

**PROPOSAL FOR SILVICULTURAL ACTIVITY
ON STATE FOREST AND PARK LANDS
NEW JERSEY FOREST SERVICE**

August 22, 2022

Application #: 2007-0318.001

I. Site Identification:

- a. Location: Bass River State Forest
- b. Stand Designation: Allen & Oswego Road Fire Mitigation & Habitat Restoration
- c. Townships: Bass River Township and Little Egg Harbor Township
- d. Counties: Burlington County and Ocean County
- e. Block(s)/Lot(s)
Road Maintenance/Firebreak: See Additional Pages Below.
Forest Management: See Additional Pages Below.

II. Descriptive Information:

- a. Purpose: Wildfire strategic risk reduction through firebreak installation and silvicultural thinning with maintenance of forest canopy to prevent stand replacing wildfire and increase forest health, in addition to forestry thinning and mowing for fuelbreak establishment and the promotion of local wildlife habitat restoration.
- b. Size of Activity: *Road Maintenance/Firebreak: 78 acres*
Forest Management: 1,305 acres
- c. Activity: Firebreak installation and road maintenance (re-grading, etc.), silvicultural thinning in adjacent pine dominated uplands, and silvicultural thinning for habitat restoration forestry in pine-shrub oak uplands.
- d. Soils: Atsion Sands (AtsaA, AtshA), Downer loamy Sands (DocB), Fluvaquents (FmgAt), Lakehurst Sands (LakB, LakhB), Lakewood Sands (LasB), Manahawkin muck (MakAt), Woodstown loamy Sand (WodhB), Woodmansie Sand (WobB, WobC, WobhB, WobmB).

III. Site Description:

The project has two main activities, (1) road maintenance/firebreak installation, and (2) silvicultural thinning, and forestry thinning and mowing for wildlife habitat restoration. The first activity involves firebreak installation and road maintenance for two roads, Allen Road and Oswego Road. The Allen Road firebreak/road maintenance area runs north to the property line shared with the Warren Grove Gunnery Range and south to the intersection of Stage Road (approximately five miles). However, tree removal activities will only occur to the north of Bartlett's Branch Bridge, whereas south of the bridge to Stage Road will include road maintenance activities only. The Oswego Road firebreak/road maintenance area runs west from the intersection of Allen Road nearly to Cutts Road and east from the Allen Road intersection to County Route 539 (approximately eight miles). The second main activity (forest

management) which involves silvicultural thinning and forestry thinning and mowing for wildlife habitat restoration will primarily occur in the forest between Coal Road to the east and Shamong Road/Martha Road to the west. Allen Road and Oswego Road are municipally owned rights-of-way, and there is no right-of way ownership information to the contrary that we are aware of. Tree removal is proposed within and outside of the rights-of-way for the two different treatments of (1) firebreak creation and (2) forest thinning. For ease of explanation, this activity area is outlined in greater detail within the attached treatment map.

Both main activities occur within two native forest types according to the Pinelands Comprehensive Management Plan (CMP), the pine dominated forest type and the pine-shrub oak forest type. Forest inventory data collection was performed in both forest types of the activity areas, in addition to the specific areas on either side of Allen Road between 2018 and 2019, with current 2022 data simulated through the Forest Vegetation Simulator (FVS). The pine dominated forest type contains approximately 2,075 trees per acre (1,752 trees per acre under two inches in DBH) with an overall average tree height of 46 feet. Basal area within this forest type is approximately 135 ft² per acre with a quadratic mean diameter (QMD) of 3.5 inches (including understory trees), the QMD including only overstory trees (four inches in DBH and above) was approximately 6.8 inches. Nearly 40% of the overall basal area within the pine dominated forest type comes from trees less than two inches in DBH. The pine dominated forest type also has a canopy cover of approximately 68%. The pine-shrub oak forest type contains approximately 1,940 trees per acre (1,774 trees under two inches in DBH) with an overall average tree height of about 49 feet. Basal area within this forest type is approximately 116 ft² per acre with a QMD of 3.3 inches (including understory trees), the QMD including only overstory trees (four inches in DBH and above) is approximately 8.9 inches. Nearly 39% of the overall basal area within the pine-shrub oak forest type comes from trees less than two inches in DBH. This forest type has a canopy cover of approximately 74%. Forest attributes for the area specifically on either side of Allen Road (portions of both forest types) include approximately 438 trees per acre, 99 ft² per acre of basal area, a QMD of approximately 6.5 inches, canopy cover of 68%, and an average volume of approximately 22 cords per acre. The average volume for the pine dominated forest type is approximately 14 cords per acre, while the average volume for the pine-shrub oak forest type is nearly 15 cords per acre.

Understory species within the pine dominated forest type include black huckleberry, lowbush blueberry, sheep laurel, teaberry, greenbrier, and inkberry. Understory species within the pine-shrub oak forest type include black huckleberry, lowbush blueberry, teaberry, sheep laurel, mountain laurel, bracken fern, and inkberry. Understory species within the specific area on either side of Allen Road include lowbush blueberry, teaberry, black huckleberry, sheep laurel, greenbrier, mountain laurel, bracken fern, inkberry, bayberry, fetterbush, Virginia creeper, and highbush blueberry.

IV. Carbon

There are five nationally accepted forest carbon pools which exchange carbon with one another (flux) and make up the overall global carbon cycle. These five forest carbon pools include live

aboveground, live belowground, dead wood, litter, and soil organic carbon. These pools are generally combined to describe the total carbon stores within a site (see following tables). Information about New Jersey's carbon pools and overall carbon strategies can be found within the most recent State Forest Action Plan (2020). One of the main strategies includes "carbon defense"—protecting the integrity of existing carbon pools.

The proposed project will significantly reduce the forest carbon pools throughout the site overall due to the removal of forest overstory. In particular, the flux in carbon before and after each of the treatments will change primarily from live aboveground carbon (removal of trees) to the dead wood pool (increase in slash, tops, etc.) due to harvesting activities. In addition, removed carbon may be utilized and stored by long-term forest products, stored within landfills, converted to energy, or may be left on site to be recycled back to the system depending on the implementation contractor and method of harvesting used to carry out the treatments. However, despite some carbon pool losses, this project will provide significant carbon defense to the remaining trees and surrounding forest through avoided emissions by reducing the risk of a rapid release of carbon to the atmosphere through catastrophic wildfire, including multiple Atlantic white-cedar stands and restored sites located along Bartlett's Branch which contain significant carbon stores. This project will also allow for a break-up of the fuel ladder and will reduce the risk or likelihood of wildfire spread. Added benefits include making these stands more resilient under pressure from climate stressors such as drought or insect pest activity such as southern pine beetle.

V. Project Intent:

The range of forest density within both forest types of the proposed project presents significant wildfire fuel hazards, in addition to exceeding the threshold at which southern pine beetle (SPB) attack becomes a major risk. These issues have real potential consequences as major releases of carbon to the atmosphere through wildfire and mass mortality events. The proposed activities will address the dense volatile forest fuels and provide carbon defense for the future in an area plagued with historic wildfires, as well as create habitat more conducive for a variety of plant and wildlife species. In addition, these activities will provide significant protection of Atlantic white-cedar resources within the immediate (Bartlett's Branch) and surrounding areas.

Road Maintenance/Firebreak Activity:

Firebreak activities will include the clearing of trees approximately 25 feet from either side of both Allen Road and Oswego Road. Tree removal activities will not occur South of Bartlett's Branch Bridge, only road maintenance will occur here. Road maintenance activities will occur for the length of both Allen Road and Oswego Road (13 miles total). Tree removal activities will not occur south of Bartlett's Branch Bridge to the intersection of Stage Road; however, road maintenance activities will occur in this portion. Road maintenance activities could include the addition of gravel, removal/repair of existing broken hard surface material, and road grading

activities including crowning of the road. The inability to continue firebreak maintenance in the past has currently rendered both roads as non-functional firebreaks in a strategically significant section of the Pinelands region, as tree canopies connect or nearly connect across the roads. Removing all trees within 25 feet of either side of each road will not only establish the roads as useful firebreaks, reducing the risk of significant wildfire damage to the surrounding communities and forested tract as well as ensuring firefighter safety, but will allow the growth of native grasses to improve habitat conditions for a variety of wildlife species. Additionally, the creation and continued maintenance of these firebreaks will allow NJFFS personnel to safely carryout future planned prescribe burning efforts within the surrounding area. This activity consists of approximately 78 acres total. After trees are cut to create the firebreaks, various site preparation tools will be utilized to continue maintenance of the roads and firebreaks over the life of the permit. Site preparation activities will use a combination of mechanical methods (drum chopping, disking, and mowing) and prescribed fire.

If grass seed is needed due to the lack of native grasses seeding on their own, only native species mixes as suggested by the NJ Fish and Wildlife and Office of Natural Lands Management (ONLM) will be utilized (list of native grass species attached) and seeded in by hand using volunteers or a mechanical seeder such as a seed drill. Drum chopping will be utilized as well as prescribe burning along the tree removal areas (25 feet either side of roads) to again promote the establishment of native grasses. **A single pass of the drum chopper will be applied to break up the current root mat within the 25 feet of either side of the road (firebreak) but will not exceed 25 contiguous feet as outlined within the Pinelands CMP.** Additionally, only stumps along the road edge will be considered for removal, allowing for proper drainage of runoff. No new culverts will be installed, however current culverts will be evaluated and replaced in kind if needed, as the project progresses. Existing culverts along Allen Road and Oswego Road within the specified road maintenance project areas that are not in proper working condition will be replaced as needed over the life of the permit with an equivalent culvert size to ensure adequate water flow under the road. Areas along the firebreak/road maintenance portion of the project with intermittent ponds, bog communities, wetlands, floodplain swamps, potential treefrog breeding habitat and any wetlands associated plant species will be buffered by 100 feet from cutting and will remain consistent with the forestry standards within the Pinelands CMP.

<i>Firebreak Treatment</i>	<i>Trees/Ac</i>	<i>Basal Area/Ac</i>	<i>Quadratic Mean Diameter (QMD)</i>	<i>Canopy Cover</i>	<i>Merchantable Cord Volume/Ac</i>	<i>Total Merchantable Cord Volume</i>	<i>Total Live Tree Carbon (tons/ac)</i>
Before Treatment	438	99 ft ²	6.5"	68%	22	1,738	24.7
Right After Treatment	0	0	0	0	0	0	0

Forest Management Activity:

This activity includes two types of forest management, (1) thinning low and from below to an average basal area of 60-80ft²/acre (1,041 acres total), and (2) thinning at a variable density to an average basal area of 30-50 ft²/acre (263 acres total), similar to a modified shelterwood treatment. The low and from below thinning operations only (1), will consist of upland pine-dominated forest types only, located to the east and west of Allen Road running the length of the road as illustrated within the attached treatment map. Significant portions of this forest type have regenerated with pitch pine at excessive densities following the 1977 and 1999 wildfires. These stands will be thinned low and from below to a residual density of approximately 60-80 ft²/acre (35%-50% canopy cover) reducing the likelihood of a stand replacing wildfire by disrupting ladder fuels, increasing forest health, reducing forest density, and providing the added benefits of resilience under pressure from stressors such as drought and pests. This will simultaneously create a fuelbreak while maintaining a forest canopy. These pine dominated stands will be monitored and thinned again back to a residual density of 60-80ft²/acre near the end of the permit cycle if the trees are found to be expressing dominance due to competition. The variable density thinning treatment (2) will begin as a “feathered” edge with a density of 30 ft²/acre occurring from the western outside edge of only the Allen Road firebreak activity (which extends 25 feet from the road edge), approximately an additional 75 feet into the surrounding forest in the pine-shrub oak forest type only, north of Bartlett’s Branch bridge. This will aim to eliminate hard edges between the firebreak and fuelbreak treatments, creating a more feathered visual look. The term feathered thinning simply means creating a gradual transition area in density from complete tree removal (0 ft²/ac) along the edge of the road for the fire break treatment to the variable density thinning treatment (30-50 ft²/ac) to reduce hard edges between the two treatments and to create more visually appealing treatments. Additional areas within the pine-shrub oak forest type (and outside of the 75 feet feathered area), identified as being potentially suitable for local wildlife, will be silviculturally thinned in a variable density fashion to an average basal area of 30-50 ft²/acre (255 acres total). The variable density thinning will also target already open forest areas for the establishment of native grasses while encouraging already dense shrub oak growth in other locations.

Site preparation activities for silvicultural purposes such as the establishment of native grasses will use a combination of mechanical methods (drum chopping, disking, and mowing) and prescribed fire. Chemical methods, such as spot treatment with herbicide such as glyphosate and/or triclopyr, is proposed to be utilized to the minimum amount necessary to achieve silvicultural objectives in accordance with the NJ Pinelands CMP in the pine dominated forest type for the forest thinning areas. Targeted spot-spraying with herbicides may be used in the pine-dominated forest type to control competitive plant species, including invasives, where control by other non-chemical means is not practical. All applications will be completed by a licensed pesticide applicator and no more than one application will occur in any given growing season. The material safety data sheets (MSDS) and herbicide labels for the brand names of Accord XRT II and Garlon 4 Ultra with the main ingredients of glyphosate and triclopyr respectively are attached —Note: the attached are only examples of brand name herbicides that are commonly used, there are a variety of brands that include the same active ingredients of glyphosate and triclopyr that may be used for this project.

