porcelainberry, bitter dock and cool season grass.

<b>Unit:</b>	356	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acreage</b>	0.032891	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/4/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	Japanese knotweed	<5' & 5-30'	Yes	Other		Soil compaction
Deciduous	oriental bittersweet	<5' & 5-30'	Yes			Planting
Lianas	English ivy	<5'	Yes			
Moist						
Level						

### **Comments**

This is a vineland on the edge of Ocean Terr. and between two houses. It is just north of the other vineland. Species are similar but there are a couple trees and a couple shrubs that are not present in the adjacent vineland. Other species include cleavers, sycamore maple, cherry regeneration, sweetgum, mugwort, Japanese honeysuckle, porcelainberry, bitterdock, aster, pignut hickory, rose of Sharon, Rubus spp., goldenrod, violets and hostas.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	357	<b>Classification</b>	VIII C	<b>Management Concerns</b>
<b>Acres:</b>	0.274985	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/7/2012	Is community structure changing?	No	Encroachment Deer Impact

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Japanese honeysuckle	<5'	Yes			Fire
Deciduous	multiflora rose	<5'	Yes			Erosion
Lianas	oriental bittersweet	<5' & 5-30'	Yes			Soil compaction
Moist	garlic mustard	<5'	Yes			
Slope	jetbead	<5'	Yes			

### Comments

This is a very disturbed edge unit south of Ocean Terr. There is significant encroachment, past and present. It is a steep slope primarily covered in Japanese honeysuckle and multiflora rose. Other herbaceous species include catbrier, poison ivy, porcelainberry, cool season grasses, cleavers, English ivy, jewelweed, Virginia creeper, goldenrod, American hazelnut and bracken fern. There are a couple surviving trees in the unit, they are mockernut hickory, sassafras, and red oak. Several trees have been overcome by the vines. In addition, dumping is also a factor of environmental disturbance. The multiflora rose and Japanese honeysuckle have similar disease/biocide discoloration that is present on the western side of the park.

<b>Unit:</b>	358	<b>Classification</b>	II B2a6	<b>Management Concerns</b>
<b>Acres:</b>	0.628583	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/7/2012	Is community structure changing?	Yes	Encroachment Deer Impact

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	catbrier	<5'	No			Fire
Deciduous	Japanese honeysuckle	<5'	Yes			Erosion
Lianas	Japanese angelica	<5' - >30'	Yes		Vehicle access	Dumping
Moist	red oak	>30'	No			
Slope	oriental bittersweet	<5' & 5-30'	Yes			

### Comments

This unit is a woodland starting at the north edge of the park that borders Ocean Terr. It runs down a steep slope into a closed forest, the vines become less dense at the south edge of the unit. The canopy is primarily composed of red oak with a few swamp white oaks and sassafras mixed in. The ground vegetation is primarily catbrier and Japanese honeysuckle. There is a lot of sassafras and black cherry regeneration and some red maple, red oak and swamp white oak regeneration. There are also several Japanese angelica trees and one large community of wineberry. Other species present include porcelainberry, multiflora rose, Solomon's seal, Japanese knotweed, aster, Virginia creeper, cool season grasses, mapleleaf viburnum, lowbush blueberry, pinxter bloom azalea, cinnamon fern, jetbead, garlic mustard, jewelweed, English ivy, winged euonymus, Rubus spp., American hazelnut, American holly and poison ivy. Regenerating species are sassafras, black cherry and red maple.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	359	<b>Classification</b>	I B2a2	<b>Management Concerns</b>
<b>Acres:</b>	1.820737	Is species composition changing?	No	Deer Impact
<b>Date:</b>	5/7/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	catbrier	<5'	No		Foot traffic	Trash
Deciduous	mapleleaf viburnum	<5'	No			
Chamaephytes	lowbush blueberry	<5'	No			
Moist	red oak	>30'	No			
Undulating	pinxter bloom azalea	<5' & 5-30'	No			
	American beech	<5' - >30'	No			

### **Comments**

This is a closed forest unit north of the stream and south of Ocean Terr. There is a lot of tree regeneration despite the ground cover being primarily catbrier. Canopy species include black oak, white oak, swamp white oak, bitternut hickory, mockernut hickory, red maple, sassafras, black birch and chestnut oak. Other species present include American holly, asters, sweetgum, Northern lady fern, Hercules club, cinquefoil, New York fern, spicebush, highbush blueberry, mushroom spp., pinxter bloom azalea, white snakeroot, Canada mayflower, Virginia creeper, deertongue, cool season grasses, oriental bittersweet, goldenrod, mapleleaf viburnum, Rubus spp. and smartweed. Regenerating species are sassafras, black cherry, sweetgum, black birch, red maple, white oak, swamp white oak and American beech.

<b>Unit:</b>	360	<b>Classification</b>	II B2a6	<b>Management Concerns</b>
<b>Acres:</b>	0.81275	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/8/2012	Is community structure changing?	Yes	Deer Impact

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Woodland	catbrier	<5' - >30'	No			Soil compaction
Deciduous	oriental bittersweet	<5' - >30'	Yes			
Lianas	Japanese honeysuckle	<5'	Yes			
Moist	garlic mustard	<5'	Yes			
Knoll	sassafras	<5'	No			
	multiflora rose	<5' & 5-30'	Yes			

### **Comments**

This unit is a small woodland that may be transitioning into a vineland. It covers the top and part of the sides of a knoll in the north/northeast part of the park, close to the Ocean Terr. boundary. The canopy is mostly sassafras and young red oak with a few black cherry, tree of heaven and hickories mixed in. The understory is predominantly catbrier and oriental bittersweet which have ascended many trees. Other species present include Rubus spp., long-styled sweet cicely, aster, Japanese angelica tree, flowering dogwood, multiflora rose, deertongue, poison ivy, lowbush blueberry, goldenrod, white oak, swamp white oak, pin oak, Virginia creeper, cool season grass, black birch, porcelainberry, wineberry, cleavers, Canada mayflower, mockernut hickory and shagbark hickory. Regenerating species are black cherry, red maple, American beech, white oak, red oak and swamp white oak.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	361	<b>Classification</b>	I B2a1	<b>Management Concerns</b>
<b>Acres:</b>	0.674013	Is species composition changing?	No	Deer Impact
<b>Date:</b>	5/8/2012	Is community structure changing?	No	

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Closed Forest	black birch	<5' - >30'	No		Foot traffic	Dumping
Deciduous	black cherry	<5'	No			Trash
Phanerophytes						
Moist						
Slope						

### **Comments**

This is a small closed forest unit dominated by young black birch trees. It is south of Ocean Terr. Other canopy species include red oak, pin oak, sweetgum, swamp white oak, American beech, red maple, white oak and sassafras. The understory is sparse, but species include mapleleaf viburnum, blueberry, striped wintergreen, Solomon's seal, poison ivy, Virginia creeper, Japanese honeysuckle, Japanese maple, cool season grass, goldenrod, shagbark hickory, catbrier, aster and pinxter bloom azalea. Regenerating species are sassafras, red maple, white oak and red oak.

<b>Unit:</b>	362	<b>Classification</b>	VIII B	<b>Management Concerns</b>
<b>Acres:</b>	0.099914	Is species composition changing?	No	Invasive Sp.
<b>Date:</b>	5/9/2012	Is community structure changing?	No	Herbivory
				Deer Impact

<b>Site:</b>	<b>Species</b>	<b>Height</b>	<b>Exotic</b>	<b>Historical</b>	<b>Uses</b>	<b>Disturbances</b>
Vineland	porcelainberry	<5' & 5-30'	Yes			Erosion
Deciduous	multiflora rose	<5' & 5-30'	Yes			Soil compaction
Lianas	Japanese honeysuckle	<5'	Yes			Dumping
Moist	garlic mustard	<5'	Yes			
Slope						

### **Comments**

This is a steeply sloped vineland west of a pond maintained by a neighborhood association. There are a few canopy trees, including red oak, sweetgum, pin oak, Norway maple and American elm, but most of the canopy is open. Other species include cleavers, wild sarsaparilla, poison ivy, Virginia creeper, jewelweed, English ivy, New York fern, spicebush, grape spp., catbrier, mugwort, bitter dock and long-styled sweet cicely. Trash is also an environmental disturbance.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	363	<b>Classification</b>	II B2a1	<b><u>Management Concerns</u></b>		
<b>Acres:</b>	0.675148	Is species composition changing?	No	Herbivory		
<b>Date:</b>	5/9/2012	Is community structure changing?	No	Deer Impact		

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Woodland	pin oak	>30'	No		Foot traffic	Dumping
Deciduous	poison ivy	<5' - >30'	No			Trash
Phanerophytes	sweetgum	<5' - >30'	No			
Wet	Japanese honeysuckle	<5'	Yes			
	black cherry	<5' - >30'	No			
	tulip poplar	<5' - >30'	No			

### **Comments**

This unit is a closed forest with one large canopy gap on the southern end of it. The understory is dominated by multiflora rose in the canopy gap. The Yellow Trail runs along the west border of the unit. There is a lot of canopy tree regeneration. Other species include English ivy, garlic mustard, New York fern, wild sarsaparilla, Virginia creeper, poison ivy, spicebush, wild onion, Japanese honeysuckle, aster, blackgum, jewelweed, catbrier, Japanese angelica tree, American beech, mapleleaf viburnum, swamp cabbage, oriental bittersweet, Canada mayflower, cool season grasses, Japanese stiltgrass and American basswood. Regenerating species are sweetgum, red oak, ash spp., tulip poplar, red maple, black cherry, swamp white oak, white oak and sassafras.

<b>Unit:</b>	364	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>		
<b>Acres:</b>	0.751564	Is species composition changing?	No	Herbivory		
<b>Date:</b>	5/9/2012	Is community structure changing?	No	Deer Impact		

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	<5' & >30'	No		Foot traffic	Dumping
Deciduous	lowbush blueberry	<5'	No		Picnic	Trash
Chamaephytes	white oak	<5' - >30'	No			Trash
Moist	black birch	<5' & >30'	No			
Slope						

### **Comments**

This is a closed forest unit that has the Yellow Trail running through it and has a picnic site in it. The canopy is mostly red oak, white oak and black birch. Other trees in the canopy are American beech, black oak and sassafras. There is a lot of white oak regeneration and a lot of lowbush blueberry in the understory. Other species include Virginia creeper, cool season grasses, mapleleaf viburnum, goldenrod, poison ivy, highbush blueberry, flowering dogwood, spicebush, aster, American chestnut and Japanese angelica tree. Regenerating species are red oak, American beech, black birch, black cherry, sassafras, sweetgum and hickories.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	365	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.681372	Is species composition changing?	No	
<b>Date:</b>	5/10/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	>30'	No		Foot traffic	
Deciduous	black birch	>30' & 5-30'	No			
Chamaephytes	white oak	>30' & 5-30'	No			
Moist	lowbush blueberry	<5'	No			
Slope						

### **Comments**

This unit is a closed forest south of Ocean Terr. and north of the Yellow Trail. There is very little understory. Canopy is mostly red oak, white oak and black birch. Other species include lowbush blueberry, flowering dogwood, catbrier, blackgum, pinxter bloom azalea, mapleleaf viburnum, American chestnut, cinnamon fern and black cherry. Regenerating species are sassafras, black birch, white oak, sweetgum, red oak, red maple, American beech and black cherry.

<b>Unit:</b>	366	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	1.568871	Is species composition changing?	No	Deer Impact
<b>Date:</b>	5/10/2012	Is community structure changing?	No	Herbivory
				Ecol. Interact/Ref. Site

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	<5' & >30'	No		Foot traffic	
Deciduous	highbush blueberry	<5' & 5-30'	No			
Chamaephytes	white oak	<5' & >30'	No			
Moist						
Undulating						

### **Comments**

This is a nice closed forest unit. Dominant canopy trees are red oak, white oak and black oak. Highbush blueberry is dominant throughout the understory. Other species include lowbush blueberry, spicebush, black birch, pinxter bloom azalea, catbrier, mapleleaf viburnum, cinnamon fern, New York fern, cool season grass, Canada mayflower, aster, sassafras, Virginia creeper, oriental bittersweet, trout lily, red maple, American beech, black birch, blackgum and sweetgum. Regenerating species are black birch, red oak, white oak, black cherry, red maple, sweetgum and sassafras.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	367	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.068338	Is species composition changing?	No	Encroachment
<b>Date:</b>	5/10/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	witch hazel	<5' & 5-30'	No			
Deciduous	red oak	>30'	No			
Chamaephytes						
Moist						
Slope						

### **Comments**

This is an oak closed forest that has a lot of witch hazel, it's a solid healthy population. Other species present are pinxter bloom azalea, sassafras, black birch, red maple, American beech, catbrier, black oak and black cherry. A red-backed salamander was observed in the unit. Regenerating species is sassafras. The witch hazel is a rare species within the park, and the size of this stand is unrivaled within the park.