If grass seed is needed due to the lack of native grasses seeding on their own, only native species mixes as suggested by the NJ Fish and Wildlife and ONLM will be utilized and seeded in by hand using volunteers or a mechanical seeder such as a seed drill. Both types of forest management treatments outlined above will act as fuelbreaks from Allen Road in addition to promoting local wildlife habitat restoration.

All forestry thinning activities are proposed only within uplands, no closer than 80 feet from wetlands, in accordance with the Forest Stewardship Council Management Standards for the US (2010), also consistent with the NJ Forestry and Wetlands Best Management Practices Manual, and forestry standards within the Pinelands CMP. To minimize non-target impacts of the forest management activity, all practices will adhere to a set of specifications for this property. The proposed forest management activities will utilize existing roads, including Allen Road and Oswego Road themselves, no new roads will be created during the project, and skid trails will be located outside of wetlands.

Within the 10 years following the described forest management activities in the pine dominated forest type (thinning low and from below to 60-80ft²/acre), the stand will share some characteristics with its appearance today, however suppressed and smaller trees will have been removed allowing residual trees to grow without significant wind damage and the canopy will have remained mostly intact with some small openings having slowly filled. Any slash left on the ground will have mostly decomposed or been burned providing nutrients to residual trees. The treatment areas will have significantly less trees per acre, however trees will have increased in size and basal area, as well as begun to show dominance, so much so that it will be time for another low and from below thinning. After 20 years from the time of the first thinning and 10 years after the second thinning, all canopy trees will have improved in growth and vigor, in addition to resistance from disturbance agents like insects and disease. Small gaps left in the canopy from the second thinning activity will have filled from growth of the residual trees as well. The number of trees per acre will be significantly lower, whereas the basal area and QMD will have increased slightly. Forty years from now, significant growth will be apparent in the residual canopy trees which will have increased in size. Losses of individual trees over time due to age, competition, and other factors should not affect the extent or depth of the canopy, as residual neighboring trees should still be numerous enough to utilize the site.

Within the 10 years following the described forest management activities in the pine-shrub oak forest type within the 75-foot treatment areas west of Allen Road, as well as the additional areas identified as suitable for wildlife habitat within the pine-shrub oak forest type interior, the stands will share some characteristics with today's appearance. Overall stand species composition will remain the same, however an added component of native grasses within the understory will become present. Shrub oak will remain in dense pockets, while grass establishment will be evident within more open canopy pockets throughout the pine-shrub oak forest type. The number of trees per acre as well as basal area will have been significantly reduced, with some areas denser than others in the variably thinned locations. Any slash from the activities will have started to decompose or have been burned. The canopy will have been significantly opened, with some pine and shrub oak regeneration in areas along with the

establishment of grass. After 20 years from the time of the thinning activities, patches of shrub oak and pine regeneration will be evident along with significant establishment of grasses within the understory. The overstory will consist of residual trees with larger diameters, having increased in growth and vigor, with a slight increase in basal area as well. Forty years from now, with continued maintenance and the establishment of native grasses, dense patches of shrub oak and some pine regeneration will be evident, with dense patches of native grasses intermixed within the understory. Overstory trees will have significantly increased in diameter, while basal area will have increased, yet continue to remain relatively low. Losses of individual trees over time due to age, and other factors should not affect the extent or depth of the canopy significantly, as residual neighboring trees should still be numerous enough to utilize the site. The following tables demonstrate before and after treatment conditions for each activity.

<i>PINE Low & From Below Thinning Treatment</i>	<i>Trees/Ac</i>	<i>Basal Area/Ac</i>	<i>Quadratic Mean Diameter (QMD)</i>	<i>Canopy Cover</i>	<i>Merchantable Cord Volume/Ac</i>	<i>Total Merchantable Cord Volume</i>	<i>Total Carbon (tons/ac)</i>
Before Treatment	2,075	135 ft ²	3.5"	68 %	14	14,574	35.3
Right After First Treatment	313	80 ft ²	6.8"	42 %	14	14,574	34.4
Right After Second Treatment	204	80 ft ²	8.5"	43 %	18	18,738	31.0

<i>POK "Feathered" Variable Density Thinning Treatment</i>	<i>Trees/Ac</i>	<i>Basal Area/Ac</i>	<i>Quadratic Mean Diameter (QMD)</i>	<i>Canopy Cover</i>	<i>Merchantable Cord Volume/Ac</i>	<i>Total Merchantable Cord Volume</i>	<i>Total Carbon (tons/ac)</i>
Before Treatment	1,940	116 ft ²	3.3"	74%	15	120	38.4
Right After Treatment	33	30 ft ²	13.0"	19%	8	64	32.4

<i>POK Variable Density Thinning Treatment</i>	<i>Trees/Ac</i>	<i>Basal Area/Ac</i>	<i>Quadratic Mean Diameter (QMD)</i>	<i>Canopy Cover</i>	<i>Merchantable Cord Volume/Ac</i>	<i>Total Merchantable Cord Volume</i>	<i>Total Carbon (tons/ac)</i>
Before Treatment	1,940	116 ft ²	3.3"	74%	15	3,825	38.4
Right After Treatment	74	50 ft ²	11.1"	30%	12	3,060	34.9

VI. Natural and Historic Resources:

This project was reviewed by the NJDEP Natural Heritage Review Group (NHRG). As a part of this review the project was initially screened using GIS. The screening process indicated that certain members of NHRG were to be notified of the project for a more detailed review. As a result of the screen, the NJ Fish and Wildlife Endangered and Nongame Species program (ENSP), ONLM, Bureau of Freshwater Fisheries (BFF), and the NJ Historic Preservation Office (HPO) were consulted for detailed review and input into this project. Consequently, a natural heritage database search letter is attached to this proposal.

All NJDEP agencies included in the review approved of the activities associated with the proposal, provided that specified considerations were incorporated into the activity plan. The NHRG review revealed that the proposed activity would pose no irreversible adverse impacts to the resource or any threatened or endangered species. **In addition, no other specified threatened and endangered species buffers or equipment ground pressure restrictions were applied for these proposed activities during the NHRG review or Pinelands pre-application meeting.**

Prior to implementation, NJ DEP staff will conduct visual surveys for potential T&E avian species cavities or nesting trees. If such trees are identified, they will not be harvested. Further, NJ DEP staff will conduct the proposed activities between April 15 to November 15, the time period when known T&E snake species are active. To the extent possible the cutting of trees will be avoided from May 1st to July 15th during peak bird breeding season. Heavy equipment working on the roadway for road maintenance activities are excluded from the set timing restrictions.

NJ Forest Service staff is aware of an ongoing snake research study in the vicinity of this project area. This study is permitted through NJ DEP research and collection permits that NJ Forest Service staff as well as other NJ DEP programs have a role in approving. We have consulted with the leaders of the study as well as NJ F&W ENSP during project development and they have confirmed there will be no impacts to the study and that the study area and project area do not overlap.

Lastly, The NJ Forest Service will be following 80-foot buffers for soils with low erosion potential such as those within/surrounding the project activity areas. T&E frog species within the New Jersey Pinelands use intermittent wetlands with defined boundaries as prescribed in abstracts provided by the Pinelands Science staff in conjunction with the NJ Fish and Wildlife, additional buffers will be placed in the field if other distinct wetland areas are found. The Office of Natural Lands Management has been consulted for the location of the proposed activities and the 100-foot buffers have been found acceptable in regard to T&E species.

VII. Cultural Resource Survey:

During the NJDEP Natural Heritage review, the initial screening tool did not reveal conflicts with proposed activities with regards to cultural resources with HPO. However, should any cultural resources be discovered during the activity, HPO, as well as the NJ Pinelands Commission, will be notified.

VIII. Activity Scheduling:

1. Allen Road firebreak installation– remove trees within 25' road buffer
2. Oswego Road firebreak installation – remove trees within 25' road buffer
3. Conduct wildlife habitat restoration forestry thinning in the pine-shrub oak forest type (30-50 ft² basal area per acre) and conduct first upland forest thinning in the pine dominated forest type (60-80 ft² basal area per acre)
4. Site preparation treatments and establishment of native grasses for firebreaks and pine-shrub oak wildlife habitat restoration forestry thinned area as needed, as well as road maintenance activities (may be performed congruently with the other activities)
5. Continuous maintenance of firebreaks and roads using mechanical methods and prescribed fire as needed.
6. Second upland forest thinning in the pine dominated forest type (60-80 ft² basal area per acre)

For any questions or comments regarding this proposed activity please contact the New Jersey Forest Service at 609-292-2532 or email William.Zipse@dep.nj.gov .

IX. Stand Photos:

Pictured right and below—pine dominated forest type conditions. Note the ladder fuels and overstocked character. These conditions can lead to an unhealthy stand, as well as present significant wildfire hazards.



Pictured right and below—pine-shrub oak forest type conditions.



Parcels Associated with Proposed Activities

The following color outline indicates management type occurring in the listed Block (B)/Lot (L):

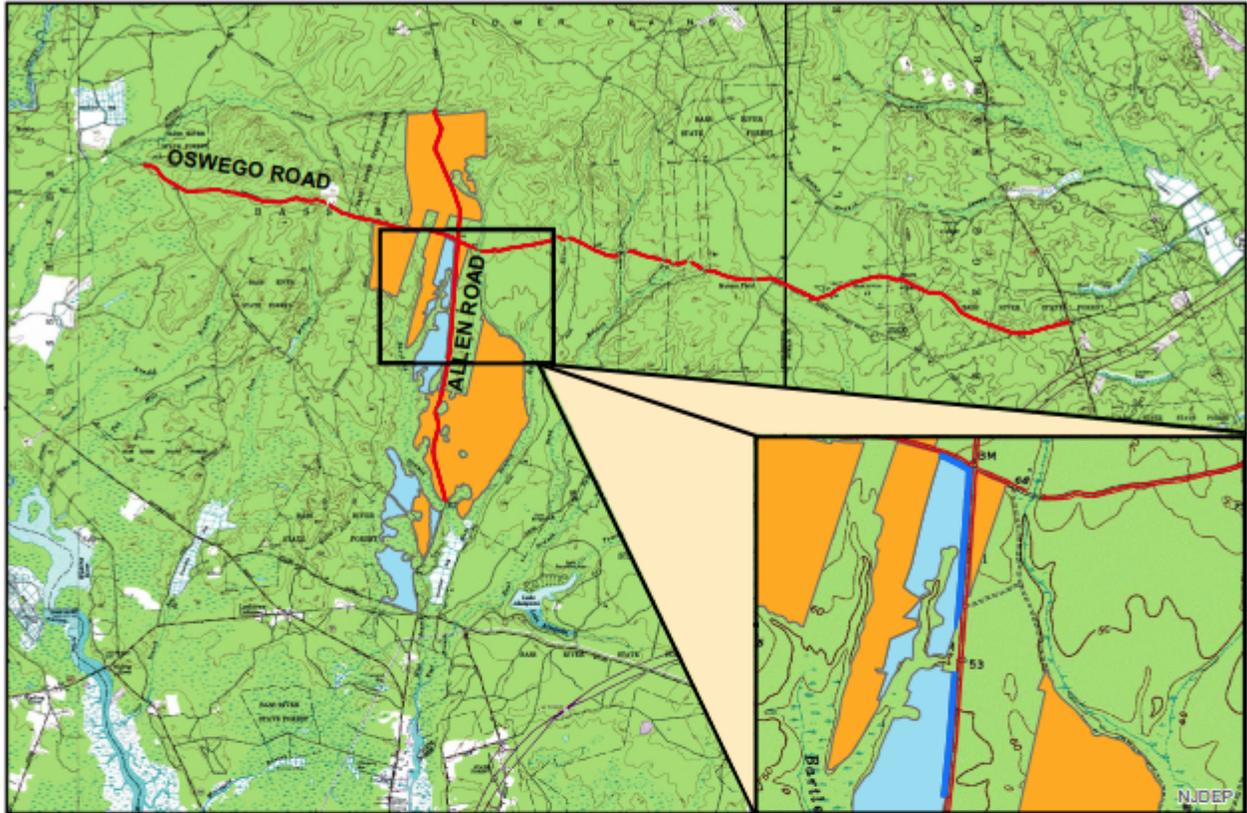
Allen Road, Road Maintenance/Firebreak
Oswego Road, Road Maintenance/Firebreak
Forest Management

Bass River Township (B, L)						Little Egg Harbor Township (B, L)
49, 12	78, 6	83, 2B	83, 26	100, 7	103C, 18	49, 1
65, 4	78, 6A	83, 2D	83, 27	100, 7	103C, 19	49, 10
64, 10	78, 6A	83, 2E	83, 28	100, 9	103C, 20	49, 3
65, 5	78, 6B	83, 2F	83, 28	100, 9	103C, 21	49, 4
65, 5	78, 6C	83, 5	91, 5A	100, 166	103C, 22	49, 5
73, 11	78, 6C	83, 6	94, 13	100, 166	103F, 1	49, 6
73, 14	78, 8	83, 6	94, 5	101, 34	103F, 2	49, 7
73A, 1	78, 10	83, 8	94, 6	101, 34	103F, 3	50, 1
73B, 1	78, 10	83, 9	94, 8	101, 36	103F, 4	50, 5
73C, 1	78, 11	83, 9	94, 9	101, 36	103F, 5	50, 6
73D, 1	78, 11	83, 9A	94, 9A	101, 37	103F, 6	51, 6
73E, 1	78, 12	83, 9A	94, 10	101, 37	103F, 7	51, 7
73G, 2	78, 12	83, 9B	94, 11	101, 37	103F, 8	51, 8
73H, 1	78, 13	83, 9B	94, 12	101, 39	103F, 9	52, 1
73K, 3	78, 15	83, 9C	95, 9	101, 39	103G, 1	52, 3
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73K, 5	78, 15	83, 9D	96E, 1	101, 42	103I, 1	52, 5
73K, 6	78, 16	83, 10	96E, 9	101, 42	103J, 1	52, 6
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77, 5	78, 19	83, 14	96E, 35	103, 3		59, 8
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77, 17	78, 20	83, 16	96E, 46	103, 168		64, 1
77, 18	78, 20	83, 16	96E, 47	103, 169		
77, 27	78, 21	83, 17	96E, 48	103, 170		
77, 41	78, 21	83, 18	96E, 49	103, 171		
77, 42	78, 21	83, 18	96E, 50	103, 172		

¹ All parcels within Little Egg Harbor Township adjacent to project area (within 200') are owned by NJDEP.

Bass River Township (B, L)

77, 42	78, 23	83, 18	96E, 51	103, 173	
77, 42	78, 33	83, 21	96E, 52	103, 174	
77, 43	78, 33	83, 21	96E, 53	103, 175	
77, 43	82, 2	83, 21	96E, 54	103, 208	
78, 1	82, 2	83, 22	96E, 55	103, 209	
78, 1	82, 4	83, 22	97A, 1	103, 214	
78, 2	82, 4	83, 22	97D, 1	103B, 2	
78, 2	83, 1	83, 23	101, 1	103B, 7	
78, 4	83, 2	83, 23	100, 3	103B, 9	
78, 4	83, 2	83, 25	100, 3	103B, 11	
78, 5	83, 2A	83, 25	100, 3A	103B, 12	
78, 5	83, 2A	83, 25	100, 3A	103B, 13	
78, 6	83, 2B	83, 26	100, 7	103C, 17	



AGENCY: NJ Forest Service
 DATE: 08/18/2022
 FOREST: Bass River State Forest
 SITE ID: Allen & Oswego Road Fire Mitigation & Habitat Restoration
 COUNTY: Burlington/Ocean
 TOWNSHIP: Bass River / Little Egg Harbor
 BLOCK/LOT: Please see proposal.
 ACREAGE: 78 ac (Road Maintenance/Firebreak)
 1,305 ac (Forest Management)

SOILS: Atsion Sands (AtsaA, AtshA), Downer Loamy Sands (DocB), Fluvaquents (FmgAt), Lakehurst Sands (LakB, LakhB), Lakewood Sands (LasB), Manahawkin Muck (MakAt), Woodstown Loamy Sand (WodhB), Woodmansie Sand (WobB, WobC, WobhB, WobmB).

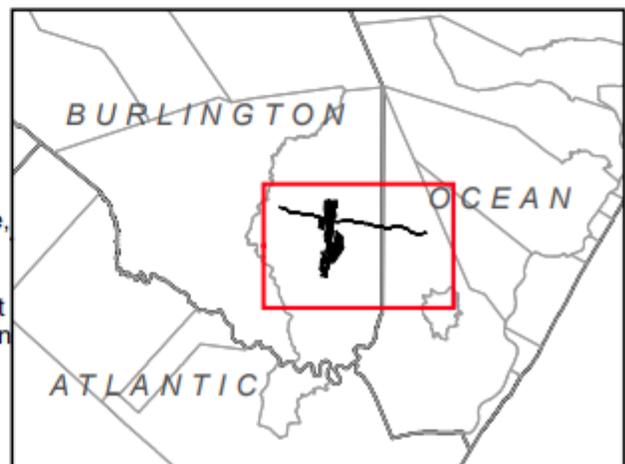
ACTIVITY DESCRIPTION:

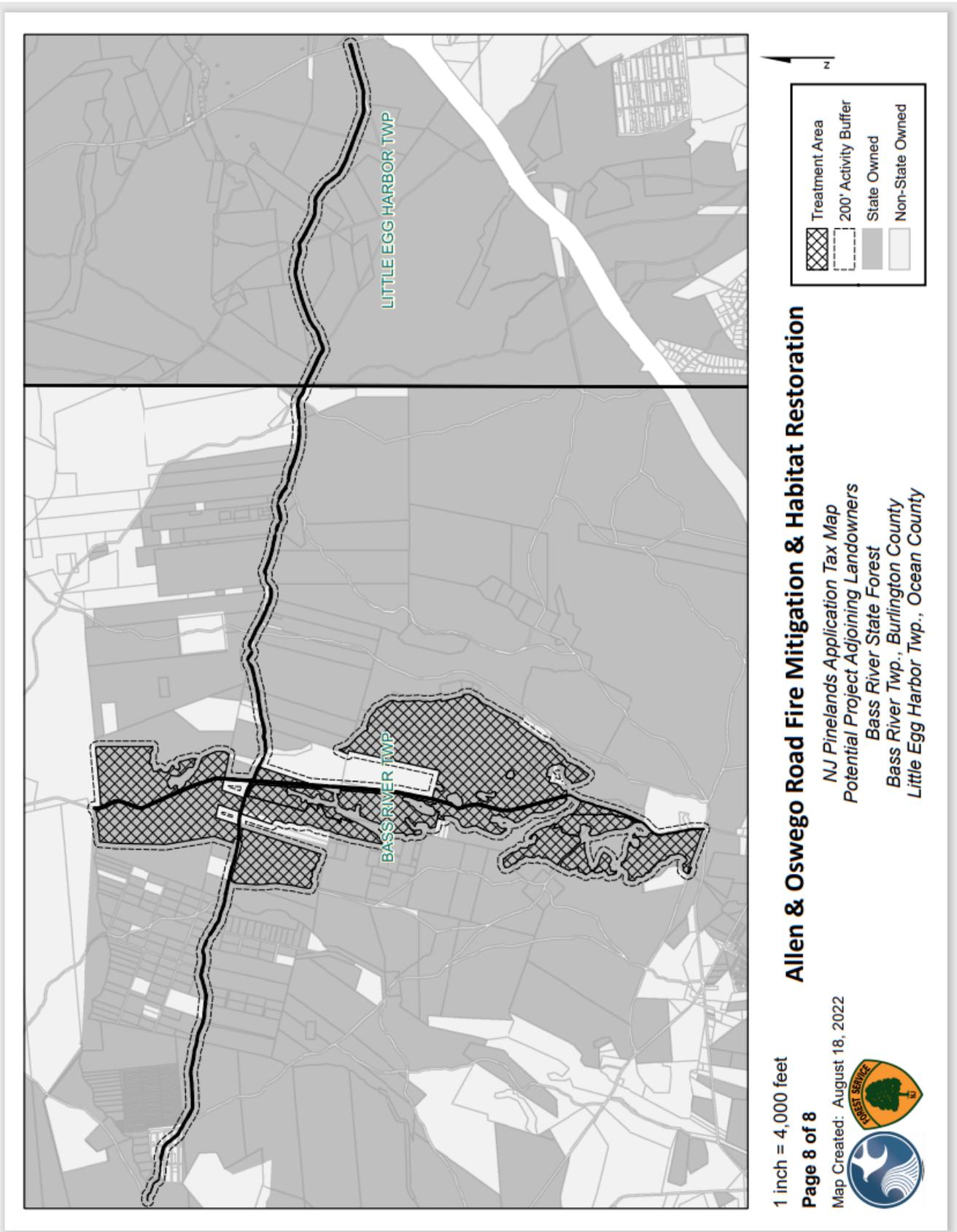
Project activities include firebreak/road maintenance, variable density thinning, and low and from below thinning. Variable Density thinning will occur in the pine-shrub oak forest type to promote wildlife habitat restoration. Low and from below thinning will occur in the pine dominated forest type to improve stand health and resilience, address the dense volatile forest fuels, and provide carbon defense for the future in an area plagued with historic wildfires.

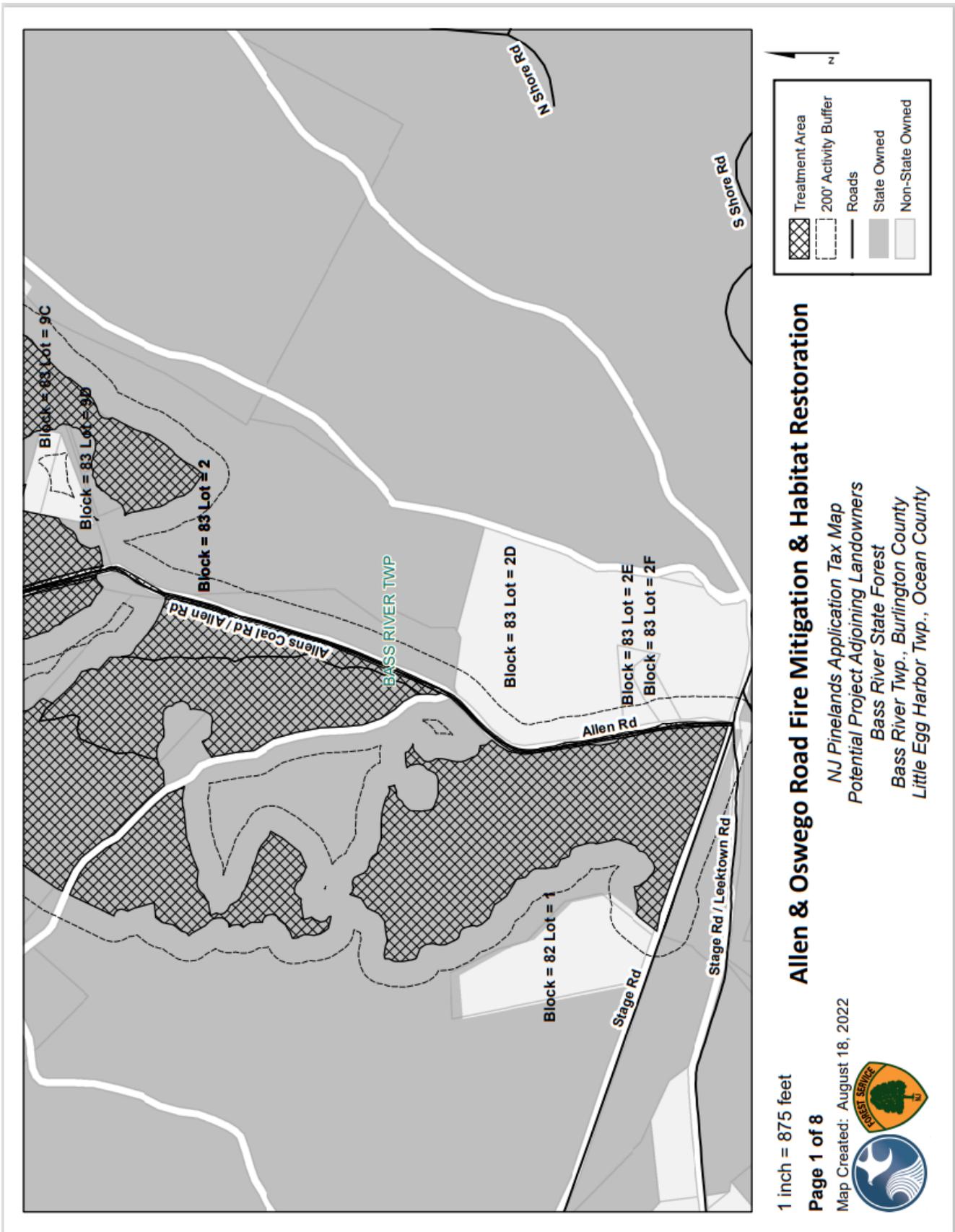
RF SCALE: 1:80,000
 SCALE: 1 inch = 1 mile
 COUNTY: Burlington/Ocean
 QUAD(S): OSWEGO LAKE, WEST CREEK