<b>Unit:</b>	368	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>
<b>Acreage</b>	0.278673	Is species composition changing?	No	Deer Impact
<b>Date:</b>	5/10/2012	Is community structure changing?	No	

<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	catbrier	<5'	No			Trash
Deciduous	blackgum	<5' - >30'	No			
Chamaephytes	spicebush	<5' & 5-30'	No			
Moist						
Level						

### **Comments**

This is a closed forest unit north of the stream and the island between the stream split. Blackgum dominates the canopy with one American elm, one muscledwood and a few red oaks present. Spicebush and catbrier dominate the understory. Other species include poison ivy, multiflora rose, long-styled sweet cicely, jewelweed, Canada mayflower, hackberry, Japanese barberry, cinnamon fern, oriental bittersweet, aster, Solomon's seal, mapleleaf viburnum, garlic mustard, Vitis spp., Virginia creeper, Northern lady fern, white snakeroot and American hazelnut. Regenerating species are black birch, sweetgum, black cherry, blackgum, white oak, swamp white oak, red maple, American elm and tulip poplar.

## Reed's Basket Willow Swamp Entitation Unit Descriptions, Surveyed 2011-2012

<b>Unit:</b>	369	<b>Classification</b>	I B2a2	<b><u>Management Concerns</u></b>		
<b>Acreage</b>	2.035642	Is species composition changing?	No	Succession		
<b>Date:</b>	5/14/2012	Is community structure changing?	No	Ecol. Interact/Ref. Site		
				Deer Impact		
<b><u>Site:</u></b>	<b><u>Species</u></b>	<b><u>Height</u></b>	<b><u>Exotic</u></b>	<b><u>Historical</u></b>	<b><u>Uses</u></b>	<b><u>Disturbances</u></b>
Closed Forest	red oak	<5' & >30'	No		Foot traffic	
Deciduous	highbush blueberry	<5' & 5-30'	No			
Chamaephytes						
Moist						
Slope						

### **Comments**

This is a large closed forest unit just north of the stream on the eastern side of the park. There are a lot of tulip poplar, red maple and white oak saplings. There is also black cherry, sweetgum, sassafras, red oak and swamp white oak regeneration. Several desire lines cut through the unit, as does the Yellow Trail. Other species present include highbush blueberry, lowbush blueberry, wild sarsaparilla, New York fern, aster, Solomon's seal, catbrier, flowering dogwood, poison ivy, Japanese angelica tree, goldenrod, Virginia creeper, cool season grass, cinnamon fern, striped wintergreen and mapleleaf viburnum.



## Section IV. APPENDIX 1: Glossary

Many of these definitions are adapted from Marge Garguillo's unpublished *Plants of New York City Natural Areas: An ecological manual* (2005).

**Chamaephyte:** Mature branch or shoot system remaining perennially less than or equal to 100 in above ground. Buds are produced on aerial branches close to the soil. (e.g. shrubs)

**Closed forest:** An area formed by trees at least 15 feet tall with interlocking crowns and at least 80% canopy closure.

**Competition:** The ability of one plant to overwhelm another plant by shading it out or otherwise overwhelming it.

**Deciduous:** Majority of trees shed their foliage in the autumn months.

**Depression:** A hollow, or low point, as compared to the surrounding topography. May or may not contain water.

**Dominant:** The most abundant plants in a particular plant community. A codominant plant is about equally as abundant as the dominant species.

**Exotic:** A species that does not naturally inhabit a specific area. An exotic plant may or may not be invasive where it is introduced.

**Exotic planting:** A gardened area where non-native species (e.g. privet, periwinkle) are tended.

**Full-crown tree:** Initially open-grown and free of competition: currently very large with a dominating crown.

**Geophyte:** Plants with buds or shoots surviving below the ground (rhizomes, bulbs, stem tubers, root tubers.)

**Graminoid:** Grasses and grass-like plants.

**Hedgerow:** Evidence of trees or shrubs planted in line i.e., maple or privet along road or path.

**Hemicryptophyte:** Shoots die back to ground level.

**Herb:** Plants without woody tissues that die back to the ground in the winter. This classification is usually applied to broad-leaved plants rather than grasses, but includes grasses for the purpose of entitation.

**Herbaceous community:** An area where grasses, grass like plants, and herbaceous plants are predominant. Woody plants may be sparingly present, but cover less than 30% of area.

**Intertidal community:** Substrate is exposed and flooded by tides, includes the associated splash zone.

**Invasive plant:** A plant species that grows and reproduces without constraint, crowding or shading out other plants. The term is usually applied to plants that are not native to the given region. Invasiveness in a plant that is native to the region is rare and probably caused by unusual circumstances.

**Knoll:** A small isolated hillock.

**Landfill:** Topography altered by previous filling or dumping: i.e., while building a road or altering a wetland area. Look for rubble on the soil surface or sudden changes in grade.

**Lianas:** Vascular plants needing support, rooting in the ground permanently (vines).

**Native plant:** Plants that were growing in this region before Europeans came to North America. Native plants are adapted to the climate and soils of their region. They have relationships with birds, mammals, insects, and fungi and are integrated into the ecology of the region. New York City's native plants come from seed that spread northward after the last glaciers melted thousands of years ago.

**Ornamental:** Plants used as horticultural specimens in gardens or developed parks, not intended to reproduce or be part of a natural plant community. Very often they are non-native plants.

**Phanerophyte:** Plants that grow taller than 100 in. or whose shoots do not die back periodically to that height (e.g., trees).

**Scrub:** A shrubland or thicket, mainly composed of woody plants 1.5 to 15 feet tall.

**Slope:** Ground that forms a natural or artificial incline.

**Soil compaction:** Increasing soil density and decreasing porosity due to application of mechanical forces to the soil: i.e. due to vehicle, horse, or foot traffic.

**Species:** A group of organisms that can interbreed to produce fertile young.

**Understory:** Habitat below the tree canopy of a forest. The understory is a plant community of tree saplings, shrubs, herbs, graminoids, and mosses that can live in shade or part shade.

**Undulating:** The area has a wavy surface. It is neither a slope, a level area, or a depression, but rather a combination of all three.

**Vineland:** An area formed by at least 30% vines. Vines may be supported by vegetation, artificial means or ground surface. Often occurs on the forest or shrub border.

**Woodland:** An area formed by trees at least 15 feet tall, with most of their crowns not touching each other, but at least 30% canopy closure.

## Section V. APPENDIX 2: Species List

The following list of species are found in the Northeast United States.

Common Name	Scientific Name	Common Name	Scientific Name
Adam's needle	<i>Yucca filamentosa</i>	arrow arum	<i>Peltandra spp.</i>
adder's-mouth orchid	<i>Malaxis spp.</i>	arrowfeather threeawn	<i>Aristida purpurascens</i>
agrimony	<i>Agrimonia gryposepala</i>	arrowhead	<i>Sagittaria spp.</i>
alder	<i>Alnus spp.</i>	arrowhead rattlebox	<i>Crotalaria sagittalis</i>
alfalfa	<i>Medicago spp.</i>	arrowleaf tearthumb	<i>Polygonum sagittatum</i>
algae spp.		arrowleaf violet	<i>Viola sagittata</i>
alkaligrass	<i>Puccinellia spp.</i>	arrowwood	<i>Viburnum dentatum</i>
Allegheny blackberry	<i>Rubus allegheniensis</i>	ash	<i>Fraxinus spp.</i>
Allegheny monkeyflower	<i>Mimulus ringens</i>	Asian flatsedge	<i>Cyperus amuricus</i>
alternatleaf dogwood	<i>Cornus alternifolia</i>	Asiatic bittersweet	<i>Celastrus orbiculatus</i>
alumroot	<i>Heuchera spp.</i>	Asiatic dayflower	<i>Commelina communis</i>
American alumroot	<i>Heuchera americana</i>	asparagus	<i>Asparagus spp.</i>
American basswood	<i>Tilia americana</i>	aster	<i>Eurybia spp.</i>
American beachgrass	<i>Ammophila breviligulata</i>	aster	<i>Ionactis spp.</i>
American beech	<i>Fagus grandifolia</i>	aster	<i>Oclemena spp.</i>
American bittersweet	<i>Celastrus scandens</i>	aster	<i>Symphyotrichum spp.</i>
American bladdernut	<i>Staphylea trifolia</i>	Atlantic mannagrass	<i>Glyceria obtusa</i>
American bur-reed	<i>Spartanium americanum</i>	Atlantic white cedar	<i>Chamaecyparis thyoides</i>
American cancer-root	<i>Conopholis americana</i>	Austrian pine	<i>Pinus nigra</i>
American chestnut	<i>Castanea dentata</i>	autumn coralroot	<i>Corallorhiza odontorhiza</i>
American elm	<i>Ulmus americana</i>	autumn olive	<i>Elaeagnus umbellata</i>
American false pennyroyal	<i>Hedeoma pulegioides</i>	avens	<i>Geum spp.</i>
American featherfoil	<i>Hottonia inflata</i>	bald brome	<i>Bromus racemosus</i>
American hazelnut	<i>Corylus americana</i>	baldcypress	<i>Taxodium distichum</i>
American holly	<i>Ilex opaca</i>	balsam fir	<i>Abies balsamea</i>
American hornbeam	<i>Carpinus caroliniana</i>	balsam poplar	<i>Populus balsamifera</i>
American ipecac	<i>Euphorbia ipecacuanhae</i>	baneberry	<i>Actaea spp.</i>
American mannagrass	<i>Glyceria grandis</i>	barbed bristlegrass	<i>Setaria verticilliformis</i>
American mountain ash	<i>Sorbus americana</i>	barley	<i>Hordeum spp.</i>
American plum	<i>Prunus americana</i>	barnyardgrass	<i>Echinochloa crus-galli</i>
American pokeweed	<i>Phytolacca americana</i>	basil mountainmint	<i>Pycnanthemum clinopodioides</i>
American red raspberry	<i>Rubus idaeus</i>		<i>Comandra umbellata</i>
American senna	<i>Senna hebecarpa</i>	bastard toadflax	<i>Myosotis laxa</i>
American speedwell	<i>Veronica americana</i>	bay forget-me-not	<i>Morella spp.</i>
American strawberry bush	<i>Euonymus americanus</i>	bayberry	<i>Xanthium strumarium</i>
American sycamore	<i>Platanus occidentalis</i>	beach clotbur	<i>Agalinis fasciculata</i>
American water plantain	<i>Alisma subcordatum</i>	beach false foxglove	<i>Lathyrus japonicus</i>
American white waterlily	<i>Nymphaea odorata</i>	beach pea	<i>Prunus maritima</i>
American wintergreen	<i>Pyrola americana</i>	beach plum	<i>Carex silicea</i>
American witchhazel	<i>Hamamelis virginiana</i>	beach sedge	<i>Eleocharis rostellata</i>
American yew	<i>Taxus canadensis</i>	beaked spikerush	<i>Rhynchospora spp.</i>
Amur corktree	<i>Phellodendron amurense</i>	beaksedge	<i>Quercus ilicifolia</i>
Amur honeysuckle	<i>Lonicera maackii</i>	bear oak	<i>Salix bebbiana</i>
Amur maackia	<i>Maackia amurensis</i>	Bebb willow	<i>Galium spp.</i>
Amur maple	<i>Acer ginnala</i>	bedstraw	<i>Fagus spp.</i>
anemone	<i>Anemone spp.</i>	beech	<i>Epifagus virginiana</i>
anisescented goldenrod	<i>Solidago odora</i>	beechdrops	<i>Phegopteris spp.</i>
annual bluegrass	<i>Poa annua</i>	beechfern	<i>Bidens spp.</i>
annual canarygrass	<i>Phalaris canariensis</i>	beggarticks	<i>Uvularia spp.</i>
annual wildrice	<i>Zizania aquatica</i>	bellwort	<i>Carex styloflexa</i>
apple	<i>Malus spp.</i>	bent sedge	<i>Agrostis spp.</i>
arborvitae	<i>Thuja occidentalis</i>	bentgrass	<i>Cynodon dactylon</i>
arborvitae	<i>Thuja spp.</i>	Bermudagrass	<i>Andropogon gerardii</i>
arctic rush	<i>Juncus arcticus</i>	big bluestem	<i>Spartina cynosuroides</i>
		big cordgrass	