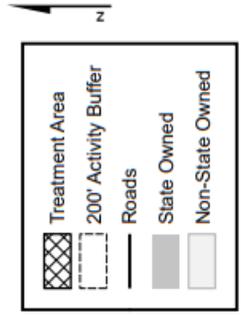
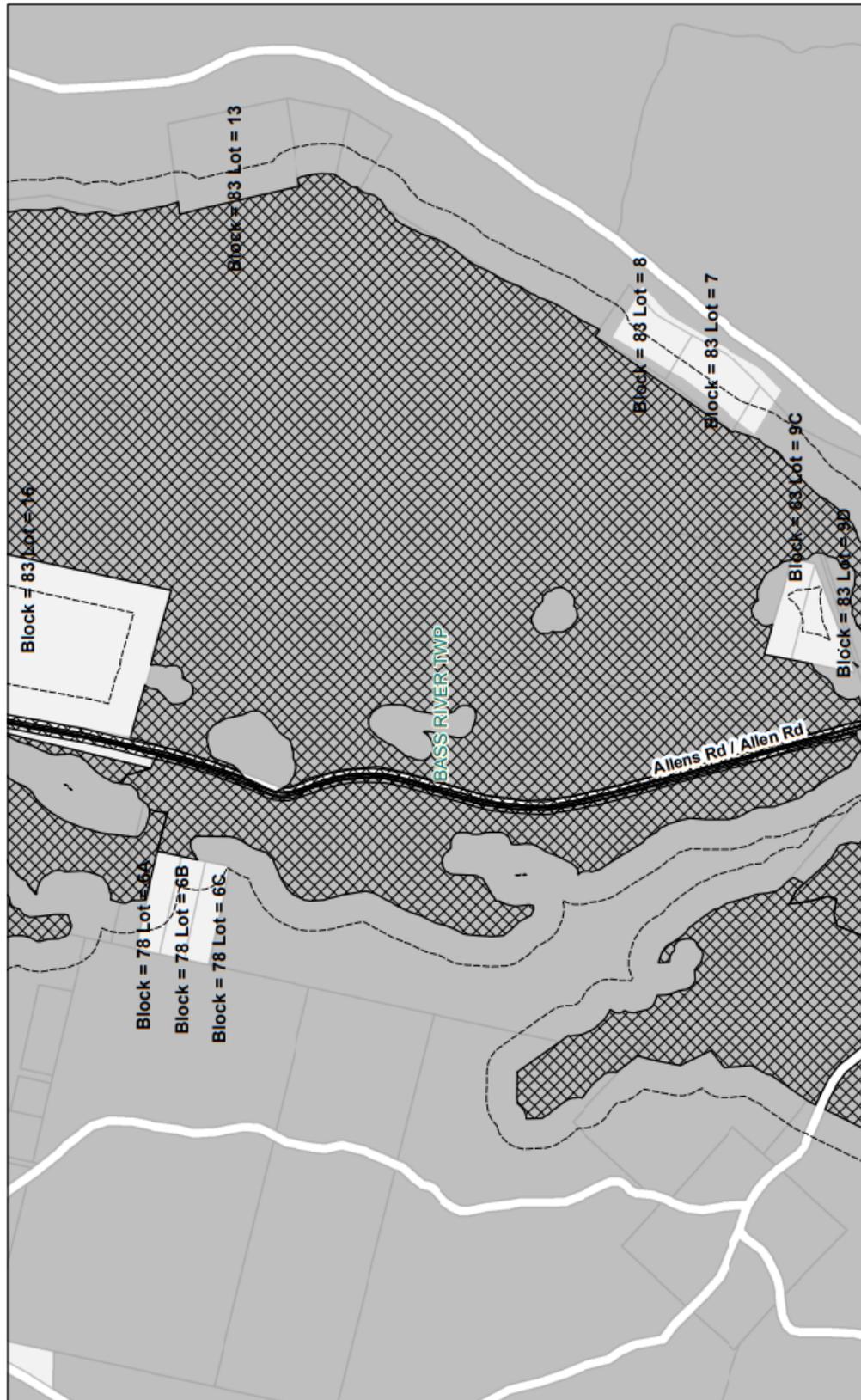


- Firebreak/Road Maintenance
- PINE Low & From Below Thinning
- POK Variable Density Thinning
- POK "Feathered" Variable Density Thinning





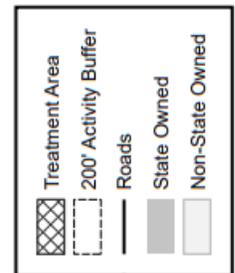




Allen & Oswego Road Fire Mitigation & Habitat Restoration
 NJ Pinelands Application Tax Map
 Potential Project Adjoining Landowners
 Bass River State Forest
 Bass River Twp., Burlington County
 Little Egg Harbor Twp., Ocean County

1 inch = 875 feet
Page 2 of 8
 Map Created: August 18, 2022



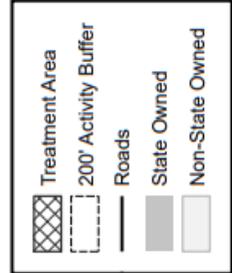
1 inch = 1,091 feet
Page 3 of 8

Map Created: August 18, 2022



Allen & Oswego Road Fire Mitigation & Habitat Restoration

*NJ Pinelands Application Tax Map
 Potential Project Adjoining Landowners
 Bass River State Forest
 Bass River Twp., Burlington County
 Little Egg Harbor Twp., Ocean County*



Allen & Oswego Road Fire Mitigation & Habitat Restoration

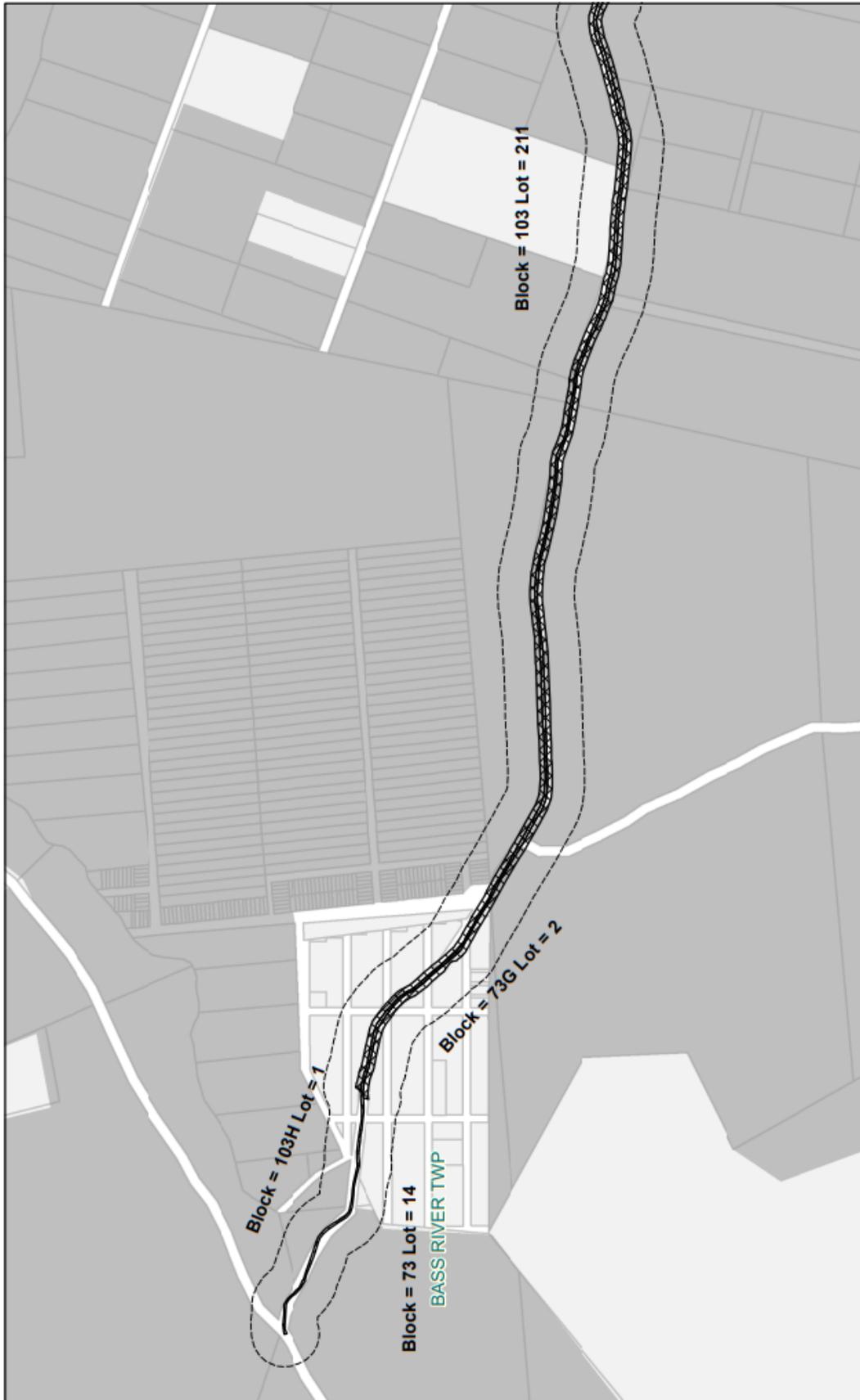
NJ Pinelands Application Tax Map
Potential Project Adjoining Landowners
Bass River State Forest
Bass River Twp., Burlington County
Little Egg Harbor Twp., Ocean County

1 inch = 1,091 feet

Page 4 of 8

Map Created: August 18, 2022





1 inch = 820 feet

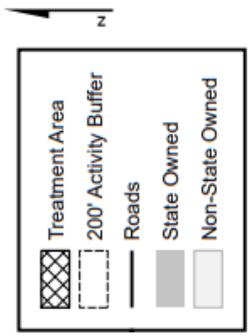
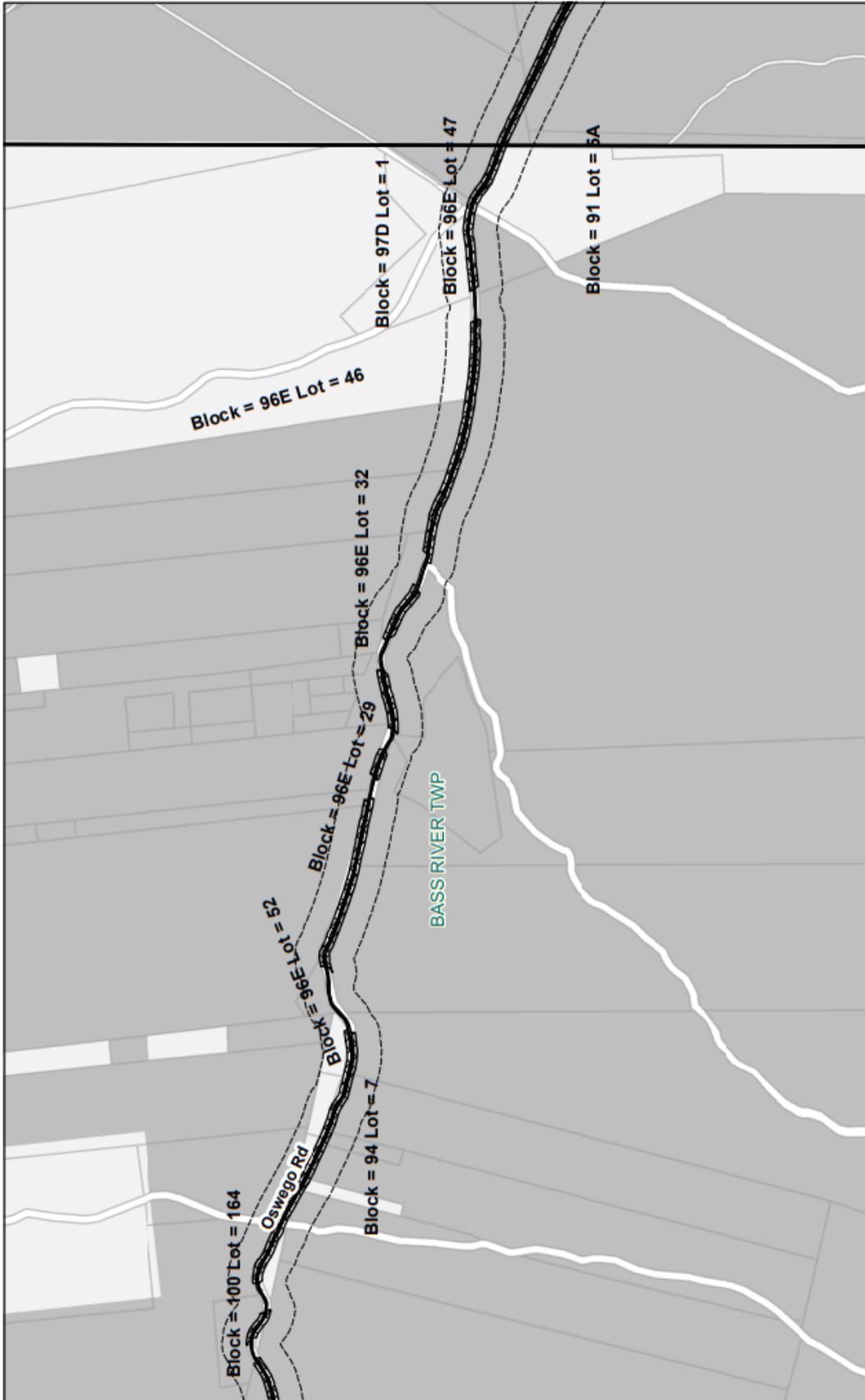
Page 5 of 8

Map Created: August 18, 2022



Allen & Oswego Road Fire Mitigation & Habitat Restoration

NJ Pinelands Application Tax Map
 Potential Project Adjoining Landowners
 Bass River State Forest
 Bass River Twp., Burlington County
 Little Egg Harbor Twp., Ocean County



Allen & Oswego Road Fire Mitigation & Habitat Restoration

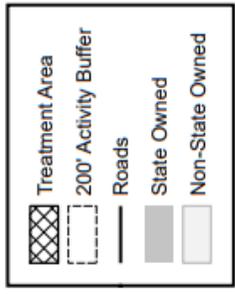
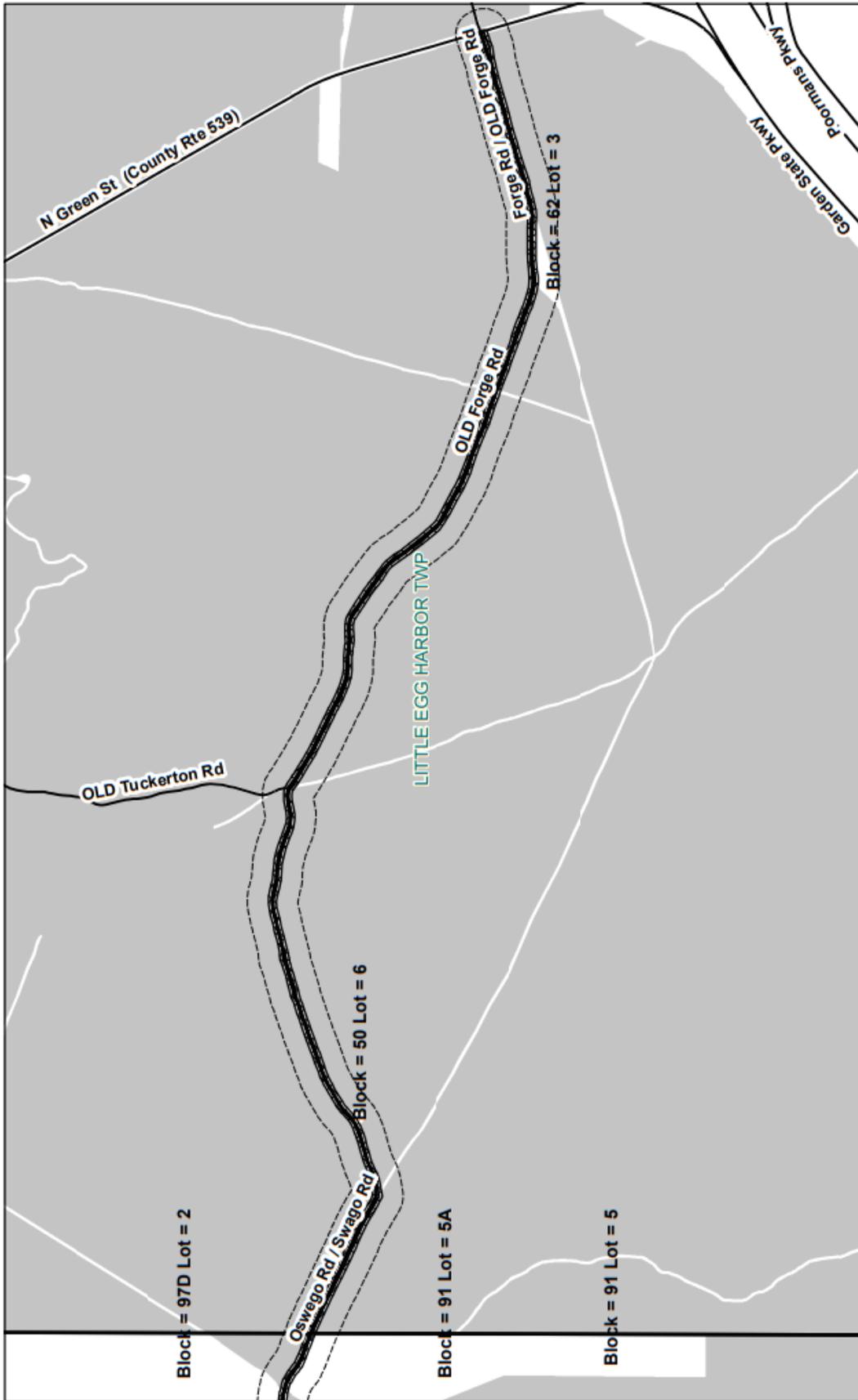
NJ Pinelands Application Tax Map
Potential Project Adjoining Landowners
Bass River State Forest
Bass River Twp., Burlington County
Little Egg Harbor Twp., Ocean County

1 inch = 1,091 feet

Page 6 of 8

Map Created: August 18, 2022





Allen & Oswego Road Fire Mitigation & Habitat Restoration

NJ Pinelands Application Tax Map
 Potential Project Adjoining Landowners
 Bass River State Forest
 Little Egg Harbor Twp., Burlington County
 Ocean County

1 inch = 1,250 feet
 Page 7 of 8

Map Created: August 18, 2022



LEGAL NOTICE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NEW JERSEY FOREST SERVICE

August 19, 2022

Take notice that the NJ Department of Environmental Protection, New Jersey Forest Service has amended an application to be applied to the NJ Pinelands Commission to permit forest management activities on state owned land as identified below. The application is on file and available for inspection by appointment at the NJ Pinelands Commission's office. Interested parties may comment to the Pinelands Commission within 10 days of the date of this notice.

Comments should be sent to:

Pinelands Commission
P.O. Box 359
New Lisbon, New Jersey 08064
Phone: (609) 894-7300 Fax: (609) 894-7331
Email: AppInfo@njpines.state.nj.us

Any person who provides comments or requests a copy of the Executive Director's findings and conclusion shall be provided a copy of said findings and conclusion. Any interested person who is aggrieved by said determination is entitled to a hearing by appealing the determination.

Location: Bass River State Forest

Allen & Oswego Road Fire Mitigation & Habitat Restoration
Firebreak Establishment & Silvicultural Thinning
Application # 2007-0318.001
Activity Size (Acres): Amended to 78 acres and 1,305 acres for a total of 1,383 acres
Bass River Twp., Burlington County & Little Egg Harbor Twp., Ocean County
Block/Lot: Various.

Purpose & Activity: Wildfire strategic risk reduction through firebreak establishment and silvicultural thinning with maintenance of forest canopy to prevent stand replacing wildfire and increase forest health, in addition to forestry thinning and mowing for fuelbreak establishment and the promotion of local wildlife habitat restoration.

Project Contact: William Zipse, Supervising Forester: 609-292-2532

Prepared by: Holly Seelman, Forester
New Jersey Forest Service
Mail Code: 501-04
P.O. Box 420
Trenton, NJ 08625

8/19/22, 10:22 AM

Mail - Seelman, Holly [DEP] - Outlook

[EXTERNAL] RE: NJ Forest Service Legal Notice Publish

ACY Classified Legals <classlegal@pressofac.com>

Fri 8/19/2022 9:50 AM

To: Seelman, Holly [DEP] <Holly.Seelman@dep.nj.gov>

Hello,

This is to confirm receipt of your email request for a legal notice to be published on August 22, 2022. Once the notice is input and scheduled, a proof will be emailed to you.

Thank you.

Elizabeth Matos

(609) 272 -7240

classlegal@pressofac.com

From: Seelman, Holly [DEP] [mailto:Holly.Seelman@dep.nj.gov]

Sent: Friday, August 19, 2022 9:45 AM

To: ACY Classified Legals

Subject: Re: NJ Forest Service Legal Notice Publish

OWNER & ADDRESS REPORT

BASS RIVER

08/09/22 Page 1 of 3

BASS RIVER TOWNSHIP CERTIFIED LIST OF PROPERTY OWNERS WITHIN 200 FEET OF ALLEN & OSWEGO ROAD FIRE MITIGATION & HABITAT RESTORATION PROJECT

BLOCK	LOT	QUAL	CLA	PROPERTY OWNER	PROPERTY LOCATION	Add'l Lots
73.G	2		15C	TOWNSHIP OF BASS RIVER PO BOX 307 NEW GRETN, NJ 08224	E ADAMS TRACT	
78	4		15C	STATE OF NEW JERSEY 1230 W HORSE-MERCER RD TRENTON, NJ 08619	MARTHA ROAD	7.9, 10.01, 10.05, 11,
78	6.A		15C	NEW JERSEY AUDUBON SOCIETY 9 HARDSCRABBLE ROAD BERNARDSVILLE, NJ 07924	BERKLEY AVE	6.03, 6.04
78	14		1	GARRISON & BROWN LLC P.O. BOX 343 NEW GRETN, NJ 08224	ALLEN ROAD	
78	18		15C	TOWNSHIP OF BASS RIVER PO BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
78	31		15C	NEW JERSEY, D.E.P. PO BOX 420 TRENTON, NJ 08625	TUCKER AVENUE	
78	32		15C	NJ CONSERVATION FOUNDATION 170 LONGVIEW RD FAR HILLS, NJ 07931	TUCKER AVENUE	
78	34		1	EST OF R MURRAY % ALYCE DE LUIGI 22 GREENVALE CIRCLE WHITE PLAINS, NY 10607	OSWEGO RD	
82	1		15C	NJ CONSERVATION FOUNDATION 170 LONGVIEW RD FAR HILLS, NJ 07931	STAGE ROAD	
83	2.C		4A	GRETN GREENS % S HAZARD GREENS INC PO BOX 17 NEW GRETN, NJ 08224	940 STAGE ROAD	2-D
83	2.E		2	MEYER, GREG A & HAZARD, JESSICA J 12 ALLEN ROAD NEW GRETN, NJ 08224	12 ALLEN ROAD	
83	2.F		2	HAZARD, RICHARD S & HELEN M P O BOX 17 NEW GRETN, NJ 08224	10 ALLEN ROAD	2.014 AC
83	7		15C	NJ CONSERVATION FOUNDATION 170 LONGVIEW RD FAR HILLS, NJ 07931	COAL ROAD	8
83	9.C		1	BROWN, ANNIE M & MRS GEORGE STABILE 360 PAXTON COURT UPLAND, CA 91784	OCEAN AVE	9.05
83	13		15C	PHILLIPS, JUNE 101 DAWN DRIVE LINWOOD, NJ 08221	COAL ROAD	
83	16	QFARM	3B	AVE CORP %FRANCIS R HOEFLING 147 OLD FARMS ROAD S. GLASTONBURY, CT 06073	ALLEN ROAD	
83	17		15C	STATE OF NEW JERSEY 401 E STATE ST TRENTON, NJ 08625	ALLEN ROAD	
83	17		15C	STATE OF NEW JERSEY 401 E STATE ST TRENTON, NJ 08625	ALLEN ROAD	
83	19		1	GARRISON & BROWN LLC P.O. BOX 343 NEW GRETN, NJ 08224	ALLEN ROAD	

OWNER & ADDRESS REPORT

BASS RIVER

08/09/22 Page 2 of 3

BASS RIVER TOWNSHIP CERTIFIED LIST OF PROPERTY OWNERS WITHIN 200 FEET OF ALLEN & OSWEGO ROAD FIRE MITIGATION & HABITAT RESTORATION PROJECT

BLOCK	LOT	QUAL	CLA	PROPERTY OWNER	PROPERTY LOCATION	Add'l Lots
83	20		1	GARRISON & BROWN LLC P.O. BOX 343 NEW GRETN, NJ 08224	OSWEGO ROAD	
91	5		1	KAUFMAN, ROBERT % SAGE REALTY %SAGE RLT 767 3RD AV 5FL NEW YORK, NY 10017	OSWEGO ROAD	5.02
94	7		2	BUCK RUN GUN CLUB % KEN CONOVER 21 COLONIAL AVE PITMAN, NJ 08071	520 OSWEGO ROAD	
96.E	29		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
96.E	32		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
96.E	46		1	MASCI, CECILIA & KRAJACK, JURY G 1 JOHNNY DR FARMINGDALE, NJ 07727	ANDREWS ROAD	
96.E	47		1	KAUFMAN ROBERT %SAGE RLT 767 3RD AV 5FL NEW YORK, NY 10017	OSWEGO & ANDREWS ROAD	
97.D	1		1	KAUFMAN ROBERT %SAGE RLT 767 3RD AV 5FL NEW YORK, NY 10017	MUNION FIELD & ANDREWS	
97.D	2		1	MASCI, CECILIA & KRAJACK, JOAN E 1 JOHNNY DR FARMINGDALE, NJ 07727	ANDREWS ROAD	
100	4		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	ALLEN ROAD	
100	5		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	ALLEN ROAD	
100	6		1	GARRISON & BROWN LLC P.O. BOX 343 NEW GRETN, NJ 08224	OSWEGO ROAD	
100	8		15C	NJ CONSERVATION FOUNDATION 170 LONGVIEW RD FAR HILLS, NJ 07931	OSWEGO ROAD	
100	9		15C	STATE OF NEW JERSEY, D.E.P. 401 EAST STATE STREET TRENTON, NJ 08625	OSWEGO ROAD	
100	10		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
100	164		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
101	35		15C	TOWNSHIP OF BASS RIVER N MAPLE AVE NEW GRETN, NJ 08224	OSWEGO ROAD	
101	38		15C	TOWNSHIP OF BASS RIVER PO BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
101	40		15C	TOWNSHIP OF BASS RIVER PO BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	