Common Name	Scientific Name	Common Name	Scientific Name
big devils beggartick	<i>Bidens vulgata</i>	bristlegrass	<i>Setaria spp.</i>
bigbract verbena	<i>Verbena bracteata</i>	bristly buttercup	<i>Ranunculus hispidus</i>
bigtooth aspen	<i>Populus grandidentata</i>	bristly dewberry	<i>Rubus hispidus</i>
billion-dollar grass	<i>Echinochloa frumentacea</i>	brittle bladderfern	<i>Cystopteris fragilis</i>
bindweed	<i>Convolvulus spp.</i>	broad beechfern	<i>Phegopteris hexagonoptera</i>
birch	<i>Betula spp.</i>	broadfruit bur-reed	<i>Sparganium eurycarpum</i>
birdeye speedwell	<i>Veronica persica</i>	broadleaf cattail	<i>Typha latifolia</i>
birdfoot violet	<i>Viola pedata</i>	broadleaf rosette grass	<i>Dichanthelium latifolium</i>
bitter panicgrass	<i>Panicum amarum</i>	brome	<i>Bromus spp.</i>
bittercress	<i>Cardamine spp.</i>	brookweed	<i>Samolus spp.</i>
bitternut hickory	<i>Carya cordiformis</i>	broomcorn millet	<i>Panicum miliaceum</i>
black alder	<i>Alnus glutinosa</i>	broomrape	<i>Orobanche spp.</i>
black baneberry	<i>Actaea racemosa</i>	broomsedge bluestem	<i>Andropogon virginicus</i>
black bindweed	<i>Polygonum convolvulus</i>	brown knapweed	<i>Centaurea jacea</i>
black birch/sweet birch	<i>Betula lenta</i>	brown widelip orchid	<i>Liparis liliifolia</i>
black cherry	<i>Prunus serotina</i>	brownish beaksedge	<i>Rhynchospora capitellata</i>
black huckleberry	<i>Gaylussacia baccata</i>	browntop	<i>Microstegium spp.</i>
black knapweed	<i>Centaurea nigra</i>	buckeye	<i>Aesculus spp.</i>
black locust	<i>Robinia pseudoacacia</i>	buckwheat	<i>Fagopyrum esculentum</i>
black maple	<i>Acer nigrum</i>	bull thistle	<i>Cirsium vulgare</i>
black oak	<i>Quercus velutina</i>	bulrush	<i>Scirpus spp.</i>
black walnut	<i>Juglans nigra</i>	bur cucumber	<i>Sicyos spp.</i>
black willow	<i>Salix nigra</i>	bur oak	<i>Quercus macrocarpa</i>
blackberry	<i>Rubus spp.</i>	burdock	<i>Arctium spp.</i>
blackeyed Susan	<i>Rudbeckia hirta</i>	burnet	<i>Sanguisorba spp.</i>
blackgum	<i>Nyssa sylvatica</i>	burningbush	<i>Euonymus alatus</i>
blackhaw	<i>Viburnum prunifolium</i>	bur-reed	<i>Sparganium spp.</i>
blackjack oak	<i>Quercus marilandica</i>	bush honeysuckle	<i>Diervilla spp.</i>
blackseed plantain	<i>Plantago rugelii</i>	bushy bluestem	<i>Andropogon glomeratus</i>
blackseed speargrass	<i>Piptochaetium avenaceum</i>	bushy knotweed	<i>Polygonum ramosissimum</i>
bladderfern	<i>Cystopteris spp.</i>	butter and eggs	<i>Linaria vulgaris</i>
blazing star	<i>Liatris spp.</i>	buttercup	<i>Ranunculus spp.</i>
bloodroot	<i>Sanguinaria canadensis</i>	butterfly milkweed	<i>Asclepias tuberosa</i>
blue atlas cedar	<i>Cedrus atlantica</i>	butternut	<i>Juglans cinerea</i>
blue huckleberry	<i>Gaylussacia frondosa</i>	button sedge	<i>Carex bullata</i>
blue sedge	<i>Carex glaucoidea</i>	buttonweed	<i>Diodia spp.</i>
blue skullcap	<i>Scutellaria lateriflora</i>	calico aster	<i>Symphotrichum lateriflorum</i>
blue waxweed	<i>Cuphea viscosissima</i>	callery pear	<i>Pyrus calleryana</i>
blue wild indigo	<i>Baptisia australis</i>	camphorweed	<i>Pluchea spp.</i>
blueberry	<i>Vaccinium spp.</i>	campion	<i>Lychnis spp.</i>
bluecurls	<i>Trichostema spp.</i>	Canada bluegrass	<i>Poa compressa</i>
blue-eyed grass	<i>Sisyrinchium spp.</i>	Canada goldenrod	<i>Solidago canadensis</i>
bluegrass	<i>Poa spp.</i>	Canada lettuce	<i>Lactuca canadensis</i>
bluejacket	<i>Tradescantia ohiensis</i>	Canada lily	<i>Lilium canadense</i>
bluejoint	<i>Calamagrostis canadensis</i>	Canada mayflower	<i>Maianthemum canadense</i>
bluestem	<i>Andropogon spp.</i>	Canada thistle	<i>Cirsium arvense</i>
bluet	<i>Houstonia spp.</i>	Canada toadflax	<i>Nuttallanthus canadensis</i>
blunt broom sedge	<i>Carex tribuloides</i>	Canadian blacksnakeroot	<i>Sanicula canadensis</i>
blunt spikerush	<i>Eleocharis obtusa</i>	Canadian clearweed	<i>Pilea pumila</i>
bluntleaf bedstraw	<i>Galium obtusum</i>	Canadian lousewort	<i>Pedicularis canadensis</i>
bluntlobe cliff fern	<i>Woodsia obtusa</i>	Canadian rush	<i>Juncus canadensis</i>
bog fern	<i>Thelypteris simulata</i>	Canadian serviceberry	<i>Amelanchier canadensis</i>
bog rush	<i>Juncus biflorus</i>	Canadian woodnettle	<i>Laportea canadensis</i>
bog yellowcress	<i>Rorippa palustris</i>	canarygrass	<i>Phalaris spp.</i>
Boston ivy	<i>Parthenocissus tricuspidata</i>	cankerweed	<i>Prenanthes serpentaria</i>
bouncing bet	<i>Saponaria officinalis</i>	cantaloupe	<i>Cucumis melo</i>
boxelder	<i>Acer negundo</i>	cardinalflower	<i>Lobelia cardinalis</i>
brackenfern	<i>Pteridium spp.</i>	Carolina geranium	<i>Geranium carolinianum</i>
bright green spikerush	<i>Eleocharis olivacea</i>	Carolina mosquitofern	<i>Azolla caroliniana</i>

Common Name	Scientific Name	Common Name	Scientific Name
Carolina rose	<i>Rosa carolina</i>	common grape hyacinth	<i>Muscari botryoides</i>
carpetweed	<i>Mollugo</i> spp.	common hackberry	<i>Celtis occidentalis</i>
catalpa	<i>Catalpa</i> spp.	common hop	<i>Humulus lupulus</i>
catberry	<i>Ilex mucronata</i>	common hoptree	<i>Ptelea trifoliata</i>
catbrier	<i>Smilax</i> spp.	common juniper	<i>Juniperus communis</i>
catchfly	<i>Silene</i> spp.	common ladyfern	<i>Athyrium filix-femina</i>
catnip	<i>Nepeta cataria</i>	common mallow	<i>Malva neglecta</i>
cat's ear	<i>Hypochaeris</i> spp.	common milkweed	<i>Asclepias syriaca</i>
cattail	<i>Typha</i> spp.	common moonseed	<i>Menispermum canadense</i>
cattail sedge	<i>Carex typhina</i>	common mullein	<i>Verbascum thapsus</i>
cedar	<i>Chamaecyparis</i> spp.	common oat	<i>Avena sativa</i>
celandine	<i>Chelidonium majus</i>	common pear	<i>Pyrus communis</i>
cereal rye	<i>Secale cereale</i>	common pepperweed	<i>Lepidium densiflorum</i>
chainfern	<i>Woodwardia</i> spp.	common periwinkle	<i>Vinca minor</i>
cheatgrass	<i>Bromus tectorum</i>	common persimmon	<i>Diospyros virginiana</i>
chestnut	<i>Castanea</i> spp.	common plantain	<i>Plantago major</i>
chestnut oak	<i>Quercus prinus</i>	common pricklyash	<i>Zanthoxylum americanum</i>
chicory	<i>Cichorium intybus</i>	common ragweed	<i>Ambrosia artemisiifolia</i>
Chinese chestnut	<i>Castanea mollissima</i>	common serviceberry	<i>Amelanchier arborea</i>
Chinese wisteria	<i>Wisteria sinensis</i>	common sheep sorrel	<i>Rumex acetosella</i>
chokeberry	<i>Photinia</i> spp.	common sowthistle	<i>Sonchus oleraceus</i>
chokecherry	<i>Prunus virginiana</i>	common spikerush	<i>Eleocharis palustris</i>
Christmas fern	<i>Polystichum acrostichoides</i>	common threesquare	<i>Schoenoplectus pungens</i>
churchmouse threeawn	<i>Aristida dichotoma</i>	common velvetgrass	<i>Holcus lanatus</i>
cinnamon fern	<i>Osmunda cinnamomea</i>	common winterberry	<i>Ilex verticillata</i>
cinquefoil	<i>Potentilla</i> spp.	common yarrow	<i>Achillea millefolium</i>
clammy hedgehyssop	<i>Gratiola neglecta</i>	compact dodder	<i>Cuscuta compacta</i>
clearweed	<i>Pilea</i> spp.	composite dropseed	<i>Sporobolus compositus</i>
cliff fern	<i>Woodsia</i> spp.	cone-cup spikerush	<i>Eleocharis tuberculosa</i>
climbing false buckwheat	<i>Polygonum scandens</i>	coneflower	<i>Rudbeckia</i> spp.
climbing hempvine	<i>Mikania scandens</i>	cool season grass	
climbing nightshade	<i>Solanum dulcamara</i>	coon's tail	<i>Ceratophyllum demersum</i>
Clinton's woodfern	<i>Dryopteris clintoniana</i>	coralroot	<i>Corallorhiza</i> spp.
clover	<i>Trifolium</i> spp.	cordgrass	<i>Spartina</i> spp.
clustered mille grains	<i>Oldenlandia uniflora</i>	corn chamomile	<i>Anthemis arvensis</i>
clustered mountainmint	<i>Pycnanthemum muticum</i>	corn gromwell	<i>Buglossoides arvensis</i>
clustered snakeroot	<i>Sanicula odorata</i>	corn speedwell	<i>Veronica arvensis</i>
coast cockspur grass	<i>Echinochloa walteri</i>	Cornelian cherry	<i>Cornus mas</i>
coastal jointweed	<i>Polygonella articulata</i>	cosmopolitan bulrush	<i>Schoenoplectus maritimus</i>
coastal plain blue-eyed grass	<i>Sisyrinchium fuscatum</i>	cottongrass	<i>Eriophorum</i> spp.
cockspur grass	<i>Echinochloa</i> spp.	cow vetch	<i>Vicia cracca</i>
codlins and cream	<i>Epilobium hirsutum</i>	cowbane	<i>Oxypolis</i> spp.
colicroot	<i>Aletris</i> spp.	cowparsnip	<i>Heracleum</i>
Collins' sedge	<i>Carex collinsii</i>	crabgrass	<i>Digitaria</i> spp.
Colorado blue spruce	<i>Picea pungens</i>	crack willow	<i>Salix fragilis</i>
columbine	<i>Aquilegia</i> spp.	cranberry	<i>Vaccinium macrocarpon</i>
common barberry	<i>Berberis vulgaris</i>	crapemyrtle	<i>Lagerstroemia indica</i>
common blue violet	<i>Viola sororia</i>	cream avens	<i>Geum virginianum</i>
common blue wood aster	<i>Symphyotrichum cordifolium</i>	creeping bentgrass	<i>Agrostis stolonifera</i>
common boneset	<i>Eupatorium perfoliatum</i>	creeping buttercup	<i>Ranunculus repens</i>
common buckthorn	<i>Rhamnus cathartica</i>	creeping lespedeza	<i>Lespedeza repens</i>
common buttonbush	<i>Cephalanthus occidentalis</i>	creeping velvetgrass	<i>Holcus mollis</i>
common chickweed	<i>Stellaria media</i>	creeping woodsorrel	<i>Oxalis corniculata</i>
common cinquefoil	<i>Potentilla simplex</i>	crested saltbush	<i>Atriplex cristata</i>
common dandelion	<i>Taraxacum officinale</i>	crested woodfern	<i>Dryopteris cristata</i>
common dittany	<i>Cunila origanoides</i>	crippled crane fly	<i>Tipularia discolor</i>
common evening primrose	<i>Oenothera biennis</i>	crownbeard	<i>Verbesina</i> spp.
common fleabane	<i>Erigeron philadelphicus</i>	crowngrass	<i>Paspalum</i> spp.
common goldstar	<i>Hypoxis hirsuta</i>	cryptomeria	<i>Cryptomeria japonica</i>

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cucumber-tree	<i>Magnolia acuminata</i>	early meadow-rue	<i>Thalictrum dioicum</i>
cudweed	<i>Gnaphalium</i> spp.	earth loosestrife	<i>Lysimachia terrestris</i>
Culver's root	<i>Veronicastrum virginicum</i>	eastern annual saltmarsh aster	<i>Symphiotrichum subulatum</i>
cnila	<i>Cunila</i> spp.	eastern blue-eyed grass	<i>Sisyrinchium atlanticum</i>
curly dock	<i>Rumex crispus</i>	eastern cottonwood	<i>Populus deltoides</i>
curly pondweed	<i>Potamogeton crispus</i>	eastern gamagrass	<i>Tripsacum dactyloides</i>
curlyheads	<i>Clematis ochroleuca</i>	eastern grasswort	<i>Lilaeopsis chinensis</i>
currant	<i>Ribes</i> spp.	eastern hemlock	<i>Tsuga canadensis</i>
cursed buttercup	<i>Ranunculus sceleratus</i>	eastern Joe Pye weed	<i>Eupatoriadelphus dubius</i>
cutgrass	<i>Leersia</i> spp.	eastern leatherwood	<i>Dirca palustris</i>
cutleaf evening primrose	<i>Oenothera laciniata</i>	eastern marsh fern	<i>Thelypteris palustris</i>
cutleaf grapefern	<i>Botrychium dissectum</i>	eastern redbud	<i>Cercis canadensis</i>
cypress panicgrass	<i>Dichanthelium dichotomum</i>	eastern redcedar	<i>Juniperus virginiana</i>
cypress spurge	<i>Euphorbia cyparissias</i>	eastern silver aster	<i>Symphiotrichum concolor</i>
daisy fleabane	<i>Erigeron annuus</i>	eastern star sedge	<i>Carex radiata</i>
Darnel ryegrass	<i>Lolium temulentum</i>	eastern straw sedge	<i>Carex straminea</i>
dawn redwood	<i>Metasequoia glyptostroboides</i>	eastern teaberry	<i>Gaultheria procumbens</i>
dayflower	<i>Commelina</i> spp.	eastern waterleaf	<i>Hydrophyllum virginianum</i>
decodon	<i>Decodon</i> spp.	eastern white pine	<i>Pinus strobus</i>
deerberry	<i>Vaccinium stamineum</i>	ebony spleenwort	<i>Asplenium platyneuron</i>
deertongue	<i>Dichanthelium clandestinum</i>	elderberry	<i>Sambucus canadensis</i>
densetuft hairsedge	<i>Bulbostylis capillaris</i>	Elliott's goldenrod	<i>Solidago latissimifolia</i>
Deodar cedar	<i>Cedrus deodara</i>	elm	<i>Ulmus</i> spp.
Deptford pink	<i>Dianthus armeria</i>	enchanter's nightshade	<i>Circaea</i> spp.
desert false indigo	<i>Amorpha fruticosa</i>	English ivy	<i>Hedera helix</i>
devil's beggartick	<i>Bidens frondosa</i>	English oak	<i>Quercus robur</i>
devil's darning needles	<i>Clematis virginiana</i>	English plantain	<i>Plantago lanceolata</i>
devil's walkingstick	<i>Aralia spinosa</i>	erect knotweed	<i>Polygonum erectum</i>
devil's-tongue	<i>Opuntia humifusa</i>	European beech	<i>Fagus sylvatica</i>
dock	<i>Rumex</i> spp.	European birch	<i>Betula pendula</i>
dodder	<i>Cuscuta</i> spp.	European cranberrybush	<i>Viburnum opulus</i>
dogbane	<i>Apocynum</i> spp.	European gooseberry	<i>Ribes uva-crispa</i>
dogtooth violet	<i>Erythronium americanum</i>	European heliotrope	<i>Heliotropium europaeum</i>
dogwood	<i>Cornus</i> spp.	European hornbeam	<i>Carpinus betulus</i>
dotted smartweed	<i>Polygonum punctatum</i>	European larch	<i>Larix decidua</i>
doubtful knight's-spur	<i>Consolida ajacis</i>	European lily of the valley	<i>Convallaria majalis</i>
Douglas-fir	<i>Pseudotsuga menziesii</i>	European mountain ash	<i>Sorbus aucuparia</i>
dovefoot geranium	<i>Geranium molle</i>	European privet	<i>Ligustrum vulgare</i>
downy carrionflower	<i>Smilax pulverulenta</i>	European spindletree	<i>Euonymus europaeus</i>
downy goldenrod	<i>Solidago puberula</i>	European stickseed	<i>Lappula squarrosa</i>
downy milkpea	<i>Galactia volubilis</i>	evening primrose	<i>Oenothera</i> spp.
downy rattlesnake plantain	<i>Goodyera pubescens</i>	fall panicgrass	<i>Panicum dichotomiflorum</i>
downy wildrye	<i>Elymus villosus</i>	fall phlox	<i>Phlox paniculata</i>
downy yellow false foxglove	<i>Aureolaria virginica</i>	false baby's breath	<i>Galium mollugo</i>
downy yellow violet	<i>Viola pubescens</i>	false daisy	<i>Eclipta prostrata</i>
draba	<i>Draba</i> spp.	false hellebore	<i>Veratrum</i> spp.
dropseed	<i>Sporobolus</i> spp.	false indigo	<i>Amorpha</i> spp.
duckweed	<i>Lemna</i> spp.	false mannagrass	<i>Torreya chloa</i> spp.
dutchman's breeches	<i>Dicentra cucullaria</i>	false nettle	<i>Boehmeria cylindrica</i>
dutchman's pipe	<i>Aristolochia macrophylla</i>	false pennyroyal	<i>Hedeoma</i> spp.
dwarf cinquefoil	<i>Potentilla canadensis</i>	false pimpernel	<i>Lindernia</i> spp.
dwarf ginseng	<i>Panax trifolius</i>	false Solomon's seal	<i>Maianthemum racemosum</i>
dwarf huckleberry	<i>Gaylussacia dumosa</i>	false spleenwort	<i>Deparia</i> spp.
dwarf saltwort	<i>Salicornia bigelovii</i>	fern	
dwarf spikerush	<i>Eleocharis parvula</i>	fern flatsedge	<i>Cyperus filicinus</i>
dwarfdandelion	<i>Krigia</i> spp.	fernleaf yellow false foxglove	<i>Aureolaria pedicularia</i>
early azalea	<i>Rhododendron prinophyllum</i>	fescue	<i>Festuca</i> spp.
early bluegrass	<i>Poa cuspidata</i>	feverwort	<i>Triosteum perfoliatum</i>
early buttercup	<i>Ranunculus fascicularis</i>	field bindweed	<i>Convolvulus arvensis</i>

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field brome	<i>Bromus arvensis</i>	ginseng	<i>Panax spp.</i>
field chickweed	<i>Cerastium arvense</i>	globe flatsedge	<i>Cyperus echinatus</i>
field horsetail	<i>Equisetum arvense</i>	globefruit primrose-willow	<i>Ludwigia sphaerocarpa</i>
field mustard	<i>Brassica rapa</i>	glossy buckthorn	<i>Frangula alnus</i>
field pansy	<i>Viola arvensis</i>	goatgrass	<i>Aegilops spp.</i>
field paspalum	<i>Paspalum laeve</i>	goatsbeard	<i>Tragopogon spp.</i>
field pennycress	<i>Thlaspi arvense</i>	golden clover	<i>Trifolium aureum</i>
field pepperweed	<i>Lepidium campestre</i>	golden hedgehyssop	<i>Gratiola aurea</i>
field sagewort	<i>Artemisia campestris</i>	golden ragwort	<i>Packera aurea</i>
field sowthistle	<i>Sonchus arvensis</i>	goldenaster	<i>Chrysopsis spp.</i>
field thistle	<i>Cirsium discolor</i>	goldenraintrees	<i>Koeleruteria paniculata</i>
fig buttercup	<i>Ranunculus ficaria</i>	goldenrod	<i>Solidago spp.</i>
figwort	<i>Scrophularia spp.</i>	goldenseal	<i>Hydrastis canadensis</i>
fimbry	<i>Fimbristylis spp.</i>	Goldie's woodfern	<i>Dryopteris goldiana</i>
fineleaf sheep fescue	<i>Festuca filiformis</i>	goldthread	<i>Coptis spp.</i>
fir	<i>Abies spp.</i>	goosefoot	<i>Chenopodium spp.</i>
fireweed	<i>Chamerion angustifolium</i>	goosegrass	<i>Eleusine spp.</i>
fiveleaf orchid	<i>Isotria spp.</i>	grape	<i>Vitis spp.</i>
flatsedge	<i>Cyperus spp.</i>	grape hyacinth	<i>Muscari spp.</i>
flax	<i>Linum spp.</i>	grapefern	<i>Botrychium spp.</i>
flaxleaf whitetop aster	<i>Ionactis linariifolius</i>	grassleaf rush	<i>Juncus marginatus</i>
fleabane	<i>Erigeron spp.</i>	grass-like starwort	<i>Stellaria graminea</i>
floating mannagrass	<i>Glyceria septentrionalis</i>	grasswort	<i>Lilaeopsis spp.</i>
flowering dogwood	<i>Cornus florida</i>	gray birch	<i>Betula populifolia</i>
forget-me-not	<i>Myosotis spp.</i>	gray dogwood	<i>Cornus racemosa</i>
forked bluecurls	<i>Trichostema dichotomum</i>	gray poplar	<i>Populus xcanescens</i>
forked rush	<i>Juncus dichotomus</i>	great blue lobelia	<i>Lobelia siphilitica</i>
forsythia	<i>Forsythia spp.</i>	great ragweed	<i>Ambrosia trifida</i>
fountaingrass	<i>Pennisetum spp.</i>	green adder's-mouth orchid	<i>Malaxis unifolia</i>
four o'clock	<i>Mirabilis spp.</i>	green arrow arum	<i>Peltandra virginica</i>
fowl mannagrass	<i>Glyceria striata</i>	green ash	<i>Fraxinus pennsylvanica</i>
fox grape	<i>Vitis labrusca</i>	green bristlegrass	<i>Setaria viridis</i>
fox sedge	<i>Carex vulpinoidea</i>	green bulrush	<i>Scirpus atrovirens</i>
foxtail	<i>Alopecurus spp.</i>	green carpetweed	<i>Mollugo verticillata</i>
foxtail barley	<i>Hordeum jubatum</i>	green comet milkweed	<i>Asclepias viridiflora</i>
foxtail bristlegrass	<i>Setaria italica</i>	green fringed orchid	<i>Platanthera lacera</i>
foxtail sedge	<i>Carex alopecoidea</i>	Greene's rush	<i>Juncus Greenei</i>
fragrant sumac	<i>Rhus aromatica</i>	ground ivy	<i>Glechoma bederacea</i>
fringed loosestrife	<i>Lysimachia ciliata</i>	groundcherry	<i>Physalis spp.</i>
fringed orchid	<i>Platanthera spp.</i>	groundnut	<i>Apios spp.</i>
fringed sedge	<i>Carex crinita</i>	groundsel tree	<i>Baccharis halimifolia</i>
fuzzy wuzzy sedge	<i>Carex hirsutella</i>	hackberry	<i>Celtis spp.</i>
fuzzybean	<i>Strophostyles spp.</i>	hairgrass	<i>Deschampsia spp.</i>
galearis	<i>Galearis spp.</i>	hairsedge	<i>Bulbostylis spp.</i>
gall of the earth	<i>Prenanthes trifoliolata</i>	hairy cat's ear	<i>Hypochaeris radicata</i>
gamagrass	<i>Tripsacum spp.</i>	hairy crabgrass	<i>Digitaria sanguinalis</i>
garden asparagus	<i>Asparagus officinalis</i>	hairy lespedeza	<i>Lespedeza hirta</i>
garden sorrel	<i>Rumex acetosa</i>	hairy lettuce	<i>Lactuca hirsuta</i>
garden vetch	<i>Vicia sativa</i>	hairy skullcap	<i>Scutellaria elliptica</i>
garlic mustard	<i>Alliaria petiolata</i>	hairy small-leaf ticktrefoil	<i>Desmodium ciliare</i>
gentian	<i>Gentiana spp.</i>	hairy Solomon's seal	<i>Polygonatum pubescens</i>
geranium	<i>Geranium spp.</i>	hairy sunflower	<i>Helianthus hirsutus</i>
giant fescue	<i>Schedonorus giganteus</i>	hairy woodland brome	<i>Bromus pubescens</i>
giant goldenrod	<i>Solidago gigantea</i>	halberd-leaved rose mallow	<i>Hibiscus laevis</i>
giant hyssop	<i>Agastache spp.</i>	handsome Harry	<i>Rhexia virginica</i>
giant knotweed	<i>Polygonum sachalinense</i>	hard fescue	<i>Festuca brevipila</i>
giantchickweed	<i>Myosoton aquaticum</i>	hardy rubber tree	<i>Eucommia ulmoides</i>
ginkgo	<i>Ginkgo biloba</i>	harvestbells	<i>Gentiana saponaria</i>
ginkgo	<i>Ginkgo spp.</i>	hawkweed	<i>Hieracium spp.</i>