OWNER & ADDRESS REPORT

BASS RIVER

08/09/22 Page 3 of 3

BASS RIVER TOWNSHIP CERTIFIED LIST OF PROPERTY OWNERS WITHIN 200 FEET OF ALLEN & OSWEGO ROAD FIRE MITIGATION & HABITAT RESTORATION PROJECT

BLOCK	LOT	QUAL	CLA	PROPERTY OWNER	PROPERTY LOCATION	Add'l Lots
101	41		15C	TOWNSHIP OF BASS RIVER PO BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
101	43		15C	TOWNSHIP OF BASS RIVER P.O. BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	
103	211		15C	NEW JERSEY, D.E.P. P.O. BOX 420 TRENTON, NJ 08625	OSWEGO ROAD	
103.H	1		15C	TOWNSHIP OF BASS RIVER PO BOX 307 NEW GRETN, NJ 08224	OSWEGO ROAD	

**State of New Jersey****DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STATE PARKS, FORESTS AND HISTORIC SITES

501 East State Street

P.O. Box 420, Mail Code 501-04

Trenton, New Jersey 08625-0420

Tel. (609) 292-2520 • Fax (609) 984-0378

www.nj.gov/dep**PHILIP D. MURPHY***Governor***SHEILA Y. OLIVER***Lt. Governor***SHAWN M. LATOURETTE***Commissioner***Public Development
Forest Management Activity
Adjacent Landowner Notification**

New Jersey State Parks, Forests & Historic Sites
State Lands Management
Mail Code: 501-04
P.O. Box 420
Trenton, NJ 08625

August 18, 2022

Re: Allen & Oswego Road Fire Mitigation & Habitat Restoration – Bass River Township & Little Egg Harbor Township, Bass River State Forest

Please take notice that the New Jersey Forest Service has applied to the Pinelands Commission for approval of an amended application for Public Development (Forestry), which has been officially submitted as application #: 2007-0318.001. The two major types of proposed forestry activities are road maintenance/firebreaks (amended to 78 acres) and forest management (amended to 1,305 acres) within Bass River State Forest (see attached map). These activities will establish wildfire strategic risk reduction through firebreak establishment and silvicultural thinning with maintenance of forest canopy to prevent stand replacing wildfire and increase forest health, in addition to forestry thinning and mowing for fuelbreak establishment and the promotion of local wildlife habitat restoration. Operations will involve cutting unhealthy, suppressed, and poorly formed trees, while favoring the retention of healthy species of oak and pine, utilizing the appropriate mechanized equipment. The application is currently on file and available for inspection by appointment at the Pinelands Commission's office.

Amended items are as follows:

- All buffers have been amended to reflect 80 feet.
- Firebreak activities have been amended to include the clearing of trees approximately 25 feet from either side of both Allen Road and Oswego Road.
- Total Road Maintenance acreage decreased to 78 acres.
- The feathered variable density thinning treatment occurring from the western outside edge of only the Allen Road firebreak activity (which extends 25 feet from the road edge), has been updated to approximately an

August 18, 2022
Page 2 of 3

additional 75 feet into the surrounding forest in the pine-shrub oak forest type only, north of Bartlett's Branch bridge.

- Total Forest Management acres increased 1,305 acres.
- Provided additional details and clarified language on herbicide use.

Interested persons may comment to the Pinelands Commission within ten (10) days of the receipt of this notice. Comments should be sent to the Pinelands Commission, PO Box 359, New Lisbon, New Jersey 08064, or by fax at (609)894-7331, or via email at AppInfo@njpines.state.nj.us. Any person who provides comments or requests a copy of the Executive Director's findings and conclusion shall be provided a copy of said findings and conclusion. Any interested person who is aggrieved by said determination is entitled to a hearing by appealing the determination.

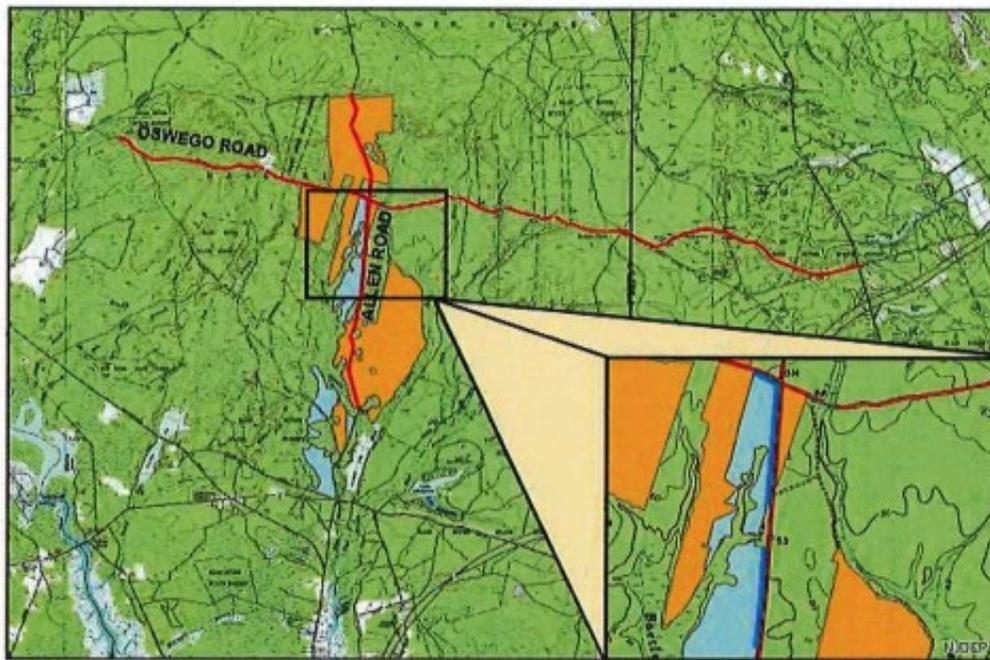
Sincerely,



Samantha Hensen
Assistant Regional Forester
State Lands Management
New Jersey Forest Service



August 18, 2022
Page 3 of 3



AGENCY: NJ Forest Service
 DATE: 08/18/2022
 FOREST: Bass River State Forest
 SITE ID: Allen & Oswego Road Fire Mitigation & Habitat Restoration
 COUNTY: Burlington/Ocean
 TOWNSHIP: Bass River / Little Egg Harbor
 BLOCK/LOT: Please see proposal.
 ACREAGE: 78 ac (Road Maintenance/Firebreak)
 1,305 ac (Forest Management)

SOILS: Atsion Sands (AtsaA, AtshA), Downer Loamy Sands (DocB), Fluvaquents (FmgAt), Lakehurst Sands (LakB, LakhB), Lakewood Sands (LasB), Manahawkin Muck (MakAt), Woodstown Loamy Sand (WodhB), Woodmansie Sand (WobB, WobC, WobhB, WobmB).

ACTIVITY DESCRIPTION:

Project activities include firebreak/road maintenance, variable density thinning, and low and from below thinning. Variable Density thinning will occur in the pine-shrub oak forest type to promote wildlife habitat restoration. Low and from below thinning will occur in the pine dominated forest type to improve stand health and resilience, address the dense volatile forest fuels, and provide carbon defense for the future in an area plagued with historic wildfires.

RF SCALE: 1:80,000
 SCALE: 1 inch = 1 mile
 COUNTY: Burlington/Ocean
 QUAD(S): OSWEGO LAKE, WEST CREEK



- Firebreak/Road Maintenance
- PINE Low & From Below Thinning
- POK Variable Density Thinning
- POK "Feathered" Variable Density Thinning



Department of Environmental Protection Office of Natural Lands Management Mail Code 501-04, P.O. Box 420 Trenton, New Jersey 08625-0420 Tel. (609) 984-1339; Fax. (609) 984-1427		 <h1 style="margin: 0;">Invoice</h1>	
		Date	Invoice #
		8/18/2022	25644
Bill to: New Jersey Forest Service 501 East State Street, PO Box 420, Mail Code 501-04 Trenton, NJ 08625-0420		Make check payable to: DEP - Office of Natural Lands Management Include this invoice with payment & send to: NJDEP Office of Natural Lands Management Mail Code 501-04, P.O. Box 420 Trenton, New Jersey 08625-0420	
Quantity (hrs.)	Description	Rate (per hr.)	Amount
1	Natural Heritage Database search for locational information of rare species and ecological communities. Project: 22-3907464-25644	\$ 0.00	\$ 0.00
Samantha Hensen Project Name: Allen Rd/Oswego Rd Fuelbreak/Firebreak		Total	\$ 0.00



State of New Jersey

MAIL CODE 501-04

DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE PARKS, FORESTS & HISTORIC SITES

OFFICE OF NATURAL LANDS MANAGEMENT

501 East State Street

P.O. Box 420, Mail Code 501-04

Trenton, NJ 08625-0420

Tel. (609) 984-1339 • Fax (609) 984-0427

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

SHAWN M. LATOURETTE
Commissioner

August 18, 2022

Samantha Hensen
New Jersey Forest Service
501 East State Street, PO Box 420, Mail Code 501-04
Trenton, NJ 08625-0420

Re: Allen Rd/Oswego Rd Fuelbreak/Firebreak
Bass River Township, Burlington County

Dear Samantha Hensen:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the map(s) submitted with the Natural Heritage Data Request Form into our GIS. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or in the immediate vicinity of the site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from <https://nj.gov/dep/parksandforests/natural/heritage/database.html>. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from https://nj.gov/dep/parksandforests/natural/docs/nhpcodes_2010.pdf.

Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL,

NHP File No. 22-3907464-25644

<https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7>, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at <http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html>.

Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements (species and/or ecological communities) or their locations. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,



Robert J. Cartica
Administrator

c: NHP File No. 22-3907464-25644

NHP File No. 22-3907464-25644

Table 1: On Site Data Request Search Results (6 Possible Reports)

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	Yes	See emailed attachments
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	2 page(s) included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

**Rare Wildlife Species or Wildlife Habitat on the
Project Site Based on Search of
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Amphibia</i>								
	Carpenter Frog	Lithobates virgatipes	Occupied Habitat	2	NA	Special Concern	G4	S3
	Pine Barrens Treefrog	Hyla andersonii	Breeding Sighting	3	NA	State Threatened	G4	S2
	Pine Barrens Treefrog	Hyla andersonii	Non-breeding Sighting	3	NA	State Threatened	G4	S2
	Pine Barrens Treefrog	Hyla andersonii	Occupied Habitat	3	NA	State Threatened	G4	S2
	Pine Barrens Treefrog	Hyla andersonii	Vernal Pool Breeding	3	NA	State Threatened	G4	S2
<i>Aves</i>								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Black-billed Cuckoo	Coccyzus erythrophthalmus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Common Nighthawk	Chordeiles minor	Breeding Sighting	2	NA	Special Concern	G5	S3B,S3N
	Northern Parula	Parula americana	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N

**Rare Wildlife Species or Wildlife Habitat on the
Project Site Based on Search of
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
	Snowy Egret	Egretta thula	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Whip-poor-will	Caprimulgus vociferus	Breeding Sighting	2	NA	Special Concern	G5	S3B,SUN
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
<i>Insecta</i>								
	Hessel's Hairstreak	Callophrys hesseli	Casual Flyby	2	NA	Special Concern	G3G4	S3
	Pine Barrens Bluet	Enallagma recurvatum	Occupied Habitat	2	NA	Special Concern	G3	S3
<i>Mammalia</i>								
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S2
<i>Reptilia</i>								
	Eastern Box Turtle	Terrapene carolina carolina	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Northern Pine Snake	Pituophis melanoleucus melanoleucus	Occupied Habitat	3	NA	State Threatened	G4T4	S2
	Timber Rattlesnake	Crotalus horridus horridus	Occupied Habitat	4	NA	State Endangered	G4T4	S1