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hawthorn	<i>Crataegus spp.</i>	intermediate woodfern	<i>Dryopteris intermedia</i>
hayscented fern	<i>Dennstaedtia spp.</i>	interrupted fern	<i>Osmunda claytoniana</i>
hazel alder	<i>Alnus serrulata</i>	inundated clubmoss	<i>Lycopodiella inundata</i>
hazel dodder	<i>Cuscuta coryli</i>	iris	<i>Iris spp.</i>
hazelnut	<i>Corylus spp.</i>	ironweed	<i>Vernonia spp.</i>
heartleaf four o'clock	<i>Mirabilis nyctaginea</i>	ivy	<i>Hedera spp.</i>
heartleaf plantain	<i>Plantago cordata</i>	Jack in the pulpit	<i>Arisaema triphyllum</i>
hedge false bindweed	<i>Calystegia sepium</i>	Jacob's-ladder	<i>Polemonium spp.</i>
hedge maple	<i>Acer campestre</i>	Japanese angelica-tree	<i>Aralia elata</i>
hedgelyssop	<i>Gratiola spp.</i>	Japanese barberry	<i>Berberis thunbergii</i>
hedgenettle	<i>Stachys spp.</i>	Japanese black pine	<i>Pinus thunbergii</i>
Heller's rosette grass	<i>Dichantheium oligosanthos</i>	Japanese bristlegrass	<i>Setaria faberi</i>
helmet flower	<i>Scutellaria integrifolia</i>	Japanese honeysuckle	<i>Lonicera japonica</i>
hemlock rosette grass	<i>Dichantheium sabulorum</i>	Japanese hop	<i>Humulus japonicus</i>
hempvine	<i>Mikania spp.</i>	Japanese knotweed	<i>Polygonum cuspidatum</i>
Henbit	<i>Lamium spp.</i>	Japanese maple	<i>Acer palmatum</i>
hepatica	<i>Hepatica nobilis</i>	Japanese pachysandra	<i>Pachysandra terminalis</i>
herbwilliam	<i>Ptilimnium capillaceum</i>	Japanese snowball	<i>Viburnum plicatum</i>
hickory	<i>Carya spp.</i>	Japanese snowbell	<i>Styrax japonicus</i>
highbush blueberry	<i>Vaccinium corymbosum</i>	Japanese sophora	<i>Styphnolobium japonicum</i>
hoarypea	<i>Tephrosia spp.</i>	Japanese tree lilac	<i>Syringa reticulata</i>
hobblebush	<i>Viburnum lantanoides</i>	Japanese yew	<i>Taxus cuspidata</i>
holly	<i>Ilex spp.</i>	Japanese zelkova	<i>Zelkova serrata</i>
hollyfern	<i>Polystichum spp.</i>	Jerusalem artichoke	<i>Helianthus tuberosus</i>
hollyhock	<i>Alcea spp.</i>	Jesuit's bark	<i>Iva frutescens</i>
honewort	<i>Cryptotaenia spp.</i>	jetbead	<i>Rhodotypos scandens</i>
honeycloust	<i>Gleditsia triacanthos</i>	jewelweed	<i>Impatiens capensis</i>
honeysuckle	<i>Lonicera spp.</i>	jimsonweed	<i>Datura stramonium</i>
hooded arrowhead	<i>Sagittaria calycina</i>	Joe Pye weed	<i>Eupatoriadelphus spp.</i>
hooked bristlegrass	<i>Setaria verticillata</i>	Johnsongrass	<i>Sorghum halepense</i>
hop	<i>Humulus spp.</i>	jointed goatgrass	<i>Aegilops cylindrica</i>
hophornbeam	<i>Ostrya virginiana</i>	jointweed	<i>Polygonella spp.</i>
hoptree	<i>Ptelea spp.</i>	juniper	<i>Juniperus spp.</i>
horehound	<i>Marrubium vulgare</i>	justiceweed	<i>Eupatorium leucolepis</i>
hornwort	<i>Anthoxanthum spp.</i>	katsura tree	<i>Cercidiphyllum japonicum</i>
hornwort	<i>Ceratophyllum spp.</i>	Kentucky bluegrass	<i>Poa pratensis</i>
Horsebalm	<i>Collinsonia spp.</i>	Kentucky coffeetree	<i>Gymnocladus dioica</i>
horsechestnut	<i>Aesculus hippocastanum</i>	kingdevil	<i>Hieracium praealtum</i>
horseflyweed	<i>Baptisia tinctoria</i>	kinnikinnick	<i>Arctostaphylos uva-ursi</i>
horsetail	<i>Equisetum spp.</i>	kiss me over the garden gate	<i>Polygonum orientale</i>
horseweed	<i>Conyza spp.</i>	knight's-spur	<i>Consolida spp.</i>
hound's tongue	<i>Cynoglossum spp.</i>	kousa dogwood	<i>Cornus kousa</i>
Howell's pussytoes	<i>Antennaria howellii</i>	kudzu	<i>Pueraria montana</i>
huckleberry	<i>Gaylussacia spp.</i>	kwanzan cherry	<i>Prunus 'Kwanzan'</i>
husk tomato	<i>Physalis pubescens</i>	Labrador tea	<i>Ledum spp.</i>
hydrangea	<i>Hydrangea spp.</i>	lace grass	<i>Eragrostis capillaris</i>
hyssop	<i>Hyssopus officinalis</i>	lady's slipper	<i>Cypripedium spp.</i>
hyssop loosestrife	<i>Lythrum hyssopifolium</i>	lady's thumb	<i>Polygonum cespitosum</i>
hyssopleaf hedgenettle	<i>Stachys hyssopifolia</i>	lady's tresses	<i>Spiranthes spp.</i>
hyssopleaf thoroughwort	<i>Eupatorium hyssopifolium</i>	lambquarters	<i>Chenopodium album</i>
Illinois pinweed	<i>Lechea racemulosa</i>	lanceleaf figwort	<i>Scrophularia lanceolata</i>
Indian cucumber	<i>Medeola virginiana</i>	larch	<i>Larix spp.</i>
Indian goosegrass	<i>Eleusine indica</i>	large St. Johnswort	<i>Hypericum majus</i>
Indian paintbrush	<i>Castilleja spp.</i>	large whorled pogonia	<i>Isotria verticillata</i>
Indian strawberry	<i>Duchesnea indica</i>	large yellow loosestrife	<i>Lysimachia punctata</i>
Indiangrass	<i>Sorghastrum nutans</i>	largebracted plantain	<i>Plantago aristata</i>
Indianpipe	<i>Monotropa uniflora</i>	large-flower primrose-willow	<i>Ludwigia grandiflora</i>
Indian-tobacco	<i>Lobelia inflata</i>	late purple aster	<i>Symphyotrichum patens</i>
inkberry	<i>Ilex glabra</i>	lateflowering thoroughwort	<i>Eupatorium serotinum</i>



Common Name	Scientific Name	Common Name	Scientific Name
laurel	<i>Kalmia spp.</i>	marsh rose gentian	<i>Sabatia dodecandra</i>
lavender thrift	<i>Limonium carolinianum</i>	marsh seedbox	<i>Ludwigia palustris</i>
leafy pondweed	<i>Potamogeton foliosus</i>	marsh St. Johnswort	<i>Triadenum virginicum</i>
leather flower	<i>Clematis spp.</i>	marsh straw sedge	<i>Carex hormathodes</i>
leatherleaf	<i>Chamaedaphne calyculata</i>	marshpepper knotweed	<i>Polygonum hydropiper</i>
leathery grapefern	<i>Botrychium multifidum</i>	Maryland goldenaster	<i>Chrysopsis mariana</i>
Leggett's pinweed	<i>Lechea pulchella</i>	Maryland sanicle	<i>Sanicula marilandica</i>
lespedeza	<i>Lespedeza spp.</i>	mat sandbur	<i>Cenchrus longispinus</i>
lesser burdock	<i>Arctium minus</i>	mayapple	<i>Podophyllum peltatum</i>
lesser Canadian St. Johnswort	<i>Hypericum canadense</i>	mayflower	<i>Maianthemum spp.</i>
lesser snakeroot	<i>Ageratina aromatica</i>	meadow anemone	<i>Anemone canadensis</i>
lettuce	<i>Lactuca spp.</i>	meadow fescue	<i>Schedonorus pratensis</i>
Leyland cypress	<i>x Cupressocyparis leylandii</i>	meadow foxtail	<i>Alopecurus pratensis</i>
lilac	<i>Syringa spp.</i>	meadow garlic	<i>Allium canadense</i>
lily	<i>Lilium spp.</i>	meadow spikemoss	<i>Selaginella apoda</i>
linearleaf snapdragon	<i>Misopates orontium</i>	meadowbeauty	<i>Rhexia spp.</i>
lined sedge	<i>Carex striatula</i>	meadowparsnip	<i>Thaspium spp.</i>
little bluestem	<i>Schizachyrium scoparium</i>	meadow-rue	<i>Thalictrum spp.</i>
little evening primrose	<i>Oenothera perennis</i>	melon	<i>Cucumis spp.</i>
little lovegrass	<i>Eragrostis minor</i>	mermaidweed	<i>Proserpinaca spp.</i>
littleleaf buttercup	<i>Ranunculus abortivus</i>	Mexican muhly	<i>Muhlenbergia mexicana</i>
littleleaf linden	<i>Tilia cordata</i>	Mexican tea	<i>Chenopodium ambrosioides</i>
lizard's tail	<i>Saururus cernuus</i>	mild water pepper	<i>Polygonum hydropiperoides</i>
lobelia	<i>Lobelia spp.</i>	milk puslane	<i>Chamaesyce maculata</i>
log fern	<i>Dryopteris celsa</i>	milkpea	<i>Galactia spp.</i>
Lombardy poplar	<i>Populus nigra</i>	milkweed	<i>Asclepias spp.</i>
London planetree	<i>Platanus hybrida</i>	mimosa	<i>Albizia julibrissin</i>
longleaf summer bluet	<i>Houstonia longifolia</i>	mint	<i>Mentha spp.</i>
Long's sedge	<i>Carex longii</i>	minute duckweed	<i>Lemna perpusilla</i>
longstalk starwort	<i>Stellaria longipes</i>	misopates	<i>Misopates spp.</i>
longstyle sweetroot	<i>Osmorhiza longistylis</i>	moccasin flower	<i>Cypripedium acaule</i>
loosestrife	<i>Lythrum spp.</i>	mockernut hickory	<i>Carya alba</i>
lopsided rush	<i>Juncus secundus</i>	monkeyflower	<i>Mimulus spp.</i>
lousewort	<i>Pedicularis spp.</i>	moonseed	<i>Menispermum</i>
lovegrass	<i>Eragrostis spp.</i>	morning-glory	<i>Ipomoea spp.</i>
low rough aster	<i>Eurybia radula</i>	Morrow's honeysuckle	<i>Lonicera morrowii</i>
low spearwort	<i>Ranunculus pusillus</i>	mosquitofern	<i>Azolla spp.</i>
lowbush blueberry	<i>Vaccinium angustifolium</i>	moss	
lowland bladderfern	<i>Cystopteris protrusa</i>	moss phlox	<i>Phlox subulata</i>
lowland yellow loosestrife	<i>Lysimachia hybrida</i>	moth mullein	<i>Verbascum blattaria</i>
magnolia	<i>Magnolia spp.</i>	mountain laurel	<i>Kalmia latifolia</i>
Mahaleb cherry	<i>Prunus mahaleb</i>	mountain silverbell	<i>Halesia tetraptera</i>
maiden fern	<i>Thelypteris spp.</i>	mountainmint	<i>Pycnanthemum spp.</i>
maidenhair fern	<i>Adiantum spp.</i>	mouse-ear chickweed	<i>Cerastium fontanum</i>
maleberry	<i>Lyonia ligustrina</i>	mugwort	<i>Artemisia vulgaris</i>
mallow	<i>Malva spp.</i>	Muhlenberg's sedge	<i>Carex muehlenbergii</i>
man of the earth	<i>Ipomoea pandurata</i>	muhly	<i>Muhlenbergia spp.</i>
mannagrass	<i>Glyceria spp.</i>	mulberry	<i>Morus spp.</i>
manyspike flatsedge	<i>Cyperus polystachyos</i>	multiflora rose	<i>Rosa multiflora</i>
manzanita	<i>Arctostaphylos</i>	nailwort	<i>Paronychia spp.</i>
maple	<i>Acer spp.</i>	nannyberry	<i>Viburnum lentago</i>
mapleleaf goosefoot	<i>Chenopodium simplex</i>	Nantucket serviceberry	<i>Amelanchier nantucketensis</i>
mapleleaf viburnum	<i>Viburnum acerifolium</i>	narrowleaf bluecurls	<i>Trichostema setaceum</i>
marginal woodfern	<i>Dryopteris marginalis</i>	narrowleaf blue-eyed grass	<i>Sisyrinchium angustifolium</i>
marijuana	<i>Cannabis sativa</i>	narrowleaf cattail	<i>Typha angustifolia</i>
marsh bristlegrass	<i>Setaria parviflora</i>	narrowleaf evening primrose	<i>Oenothera fruticosa</i>
marsh cudweed	<i>Gnaphalium uliginosum</i>	narrowleaf vervain	<i>Verbena simplex</i>
marsh fimbry	<i>Fimbristylis castanea</i>	narrowleaf whitetop aster	<i>Sericocarpus linifolius</i>
marsh marigold	<i>Caltha spp.</i>	necklace sedge	<i>Carex projecta</i>

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needle spikerush	<i>Eleocharis acicularis</i>	paper mulberry	<i>Broussonetia papyrifera</i>
needlepod rush	<i>Juncus scirpoides</i>	paradise apple	<i>Malus pumila</i>
netted chainfern	<i>Woodwardia areolata</i>	Parlin's pussytoes	<i>Antennaria parlinii</i>
New England aster	<i>Symphiotrichum novae-angliae</i>	parsnip	<i>Pastinaca</i> spp.
	<i>Ceanothus americanus</i>	partridge pea	<i>Chamaecrista fasciculata</i>
New Jersey tea	<i>Symphiotrichum novi-belgii</i>	path rush	<i>Juncus tenuis</i>
New York aster	<i>Thelypteris noveboracensis</i>	pawpaw	<i>Asimina triloba</i>
New York fern	<i>Vernonia noveboracensis</i>	pea	<i>Lathyrus</i> spp.
New York ironweed	<i>Solanum</i> spp.	peach	<i>Prunus persica</i>
nightshade	<i>Muhlenbergia schreberi</i>	pearl millet	<i>Pennisetum glaucum</i>
nimblewill	<i>Festuca subverticillata</i>	pearlwort	<i>Sagina</i> spp.
nodding fescue	<i>Carduus nutans</i>	pencilflower	<i>Stylosanthes</i> spp.
nodding thistle	<i>Triphora</i> spp.	Pennsylvania bittercress	<i>Cardamine pensylvanica</i>
noddingcaps	<i>Morella pensylvanica</i>	Pennsylvania blackberry	<i>Rubus pensilvanicus</i>
northern bayberry	<i>Symphiotrichum boreale</i>	Pennsylvania buttercup	<i>Ranunculus pensylvanicus</i>
northern bog aster	<i>Lycopus uniflorus</i>	Pennsylvania sedge	<i>Carex pensylvanica</i>
northern bugleweed	<i>Viola brittoniana</i>	Pennsylvania smartweed	<i>Polygonum pensylvanicum</i>
northern coastal violet	<i>Carex folliculata</i>	pennycress	<i>Thlaspi</i> spp.
northern long sedge	<i>Adiantum pedatum</i>	pepperweed	<i>Lepidium</i> spp.
northern maidenhair	<i>Quercus rubra</i>	perennial ryegrass	<i>Lolium perenne</i>
northern red oak	<i>Lindera benzoin</i>	perennial saltmarsh aster	<i>Symphiotrichum tenuifolium</i>
northern spicebush	<i>Zizania palustris</i>	perennial wallrocket	<i>Diptotaxis tenuifolia</i>
northern wildrice	<i>Acer platanoides</i>	perfoliate bellwort	<i>Uvularia perfoliata</i>
Norway maple	<i>Acer platanoides</i> 'Crimson king'	periwinkle	<i>Vinca</i> spp.
Norway maple 'crimson king'	<i>Picea abies</i>	Peruvian dodder	<i>Cuscuta obtusiflora</i>
	<i>Potentilla norvegica</i>	Philadelphia panicgrass	<i>Panicum philadelphicum</i>
Norway spruce	<i>Cyperus rotundus</i>	phlox	<i>Phlox</i> spp.
Norwegian cinquefoil	<i>Scleria</i> spp.	phragmites	<i>Phragmites australis</i>
nutgrass	<i>Polygala nuttallii</i>	pickerelweed	<i>Pontederia cordata</i>
nutrush	<i>Desmodium nuttallii</i>	pickleweed	<i>Salicornia</i> spp.
Nuttall's milkwort	<i>Quercus</i> spp.	piedmont staggerbush	<i>Lyonia mariana</i>
Nuttall's ticktrefoil	<i>Oenothera oakesiana</i>	pignut hickory	<i>Carya glabra</i>
oak	<i>Avena</i> spp.	pigweed	<i>Amaranthus</i> spp.
Oakes' evening primrose	<i>Arrhenatherum</i> spp.	pilewort	<i>Erechtites hieraciifolia</i>
oat	<i>Danthonia</i> spp.	pimpernel	<i>Anagallis</i> spp.
oatgrass	<i>Physostegia virginiana</i>	pin cherry	<i>Prunus pensylvanica</i>
oatgrass	<i>Oldenlandia</i> spp.	pin oak	<i>Quercus palustris</i>
obedient plant	<i>Schoenoplectus americanus</i>	pine	<i>Pinus</i> spp.
oldenlandia	<i>Orobancha uniflora</i>	pine barren flatsedge	<i>Cyperus retrorsus</i>
olney threesquare	<i>Allium</i> spp.	pine barren stitchwort	<i>Minuartia caroliniana</i>
oneflowered broomrape	<i>Papaver somniferum</i>	pinemap	<i>Monotropa hypopithys</i>
onion	<i>Hemerocallis fulva</i>	pink azalea	<i>Rhododendron periclymenoides</i>
opium poppy	<i>Polygala lutea</i>		<i>Strophostyles umbellata</i>
orange daylily	<i>Dactylis glomerata</i>	pink fuzzybean	<i>Lechea</i> spp.
orange milkwort	<i>Maclura pomifera</i>	pinweed	<i>Chimaphila umbellata</i>
orchardgrass	<i>Osmunda</i> spp.	piptsissewa	<i>Pinus rigida</i>
osage orange	<i>Polygonum arenastrum</i>	pitch pine	<i>Chenopodium berlandieri</i>
osmunda	<i>Eleocharis ovata</i>	pitseed goosefoot	<i>Plantago</i> spp.
oval-leaf knotweed	<i>Quercus lyrata</i>	plantain	<i>Hosta</i>
ovate spikerush	<i>Leucanthemum vulgare</i>	plantain lily	<i>Polygonum tenue</i>
overcup oak	<i>Torreyochloa pallida</i>	pleatleaf knotweed	<i>Cyperus plukenetii</i>
oxeye daisy	<i>Polygonum lapathifolium</i>	Plukenet's flatsedge	<i>Prunus</i> spp.
pale false mannagrass	<i>Impatiens pallida</i>	plum	<i>Desmodium glutinosum</i>
pale smartweed	<i>Platanthera flava</i>	pointedleaf ticktrefoil	<i>Toxicodendron radicans</i>
pale touch-me-not	<i>Panicum</i> spp.	Poison ivy	<i>Toxicodendron vernix</i>
palegreen orchid	<i>Desmodium paniculatum</i>	poison sumac	<i>Polygala</i> spp.
panicgrass	<i>Betula papyrifera</i>	polygala	<i>Polypodium</i> spp.
panicledleaf ticktrefoil		polypody	<i>Callitriche stagnalis</i>
paper birch		pond water-starwort	

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pond-lily	<i>Nuphar spp.</i>	red chokeberry	<i>Photinia pyrifolia</i>
pondweed	<i>Potamogeton spp.</i>	red clover	<i>Trifolium pratense</i>
pondweed	<i>Stuckenia spp.</i>	red columbine	<i>Aquilegia canadensis</i>
poorjoe	<i>Diodia teres</i>	red fescue	<i>Festuca rubra</i>
poorland flatsedge	<i>Cyperus compressus</i>	red goosefoot	<i>Chenopodium rubrum</i>
poor-man's-pepper	<i>Lepidium virginicum</i>	red hickory	<i>Carya ovalis</i>
poppy	<i>Papaver spp.</i>	red maple	<i>Acer rubrum</i>
porcelain-berry	<i>Ampelopsis brevipedunculata</i>	red milkweed	<i>Asclepias rubra</i>
possumhaw	<i>Viburnum nudum</i>	red mulberry	<i>Morus rubra</i>
post oak	<i>Quercus stellata</i>	red pine	<i>Pinus resinosa</i>
poverty brome	<i>Bromus sterilis</i>	red spruce	<i>Picea rubens</i>
poverty dropseed	<i>Sporobolus vaginiflorus</i>	redsier dogwood	<i>Cornus sericea</i>
poverty oatgrass	<i>Danthonia spicata</i>	redring milkweed	<i>Asclepias variegata</i>
prairie cordgrass	<i>Spartina pectinata</i>	redstem stork's bill	<i>Erodium cicutarium</i>
prairie sunflower	<i>Helianthus petiolaris</i>	redtop	<i>Agrostis gigantea</i>
prairie threeawn	<i>Aristida oligantha</i>	redtop panicgrass	<i>Panicum rigidulum</i>
prickly lettuce	<i>Lactuca serriola</i>	reed	<i>Phragmites spp.</i>
pricklyash	<i>Zanthoxylum spp.</i>	reedgrass	<i>Calamagrostis spp.</i>
pricklypear	<i>Opuntia spp.</i>	reflexed sedge	<i>Carex retroflexa</i>
primrose-willow	<i>Ludwigia spp.</i>	rhododendron	<i>Rhododendron spp.</i>
prince's pine	<i>Chimaphila spp.</i>	rice cutgrass	<i>Leersia oryzoides</i>
princesstree	<i>Paulownia tomentosa</i>	ridged yellow flax	<i>Linum striatum</i>
privet	<i>Ligustrum spp.</i>	river birch	<i>Betula nigra</i>
prostrate knotweed	<i>Polygonum aviculare</i>	riverbank wildrye	<i>Elymus riparius</i>
prostrate pigweed	<i>Amaranthus albus</i>	roadside pepperweed	<i>Lepidium ruderae</i>
prostrate ticktrefoil	<i>Desmodium rotundifolium</i>	rock polypody	<i>Polypodium virginianum</i>
purple bergamot	<i>Monarda media</i>	rose	<i>Rosa spp.</i>
purple chokeberry	<i>Photinia floribunda</i>	rose gentian	<i>Sabatia spp.</i>
purple gerardia	<i>Agalinis purpurea</i>	rose mallow	<i>Hibiscus moscheutos</i>
purple loosestrife	<i>Lythrum salicaria</i>	rose moss	<i>Portulaca grandiflora</i>
purple lovegrass	<i>Eragrostis spectabilis</i>	rose of Plymouth	<i>Sabatia stellaris</i>
purple meadowparsnip	<i>Thaspium trifoliatum</i>	rose of Sharon	<i>Hibiscus syriacus</i>
purple milkweed	<i>Asclepias purpurascens</i>	rosepink	<i>Sabatia angularis</i>
purple sandgrass	<i>Triplasis purpurea</i>	rosette grass	<i>Dichanthelium spp.</i>
purpleleaf plum	<i>Prunus cerasifera</i>	rotala	<i>Rotala spp.</i>
purple-head sneezeweed	<i>Helenium flexuosum</i>	rough avens	<i>Geum laciniatum</i>
purplestem aster	<i>Symphotrichum puniceum</i>	rough barnyardgrass	<i>Echinochloa muricata</i>
purplestem beggarticks	<i>Bidens connata</i>	rough bentgrass	<i>Agrostis scabra</i>
purpletop tridens	<i>Tridens flavus</i>	rough bluegrass	<i>Poa trivialis</i>
purslane	<i>Portulaca spp.</i>	rough boneset	<i>Eupatorium pilosum</i>
pussy willow	<i>Salix discolor</i>	roughfruit amaranth	<i>Amaranthus tuberculatus</i>
pussytoes	<i>Antennaria spp.</i>	rough-fruited cinquefoil	<i>Potentilla recta</i>
quackgrass	<i>Elymus repens</i>	roundhead lespedeza	<i>Lespedeza capitata</i>
quaking aspen	<i>Populus tremuloides</i>	roundleaf greenbrier	<i>Smilax rotundifolia</i>
Queen Anne's lace	<i>Daucus carota</i>	roundleaf thoroughwort	<i>Eupatorium rotundifolium</i>
queendevil	<i>Hieracium gronovii</i>	roundleaf yellow violet	<i>Viola rotundifolia</i>
quill sedge	<i>Carex tenera</i>	roundseed panicgrass	<i>Dichanthelium sphaerocarpon</i>
rabbitfoot clover	<i>Trifolium arvense</i>	royal fern	<i>Osmunda regalis</i>
radish	<i>Raphanus spp.</i>	rue anemone	<i>Thalictrum thalictroides</i>
ragged robin	<i>Lychnis flos-cuculi</i>	rush	<i>Juncus spp.</i>
ragweed	<i>Ambrosia spp.</i>	Russian olive	<i>Elaeagnus angustifolia</i>
ragwort	<i>Packera spp.</i>	Russian thistle	<i>Salsola kali</i>
rare clubmoss	<i>Lycopodium obscurum</i>	rye	<i>Secale spp.</i>
rattlebox	<i>Crotalaria spp.</i>	rye brome	<i>Bromus secalinus</i>
rattlesnake fern	<i>Botrychium virginianum</i>	ryegrass	<i>Lolium spp.</i>
rattlesnake mannagrass	<i>Glyceria canadensis</i>	sagebrush	<i>Artemisia spp.</i>
rattlesnakemaster	<i>Eryngium aquaticum</i>	saline saltbush	<i>Atriplex subspicata</i>
rattlesnakeroot	<i>Prenanthes spp.</i>	saltbush	<i>Atriplex spp.</i>
rattlesnakeweed	<i>Hieracium venosum</i>	saltgrass	<i>Distichlis spicata</i>