**Vernal Pool Habitat on the
Project Site Based on Search of
Landscape Project 3.3**

Vernal Pool Habitat Type	Vernal Pool Habitat ID
Vernal habitat area	2702
Vernal habitat area	2707
Potential vernal habitat area	795
Total number of records:	3

Table 2: Vicinity Data Request Search Results (6 possible reports)

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	Yes	3 page(s) included
2. Natural Heritage Priority Sites within the Immediate Vicinity	Yes	See emailed attachments
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	3 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

**Immediate Vicinity of the Project Site
Based on Search of Natural Heritage Database
Rare Plant Species and Ecological Communities Currently Recorded in
the New Jersey Natural Heritage Database**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Regional Status	Grank	Srank	Identified	Last Observed	Location
<i>Vascular Plants</i>									
Ludwigia hirtella	Hairy Primrose-willow			LP, HL	G5	S1	Y	1937-07-28	Near Beaver Branch of Wading River, southwest of Calico.
Muhlenbergia torreyana	Pine Barren Smoke Grass			LP, HL	G3	S3	Y	2016-10-18	Wharton State Forest. Located 1.4 miles northeast of Harrisville, 1.75 miles east-southeast of intersection of County Route 563 (also named Green Bank Chatsworth Road and Chatsworth Harrisville New Gretna Road) and County Route 679 (also named Harrisville Chatsworth Road), 0.6 mile east-southeast of Martha, in Bass River Township, Burlington County.
Muhlenbergia torreyana	Pine Barren Smoke Grass			LP, HL	G3	S3	Y	2016-10-18	Bass River State Forest. Located 2.5 miles northeast of Harrisville, 2.25 miles west-northwest of intersection of Oswego Road and Allen(s) Road, 1.6 miles east-southeast of Martha, in Bass River Township, Burlington County.
Panicum wrightianum	Wright's Panic Grass			HL	G4	S2	Y	2016-10-18	Bass River State Forest. Located 2.5 miles northeast of Harrisville, 2.25 miles west-northwest of intersection of Oswego Road and Allen(s) Road, 1.6 miles east-southeast of Martha, in Bass River Township, Burlington County.
Prenanthes autumnalis	Pine Barren Rattlesnake-root			LP, HL	G4G5	S2		1985-09-11	Southwest of Dans Bridge on Dans Bridge Road. Ca. one mile north of Stage Road.
Rhynchospora cephalantha	Large-head Beaked-rush			LP, HL	G5	S3		1985-09-11	Southwest of Dans Bridge on Dans Bridge Road. Ca. one mile north of Stage Road.

**Immediate Vicinity of the Project Site
Based on Search of Natural Heritage Database
Rare Plant Species and Ecological Communities Currently Recorded in
the New Jersey Natural Heritage Database**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Regional Status	Grank	Srank	Identified	Last Observed	Location
<i>Utricularia purpurea</i>	Purple Bladderwort			LP, HL	G5	S3	Y	2009-08-25	2009: From Stage Road in Bass River State Park travel ca. .52 miles north on [French] Coal Road pull into small opening on west side of road and walk northeast to ditch; 0.6 mile north of intersection of Stage Road and French Coal Road, 1.7 miles northwest of where Stage Road crosses over the Garden State Parkway, located in Bass River Township, Burlington County.

Total number of records: 7

Nonvascular Plants

<i>Sphagnum cyclophyllum</i>	Sphagnum			HL	G3	S2	Y	1961-10-23	2010: New Gretna, 5 miles northwest, Route 563.
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Total number of records: 1

Terrestrial Community - Other Classification

Dwarf pinus rigida- quercus (marilandica, ilicifolia)/corema conradii shrubland	Pine Plains (Pp4/5)				G1	S1	Y	1987-05-29	East (lower) plains, S. of Oswego R., ca. 2 mi. N. of Munion field.
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**Immediate Vicinity of the Project Site
Based on Search of Natural Heritage Database
Rare Plant Species and Ecological Communities Currently Recorded in
the New Jersey Natural Heritage Database**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Regional Status	Grank	Srank	Identified	Last Observed	Location
Eleocharis (olivacea, microcarpa, robbinsii) - xyris (difformis var. difformis, smalliana) herbaceous vegetation	Spikerush (Smallfruit, Bright Green, Robbin's) - Yelloweyed Grass (Bog, Small's) Coastal Plain Intermittent Pond Herbaceous Vegetation				G2	S2	Y	2002-11-07	Site is 2 miles northeast of Leektown. From Leektown, travel east on Route 542 about 1 mile to Allens Road. Turn left (north) on Allens Road. Travel north on Allens Road 1.6 miles to first pond and 1.8 miles to second pond. One pond is directly east about 200 feet. The second pond is about 800 feet north of the first, just 75 feet east of the road.
Panicum rigidulum var. pubescens - dichanthelium sp. / sphagnum spp. herbaceous vegetation	Redtop Panicgrass - Rosette Grass / Sphagnum Moss Coastal Plain Intermittent Pond Herbaceous Vegetation				G2	S2	Y	2002-11-07	Site is 2 miles northeast of Leektown. From Leektown, travel east on Route 542 about 1 mile to Allens Road. Turn left (north) on Allens Road. Travel north on Allens Road 1.6 miles to first pond and 1.8 to second pond. One pond is directly east about 200 feet. The second pond is about 800 feet north of the first, just 75 feet east of the road.

Total number of records: 3

**Rare Wildlife Species or Wildlife Habitat Within the
Immediate Vicinity of the Project Site Based on Search of
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Amphibia</i>								
	Carpenter Frog	Lithobates virgatipes	Occupied Habitat	2	NA	Special Concern	G4	S3
	Fowler's Toad	Anaxyrus fowleri	Occupied Habitat	2	NA	Special Concern	G5	S3
	Pine Barrens Treefrog	Hyla andersonii	Breeding Sighting	3	NA	State Threatened	G4	S2
	Pine Barrens Treefrog	Hyla andersonii	Non-breeding Sighting	3	NA	State Threatened	G4	S2
	Pine Barrens Treefrog	Hyla andersonii	Occupied Habitat	3	NA	State Threatened	G4	S2
	Pine Barrens Treefrog	Hyla andersonii	Vernal Pool Breeding	3	NA	State Threatened	G4	S2
<i>Aves</i>								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Black-billed Cuckoo	Coccyzus erythrophthalmus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Common Nighthawk	Chordeiles minor	Breeding Sighting	2	NA	Special Concern	G5	S3B,S3N
	Common Tern	Sterna hirundo	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Glossy Ibis	Plegadis falcinellus	Foraging	2	NA	Special Concern	G5	S3B,S4N

**Rare Wildlife Species or Wildlife Habitat Within the
Immediate Vicinity of the Project Site Based on Search of
Landscape Project 3.3 Species Based Patches**

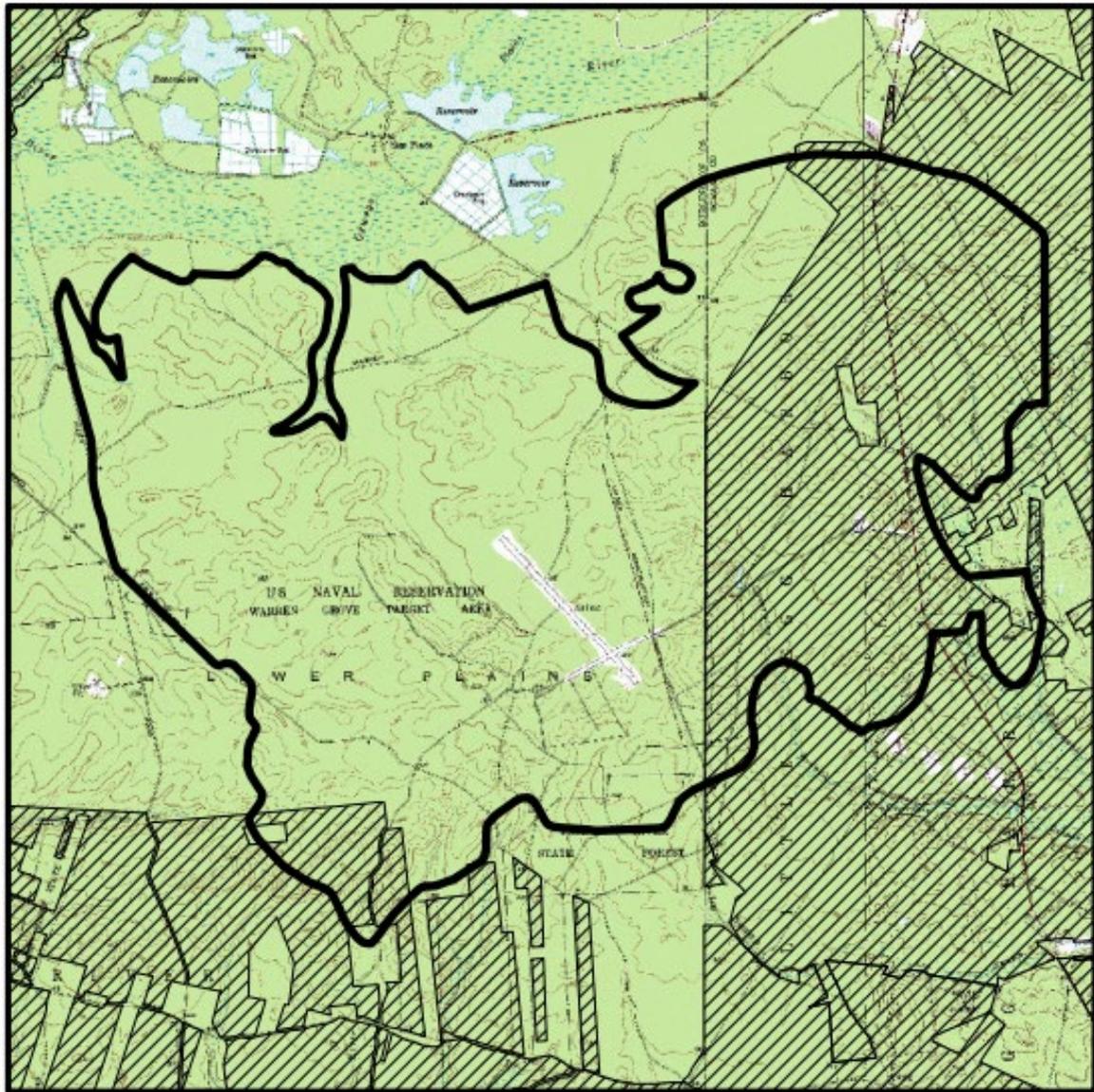
Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
	Little Blue Heron	Egretta caerulea	Foraging	2	NA	Special Concern	G5	S3B,S3N
	Northern Parula	Parula americana	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Snowy Egret	Egretta thula	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Tricolored Heron	Egretta tricolor	Foraging	2	NA	Special Concern	G5	S3B,S3N
	Whip-poor-will	Caprimulgus vociferus	Breeding Sighting	2	NA	Special Concern	G5	S3B,SUN
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
<i>Insecta</i>								
	Hessel's Hairstreak	Callophrys hesseli	Casual Flyby	2	NA	Special Concern	G3G4	S3
	Pine Barrens Bluet	Enallagma recurvatum	Occupied Habitat	2	NA	Special Concern	G3	S3
<i>Mammalia</i>								
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S2
<i>Reptilia</i>								
	Eastern Box Turtle	Terrapene carolina carolina	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Northern Pine Snake	Pituophis melanoleucus melanoleucus	Occupied Habitat	3	NA	State Threatened	G4T4	S2

Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
	Timber Rattlesnake	Crotalus horridus horridus	Occupied Habitat	4	NA	State Endangered	G4T4	S1

**Vernal Pool Habitat
In the Immediate Vicinity of
Project Site Based on Search of
Landscape Project 3.3**

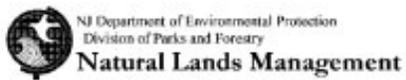
Vernal Pool Habitat Type	Vernal Pool Habitat ID
Vernal habitat area	2702
Vernal habitat area	2707
Potential vernal habitat area	708
Potential vernal habitat area	709
Potential vernal habitat area	761
Potential vernal habitat area	773
Potential vernal habitat area	795
Total number of records:	7



Natural Heritage Priority Site

East Plains

Burlington and Ocean Counties



4

Natural Heritage Priority Site
East Plains

Locational Information

Quad Name: Oswego Lake ; West Creek

County: Burlington ; Ocean

Municipality: Bass River Twp ; Little Egg Harbor Twp ; Stafford Twp ; Eagleswood Twp

Description of Site

An extensive dwarf pitch pine/scrub oak forest.