Common Name	Scientific Name	Common Name	Scientific Name
saltmarsh alkaligrass	<i>Puccinellia fasciculata</i>	sixweeks fescue	<i>Vulpia octoflora</i>
salt-marsh bulrush	<i>Schoenoplectus robustus</i>	skullcap	<i>Scutellaria spp.</i>
saltmarsh false foxglove	<i>Agalinis maritima</i>	skullcap speedwell	<i>Veronica scutellata</i>
saltmeadow cordgrass	<i>Spartina patens</i>	skunk cabbage	<i>Symplocarpus foetidus</i>
saltmeadow rush	<i>Juncus gerardii</i>	sleepydick	<i>Ornithogalum umbellatum</i>
sand bittercress	<i>Cardamine parviflora</i>	slender blue iris	<i>Iris prismatica</i>
sandbar willow	<i>Salix interior</i>	slender bunchflower	<i>Veratrum latifolium</i>
sandbur	<i>Cenchrus spp.</i>	slender crabgrass	<i>Digitaria filiformis</i>
sanddune sandbur	<i>Cenchrus tribuloides</i>	slender fimbry	<i>Fimbristylis autumnalis</i>
sandgrass	<i>Triplasis spp.</i>	slender flatsedge	<i>Cyperus bipartitus</i>
sandhill thistle	<i>Cirsium repandum</i>	slender nutrush	<i>Scleria minor</i>
sandmat	<i>Chamaesyce spp.</i>	slender rose gentian	<i>Sabatia campanulata</i>
sandspurry	<i>Spergularia spp.</i>	slender sowthistle	<i>Sonchus tenerrimus</i>
sanicle	<i>Sanicula spp.</i>	slender woodoats	<i>Chasmanthium laxum</i>
sarsaparilla	<i>Smilax aristolochiifolia</i>	slender yellow woodsorrel	<i>Oxalis dillenii</i>
sassafras	<i>Sassafras albidum</i>	slimleaf panicgrass	<i>Dichantherium linearifolium</i>
saucer magnolia	<i>Magnolia x soulangiana</i>	slimspike threeawn	<i>Aristida longespica</i>
sawbrier	<i>Smilax glauca</i>	slippery elm	<i>Ulmus rubra</i>
sawgrass	<i>Cladium spp.</i>	small pondweed	<i>Potamogeton pusillus</i>
sawtooth oak	<i>Quercus acutissima</i>	smallflower sweetbrier	<i>Rosa micrantha</i>
scarlet Indian paintbrush	<i>Castilleja coccinea</i>	smartweed	<i>Polygonum spp.</i>
scarlet oak	<i>Quercus coccinea</i>	smartweed dodder	<i>Cuscuta polygonorum</i>
scarlet pimpernel	<i>Anagallis arvensis</i>	smooth beggartick	<i>Bidens laevis</i>
Scots pine	<i>Pinus sylvestris</i>	smooth blue aster	<i>Symphyotrichum laeve</i>
sea lavender	<i>Limonium spp.</i>	smooth brome	<i>Bromus inermis</i>
searocket	<i>Cakile spp.</i>	smooth carrionflower	<i>Smilax herbacea</i>
seaside brookweed	<i>Samolus valerandi</i>	smooth cordgrass	<i>Spartina alterniflora</i>
seaside goldenrod	<i>Solidago sempervirens</i>	smooth crabgrass	<i>Digitaria ischaemum</i>
seaside spurge	<i>Chamaesyce polygonifolia</i>	smooth forked nailwort	<i>Paronychia canadensis</i>
seaside threeawn	<i>Aristida tuberculosa</i>	smooth sawgrass	<i>Cladium mariscoides</i>
sedge	<i>Carex spp.</i>	smooth Solomon's seal	<i>Polygonatum biflorum</i>
seedbox	<i>Ludwigia alternifolia</i>	smooth sumac	<i>Rhus glabra</i>
seepweed	<i>Suaeda spp.</i>	smooth ticktrefoil	<i>Desmodium laevigatum</i>
senna	<i>Senna spp.</i>	smooth winterberry	<i>Ilex laevigata</i>
sensitive fern	<i>Onoclea sensibilis</i>	snailseed pondweed	<i>Potamogeton bicupulatus</i>
serviceberry	<i>Amelanchier spp.</i>	snakeroot	<i>Ageratina spp.</i>
sesame	<i>Sesamum orientale</i>	snowberry	<i>Gaultheria spp.</i>
sessileleaf bellwort	<i>Uvularia sessilifolia</i>	snowberry	<i>Symphoricarpos spp.</i>
shagbark hickory	<i>Carya ovata</i>	soft rush	<i>Juncus effusus</i>
shallow sedge	<i>Carex lurida</i>	Solomon's seal	<i>Polygonatum spp.</i>
sharpwing monkeyflower	<i>Mimulus alatus</i>	sorghum	<i>Sorghum bicolor</i>
sheep laurel	<i>Kalmia angustifolia</i>	southern bog clubmoss	<i>Lycopodiella appressa</i>
shepherd's purse	<i>Capsella bursa-pastoris</i>	southern magnolia	<i>Magnolia grandiflora</i>
shingle oak	<i>Quercus imbricaria</i>	southern red oak	<i>Quercus falcata</i>
shining clubmoss	<i>Huperzia lucidula</i>	southern woodland violet	<i>Viola hirsutula</i>
shore little bluestem	<i>Schizachyrium littorale</i>	sowthistle	<i>Sonchus spp.</i>
shortawn foxtail	<i>Alopecurus aequalis</i>	speargrass	<i>Piptochaetium spp.</i>
shortleaf pine	<i>Pinus echinata</i>	speckled alder	<i>Alnus incana</i>
showy orchid	<i>Galearis spectabilis</i>	speedwell	<i>Veronica spp.</i>
showy skullcap	<i>Scutellaria serrata</i>	spiderwort	<i>Tradescantia spp.</i>
shrubby cinquefoil	<i>Dasiphora fruticosa</i>	spikemoss	<i>Selaginella spp.</i>
Siberian elm	<i>Ulmus pumila</i>	spikerush	<i>Eleocharis spp.</i>
sidebeak pencilflower	<i>Stylosanthes biflora</i>	spindle tree	<i>Euonymus spp.</i>
Siebold's viburnum	<i>Viburnum sieboldii</i>	spineless hornwort	<i>Ceratophyllum echinatum</i>
silky dogwood	<i>Cornus amomum</i>	spiney glasswort	<i>Salicornia depressa</i>
silver maple	<i>Acer saccharinum</i>	spinulose woodfern	<i>Dryopteris carthusiana</i>
silverleaf linden	<i>Tilia tomentosa</i>	spirea	<i>Spiraea spp.</i>
silverrod	<i>Solidago bicolor</i>	spleenwort	<i>Asplenium spp.</i>
silvery sedge	<i>Carex canescens</i>	spoonleaf purple everlasting	<i>Gamochaeta purpurea</i>

Common Name	Scientific Name	Common Name	Scientific Name
spotted Joe Pye weed	<i>Eupatoriadelphus maculatus</i>	sweetgrass	<i>Hierochloa odorata</i>
spotted knapweed	<i>Centaurea</i>	sweetgum	<i>Liquidambar styraciflua</i>
spotted pondweed	<i>Potamogeton pulcher</i>	sweetroot	<i>Osmorhiza</i> spp.
spotted wintergreen	<i>Chimaphila maculata</i>	sweetscented Joe Pye weed	<i>Eupatorium purpureum</i>
spreading dogbane	<i>Apocynum androsaemifolium</i>	switchgrass	<i>Panicum virgatum</i>
spring avens	<i>Geum vernum</i>	sycamore maple	<i>Acer pseudoplatanus</i>
spring forget-me-not	<i>Myosotis verna</i>	tall blue lettuce	<i>Lactuca biennis</i>
springbeauty	<i>Claytonia</i> spp.	tall buttercup	<i>Ranunculus acris</i>
spruce	<i>Picea</i> spp.	tall fescue	<i>Schedonorus phoenix</i>
spurge	<i>Euphorbia</i> spp.	tall lespedeza	<i>Lespedeza stuevei</i>
squarestem spikerush	<i>Eleocharis quadrangulata</i>	tall meadow-rue	<i>Thalictrum pubescens</i>
squarrose sedge	<i>Carex squarrosa</i>	tall morning-glory	<i>Ipomoea purpurea</i>
squash	<i>Cucurbita</i> spp.	tall oatgrass	<i>Arrhenatherum elatius</i>
St. Andrew's cross	<i>Hypericum hypericoides</i>	tall rattlesnakeroot	<i>Prenanthes altissima</i>
St. Anthony's turnip	<i>Ranunculus bulbosus</i>	tall thimbleweed	<i>Anemone virginiana</i>
St. Johnswort	<i>Hypericum</i> spp.	tall thistle	<i>Cirsium altissimum</i>
staggerbush	<i>Lyonia</i> spp.	tamarack	<i>Larix laricina</i>
staghorn sumac	<i>Rhus typhina</i>	tapered rosette grass	<i>Dichanthelium acuminatum</i>
star magnolia	<i>Magnolia stellata</i>	taperleaf water horehound	<i>Lycopus rubellus</i>
star of Bethlehem	<i>Ornithogalum</i> spp.	tapertip rush	<i>Juncus acuminatus</i>
stargrass	<i>Cynodon plectostachyus</i>	Tatarian honeysuckle	<i>Lonicera tatarica</i>
star-grass	<i>Hypoxis</i> spp.	tawny cottongrass	<i>Eriophorum virginicum</i>
starry false lily of the valley	<i>Maianthemum stellatum</i>	terrestrial water-starwort	<i>Callitriche terrestris</i>
starved panicgrass	<i>Dichanthelium depauperatum</i>	thicket sedge	<i>Carex abscondita</i>
starwort	<i>Stellaria</i> spp.	Thickseed sunflower	<i>Bidens coronata</i>
steeplebush	<i>Spiraea tomentosa</i>	thimbleberry	<i>Rubus parviflorus</i>
sticky catchfly	<i>Silene caroliniana</i>	thin paspalum	<i>Paspalum setaceum</i>
stiff cowbane	<i>Oxypolis rigidior</i>	thistle	<i>Cirsium</i> spp.
stiff ticktrefoil	<i>Desmodium obtusum</i>	thoroughwort	<i>Eupatorium</i> spp.
stiff yellow flax	<i>Linum medium</i>	threadleaf crowfoot	<i>Ranunculus trichophyllus</i>
stinging nettle	<i>Urtica dioica</i>	threadleaf false foxglove	<i>Agalinis setacea</i>
stitchwort	<i>Minuartia</i> spp.	threeawn	<i>Aristida</i> spp.
stork's bill	<i>Erodium</i> spp.	threebirds	<i>Triphora trianthophora</i>
strawberry	<i>Fragaria</i> spp.	threeleaf goldthread	<i>Coptis trifolia</i>
strawcolored flatsedge	<i>Cyperus strigosus</i>	threeleaf beggarticks	<i>Bidens tripartita</i>
striped maple	<i>Acer pensylvanicum</i>	threepetal bedstraw	<i>Galium trifidum</i>
sugar maple	<i>Acer saccharum</i>	threeleaf mercury	<i>Acalypha</i> spp.
sumac	<i>Rhus</i> spp.	threeleaf sedge	<i>Dulichium arundinaceum</i>
summer grape	<i>Vitis aestivalis</i>	thymeleaf pinweed	<i>Lechea minor</i>
sunflower	<i>Helianthus</i> spp.	thymeleaf speedwell	<i>Veronica serpyllifolia</i>
swamp azalea	<i>Rhododendron viscosum</i>	ticktrefoil	<i>Desmodium</i> spp.
swamp cottonwood	<i>Populus heterophylla</i>	tidalmarsh amaranth	<i>Amaranthus cannabinus</i>
swamp doghobble	<i>Eubotrys racemosa</i>	timothy	<i>Phleum pratense</i>
swamp loosestrife	<i>Decodon verticillatus</i>	tiny vetch	<i>Vicia hirsuta</i>
swamp lousewort	<i>Pedicularis lanceolata</i>	tipularia	<i>Tipularia</i> spp.
swamp milkweed	<i>Asclepias incarnata</i>	toad rush	<i>Juncus bufonius</i>
swamp sunflower	<i>Helianthus angustifolius</i>	toadflax	<i>Nuttallanthus</i> spp.
swamp verbena	<i>Verbena hastata</i>	toothed whitetop aster	<i>Sericocarpus asteroides</i>
swamp white oak	<i>Quercus bicolor</i>	Torrey's mountainmint	<i>Pycnanthemum torrei</i>
swamppink	<i>Helonias bullata</i>	touch-me-not	<i>Impatiens</i> spp.
Swan's sedge	<i>Carex swanii</i>	trailing arbutus	<i>Epigaea repens</i>
sweet cherry	<i>Prunus avium</i>	tree of heaven	<i>Ailanthus altissima</i>
sweet fern	<i>Comptonia peregrina</i>	tridens	<i>Tridens</i> spp.
sweet mock orange	<i>Philadelphus coronarius</i>	trident maple	<i>Acer buergerianum</i>
sweet pepperbush	<i>Clethra alnifolia</i>	trillium	<i>Trillium</i> spp.
sweet vernalgrass	<i>Anthoxanthum odoratum</i>	true forget-me-not	<i>Myosotis scorpioides</i>
sweet woodreed	<i>Cinna arundinacea</i>	trumpet creeper	<i>Campsis radicans</i>
sweetbay	<i>Magnolia virginiana</i>	trumpet honeysuckle	<i>Lonicera sempervirens</i>
sweetflag	<i>Acorus americanus</i>	trumpetweed	<i>Eupatoriadelphus fistulosus</i>

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tuberous grasspink	<i>Calopogon tuberosus</i>	wavy hairgrass	<i>Deschampsia flexuosa</i>
tufted hairgrass	<i>Deschampsia cespitosa</i>	waxflower shinleaf	<i>Pyrola elliptica</i>
tufted loosestrife	<i>Lysimachia thyrsiflora</i>	waxweed	<i>Cuphea</i> spp.
tufted lovegrass	<i>Eragrostis pectinacea</i>	waxyleaf meadow-rue	<i>Thalictrum revolutum</i>
tuliptree	<i>Liriodendron tulipifera</i>	wayfaringtree	<i>Viburnum lantana</i>
Turkish hazelnut	<i>Corylus colurna</i>	weak stellate sedge	<i>Carex seorsa</i>
turk's-cap lily	<i>Lilium superbum</i>	weeping alkaligrass	<i>Puccinellia distans</i>
turtlehead	<i>Chelone</i> spp.	weeping Higan cherry	<i>Prunus subhirtella</i>
tussock sedge	<i>Carex stricta</i>	weeping willow	<i>Salix × sepulcralis</i>
twoflower dwarfdandelion	<i>Krigia biflora</i>	western brackenfern	<i>Pteridium aquilinum</i>
umbrella flatsedge	<i>Cyperus diandrus</i>	western vervain	<i>Verbena lasiostachys</i>
umbrella-sedge	<i>Fuirena</i> spp.	western waterweed	<i>Elodea nuttallii</i>
upland bentgrass	<i>Agrostis perennans</i>	wheat	<i>Triticum</i> spp.
valdivia duckweed	<i>Lemna valdiviana</i>	wheatgrass	<i>Thinopyrum</i> spp.
variable panicgrass	<i>Dichanthelium commutatum</i>	whip nutrush	<i>Scleria triglomerata</i>
velvet panicum	<i>Dichanthelium scoparium</i>	white ash	<i>Fraxinus americana</i>
velvet sedge	<i>Carex vestita</i>	white avens	<i>Geum canadense</i>
velvetgrass	<i>Holcus</i> spp.	white baneberry	<i>Actaea pachypoda</i>
vernal water-starwort	<i>Callitriche palustris</i>	white clover	<i>Trifolium repens</i>
veronicastrum	<i>Veronicastrum</i> spp.	white colicroot	<i>Aletris farinosa</i>
vervain	<i>Verbena</i> spp.	white fire	<i>Abies concolor</i>
vetch	<i>Vicia</i> spp.	white fringed orchid	<i>Platanthera blephariglottis</i>
viburnum	<i>Viburnum</i> spp.	white heath aster	<i>Symphyotrichum ericoides</i>
violet	<i>Viola</i> spp.	white meadowsweet	<i>Spiraea alba</i>
violet lespedeza	<i>Lespedeza violacea</i>	white mulberry	<i>Morus alba</i>
violet woodsorrel	<i>Oxalis violacea</i>	white oak	<i>Quercus alba</i>
viper's bugloss	<i>Echium</i> spp.	white panicle aster	<i>Symphyotrichum lanceolatum</i>
Virginia bunchflower	<i>Veratrum virginicum</i>	white poplar	<i>Populus alba</i>
Virginia chainfern	<i>Woodwardia virginica</i>	white snakeroot	<i>Ageratina altissima</i>
Virginia creeper	<i>Parthenocissus quinquefolia</i>	white turtlehead	<i>Chelone glabra</i>
Virginia dwarfdandelion	<i>Krigia virginica</i>	white vervain	<i>Verbena urticifolia</i>
Virginia groundcherry	<i>Physalis virginiana</i>	white wallrocket	<i>Diplotaxis eruroides</i>
Virginia iris	<i>Iris virginica</i>	white willow	<i>Salix alba</i>
Virginia knotweed	<i>Polygonum virginianum</i>	white wood aster	<i>Eurybia divaricata</i>
Virginia pine	<i>Pinus virginiana</i>	whitegrass	<i>Leersia virginica</i>
Virginia rose	<i>Rosa virginiana</i>	whitemouth dayflower	<i>Commelina erecta</i>
Virginia snakeroot	<i>Aristolochia serpentaria</i>	whitetinge sedge	<i>Carex albicans</i>
Virginia spiderwort	<i>Tradescantia virginiana</i>	whitetop	<i>Cardaria draba</i>
Virginia springbeauty	<i>Claytonia virginica</i>	whitetop	<i>Doellingeria</i> spp.
Virginia tephrosia	<i>Tephrosia virginiana</i>	whitetop aster	<i>Sericocarpus</i> spp.
Virginia water horehound	<i>Lycopus virginicus</i>	whorled milkweed	<i>Asclepias verticillata</i>
Virginia wildrye	<i>Elymus virginicus</i>	whorled mountainmint	<i>Pycnanthemum verticillatum</i>
wallrocket	<i>Diplotaxis</i> spp.	whorled wood aster	<i>Oclemena acuminata</i>
walnut	<i>Juglans</i> spp.	widelip orchid	<i>Liparis</i> spp.
warm season grass		wild bergamot	<i>Monarda fistulosa</i>
warty panicgrass	<i>Panicum verrucosum</i>	wild carrot	<i>Daucus</i> spp.
water hyacinth	<i>Eichhornia crassipes</i>	wild chervil	<i>Anthriscus sylvestris</i>
water knotweed	<i>Polygonum amphibium</i>	wild comfrey	<i>Cynoglossum virginianum</i>
water mannagrass	<i>Glyceria fluitans</i>	wild cucumber	<i>Echinocystis lobata</i>
water sedge	<i>Carex aquatilis</i>	wild garlic	<i>Allium vineale</i>
water speedwell	<i>Veronica anagallis-aquatica</i>	wild geranium	<i>Geranium maculatum</i>
watercress	<i>Nasturtium officinale</i>	wild indigo	<i>Baptisia</i> spp.
waterhorehound	<i>Lycopus</i> spp.	wild parsnip	<i>Pastinaca sativa</i>
waterlily	<i>Nymphaea</i> spp.	wild radish	<i>Raphanus raphanistrum</i>
watermelon	<i>Citrullus lanatus</i>	wild strawberry	<i>Fragaria virginiana</i>
watermoss	<i>Salvinia</i> spp.	wild yam	<i>Dioscorea villosa</i>
waterplantain spearwort	<i>Ranunculus ambigens</i>	wildrice	<i>Zizania</i> spp.
water-starwort	<i>Callitriche</i> spp.	wildrye	<i>Elymus</i> spp.
waterthread pondweed	<i>Potamogeton diversifolius</i>	willow	<i>Salix</i> spp.

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willow dock	<i>Rumex salicifolius</i>		
willow oak	<i>Quercus phellos</i>		
willowherb	<i>Epilobium</i> spp.		
wineberry	<i>Rubus phoenicolasius</i>		
winged sumac	<i>Rhus copallinum</i>		
wingstem	<i>Verbesina alternifolia</i>		
winter bentgrass	<i>Agrostis hyemalis</i>		
winter creeper	<i>Euonymus fortunei</i>		
Wintergreen	<i>Pyrola</i> spp.		
Wisteria	<i>Wisteria</i> spp.		
Witchgrass	<i>Panicum capillare</i>		
Witchhazel	<i>Hamamelis</i> spp.		
woman's tobacco	<i>Antennaria plantaginifolia</i>		
wood anemone	<i>Anemone quinquefolia</i>		
wood lily	<i>Lilium philadelphicum</i>		
Woodfern	<i>Dryopteris</i> spp.		
woodland bulrush	<i>Scirpus expansus</i>		
woodland muhly	<i>Muhlenbergia sylvatica</i>		
woodland strawberry	<i>Fragaria vesca</i>		
woodland sunflower	<i>Helianthus divaricatus</i>		
Woodoats	<i>Chasmanthium</i> spp.		
Woodreed	<i>Cinna</i> spp.		
Woodsorrel	<i>Oxalis</i> spp.		
Woolgrass	<i>Scirpus cyperinus</i>		
woolly beachheather	<i>Hudsonia tomentosa</i>		
Yam	<i>Dioscorea</i> spp.		
Yarrow	<i>Achillea</i> spp.		
yellow birch	<i>Betula alleghaniensis</i>		
yellow flatsedge	<i>Cyperus flavescens</i>		
yellow fringed orchid	<i>Platanthera ciliaris</i>		
yellow giant hyssop	<i>Agastache nepetoides</i>		
yellow loosestrife	<i>Lysimachia</i> spp.		
yellow marsh marigold	<i>Caltha palustris</i>		
yellow nutsedge	<i>Cyperus esculentus</i>		
yellow pond-lily	<i>Nuphar lutea</i>		
yellow thistle	<i>Cirsium horridulum</i>		
yellow water buttercup	<i>Ranunculus flabellaris</i>		
yellowseed false pimpernel	<i>Lindernia dubia</i>		
Yellowwood	<i>Cladrastis kentukea</i>		
Yew	<i>Taxus</i> spp.		
yoshino cherry	<i>Prunus</i> × <i>yedoensis</i>		
Yucca	<i>Yucca</i> spp.		