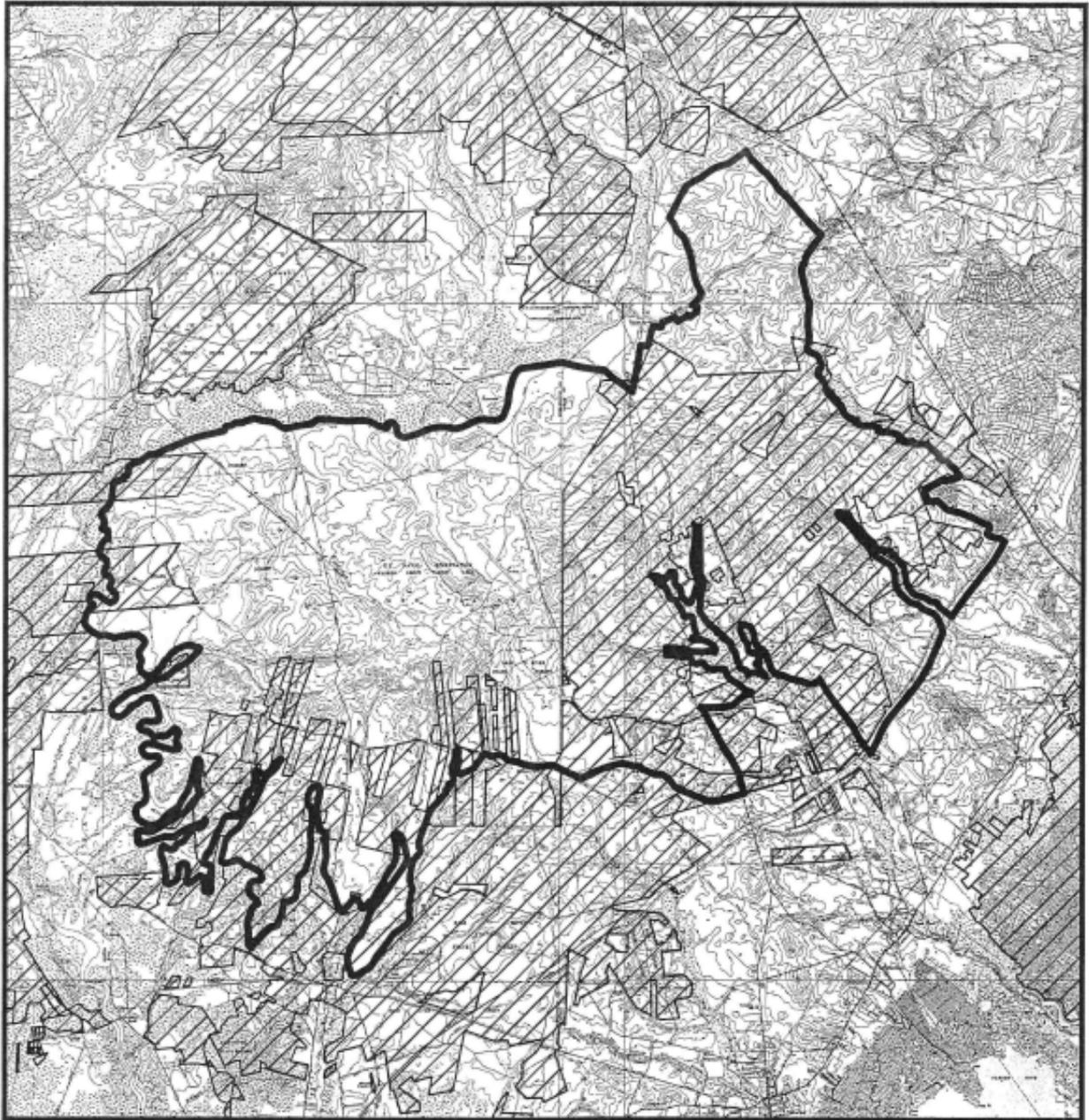
Boundary Justification

Primary boundaries follow those delineated by Givnish, 1980. As of 91-02-20 no secondary boundaries have been delineated for the standard site. Secondary bounds for macrosite should try to include the fireshed of the plains.

Biodiversity Rank B1

Exemplary stand of globally imperiled natural community. Also a number of globally rare plants and animals are present.

March, 2007
Site Code: S.USNJHP1*213



Natural Heritage Priority Site
East Plains Fireshed Macrosite
Burlington and Ocean Counties



Natural Heritage Priority Site
East Plains Fireshed Macrosite

Locational Information

Quad Name: West Creek ; Oswego Lake ; Brookville

County: Burlington ; Ocean

Municipality: Bass River Twp ; Eagleswood Twp ; Little Egg Harbor Twp ; Stafford Twp ; Barnegat Twp

Description of Site

A large patch of pitch pine-shrub oak barrens and pine plains in broad sandy uplands, interrupted by few wetlands.

Boundary Justification

Bounds drawn to include the fireshed containing the majority of fires that burn into the East Plains. Includes highly flammable pitch pine-shrub oak barrens and pine plains vegetation. Bordered by broad patches of wetlands or major roads or mesic forests which act as firebreaks.

Biodiversity Rank B1

This macrosite contains a globally imperiled natural community and a number of globally rare plants and animals. The site contains the land that supports the fire regime that sustains the pine plains vegetation of the East Plains.

March, 2007
Site Code: S.USNJHP1*2041

Frequently Asked Questions About The Natural Heritage Priority Sites GIS File

What are Natural Heritage Priority Sites?

Through its Natural Heritage Database, the Office of Natural Lands Management (ONLM) identifies critically important areas to conserve New Jersey's biological diversity, with particular emphasis on rare plant species and ecological communities. The database provides detailed information on rare species and ecological communities to planners, developers, and conservation agencies for use in resource management, environmental impact assessment, and both public and private land protection efforts.

Using the database, ONLM has identified 343 Natural Heritage Priority Sites, representing some of the best remaining habitat for rare species and rare ecological communities in the state. Although the primary focus of these sites is rare plant species and ecological communities, the DEP Endangered and Nongame Species Program also provided key information and assisted with the delineation of a number of the sites that encompass significant habitats for rare animals. These areas should be considered to be top priorities for the preservation of biological diversity in New Jersey. If these sites become degraded or destroyed, we may lose some of the unique components of our natural heritage.

How are Natural Heritage Priority Sites used in conservation of biological diversity?

Natural Heritage Priority Site maps are used by individuals and agencies concerned with the protection and management of land. The maps have been used by municipalities preparing natural resource inventories; public and private conservation organizations preparing open space acquisition goals; land developers and consultants identifying environmentally sensitive lands; and public and private landowners developing land management plans. However, the coverage was not developed for regulatory purposes, and should not be used as a substitute for the on-site surveys and Natural Heritage Database searches required by regulatory agencies.

Natural Heritage Priority Sites contain some of the best and most viable occurrences of rare plant species and ecological communities, but they do not cover all known habitat for these elements or most rare animal species in New Jersey. Most of the state has not been surveyed for rare species and ecological communities. If information is needed on whether or not endangered or threatened species have been documented from a

particular area, a Natural Heritage Database search can be requested by contacting the Office of Natural Lands Management.

What do the boundaries of the sites contain?

The boundaries of each Natural Heritage Priority Site are drawn to encompass critical habitat for the rare species or ecological communities. Often the boundaries extend to include additional buffer lands that should be managed to protect this critical habitat. A justification for the boundary is provided for each site.

Boundaries of site polygons may overlap. Site polygons may also be nested so that one site may be found entirely within a larger site. When viewing the shape file, a larger site may sometimes obscure a smaller site within it. Such confusion can be eliminated by highlighting the area of interest and checking the attribute table to reveal all sites within the selected area.

How was the GIS coverage developed?

The coverage was originally developed as lines on USGS topographic paper maps and subsequently edited to fit on either 1995/97 color infrared aerial imagery, 1991 black and white aerial imagery or scanned USGS 1:24,000 topographic maps as an ArcView shape file (NJ State Plane Coordinate System, NAD83). Within the Highlands Region the coverage was developed using the NJDEP 2002 Land use/Land cover: Highlands Study Area (DRAFT) coverage, and then subsequently edited using 2002 High Resolution Orthophotography, as well as scanned USGS 1:24,000 topographic maps, as references.

What attributes are included with the shape file?

(Note: Text fields in the attribute table are truncated at 254 characters. Therefore, some text may be deleted from the attribute table of some of the sites. The complete text for all the site records is contained in the **Prisites.rtf** file that is included in the Prisites Winzip distribution file.)

Identifying attributes – The Sitecode and Sitename fields are assigned by the Office of Natural Lands Management to track each site by a unique alphanumeric code and name. The Version field indicates the year and month of the current version of the Natural Heritage Priority Sites coverage.

Locational attributes – Information about where each

site is located can be found in the County, Quadname (US Geological Survey 7.5 minute topographic quadrangle map) and Municipali(ity) fields. More detailed information can be gathered by overlaying county and municipal coverages that are available from NJ DEP.

Descriptive attributes – A description of the site can be found in the Descriptio(n) field, while the Boundjust field contains a written justification for the site boundaries.

Significance attributes – The relative significance of each site is determined by assigning a biodiversity significance rank (Biodivrank). Justification for the rank can be found in the BiodivComm(ents) field. The Siteclass field indicates whether the site is categorized as a macrosite or a standard site. Standard sites are smaller in size (usually less than 3200 acres in size), while macrosites tend to be larger (usually greater than 3200 acres in size). It is not unusual to find several standard sites entirely contained within the boundaries of a macrosite.

What is the biodiversity significance rank and how is it used?

Each site is ranked according to its significance for biological diversity using a scale developed by The Nature Conservancy, the network of Natural Heritage Programs and the New Jersey Natural Heritage Program. The ranks can be used to distinguish between sites that are of global significance for conservation of biological diversity vs. those that are of state significance. The global biodiversity significance ranks range from B1 to B5. Within the Highlands Region the global biodiversity significance rank has been combined with a state biodiversity significance rank which provides information about the significance of the site on a state level. The state biodiversity significance ranks for sites in the Highlands Region range from V1 to V5. Therefore, all sites have been assigned a global biodiversity rank (B rank), but not all sites have been assigned a state biodiversity rank (V rank). The specific definitions for each rank are as follows:

B1 - Outstanding significance on a global level, generally the “last of the least” in the world, such as the only known occurrence of any element (species or ecological community), the best or an excellent occurrence of an element ranked critically imperiled globally, or a concentration (4+) of good or excellent occurrences of elements that are imperiled or critically imperiled globally. The site should be viable and defensible for the elements or ecological processes contained.

B2 - Very high significance on a global level, such as the

most outstanding occurrence of any ecological community. Also includes areas containing other occurrences of elements that are critically imperiled globally, a good or excellent occurrence of an element that is imperiled globally, an excellent occurrence of an element that is rare globally, or a concentration (4+) of good occurrences of globally rare elements or viable occurrences of globally imperiled elements.

B3 - High significance on a global level, such as any other viable occurrence of an element that is globally imperiled, a good occurrence of a globally rare element, an excellent occurrence of any ecological community, or a concentration (4+) of good or excellent occurrences of elements that are critically imperiled in the State.

B4 - Moderate significance on a global level, such as a viable occurrence of a globally rare element, a good occurrence of any ecological community, a good or excellent occurrence or only viable state occurrence of an element that is critically imperiled in the State, an excellent occurrence of an element that is imperiled in the State, or a concentration (4+) of good occurrences of elements that are imperiled in the State or excellent occurrences of elements that are rare in the State.

B5 - Of general biodiversity interest.

V1 - Outstanding significance on a state level. Only known occurrence in the state for an element **or** Site with an excellent occurrence or the best occurrence in the state for an element ranked critically imperiled in the state **or** a concentration (4+) of good or excellent occurrences of elements that are imperiled or critically imperiled in the state.

V2 - Very high significance on a state level. Includes sites containing other occurrences of elements that are critically imperiled in the state **or** a concentration (4+) of other occurrences of state imperiled elements and/or good or excellent occurrences of state rare elements.

V3 - High significance on a state level. Includes sites containing the best occurrence in the state or an excellent occurrence of a state imperiled element **or** multiple (2+) other occurrences for state imperiled elements and/or excellent, good or moderate quality occurrences of state rare elements.

V4 - Moderate significance on a state level. Includes sites containing the best occurrence in the state or an excellent occurrence of a state rare element **or** any site with other occurrences of a state imperiled element **or** multiple (2+) other occurrences of state rare elements.

V5 - Any site with any other occurrence of a state rare element.

How can I obtain Natural Heritage Priority Site maps for an area of interest to me?

Natural Heritage Priority Site hard copy maps can be obtained by submitting a written request accompanied by a check or money order made payable to the Office of Natural Lands Management at the following address:

Office of Natural Lands Management
 P.O. Box 404
 Trenton, NJ 08625-0404
 Phone: 609-984-1339; Fax: 609-984-1427

Individual 8.5" X 11" maps are available at the following rate:

1 - 10 site maps & reports:	\$1.50/site
11 - 20 site maps & reports:	\$1.00/site
> 20 sites:	\$0.50/site

Digital GIS Coverage of Natural Heritage Priority Sites

A digital version of the ArcView GIS file of Natural Heritage Priority Sites is also available. The 2007 version of Natural Heritage Priority Sites will be sent as an email attachment upon request. There is no charge for emailing the GIS data.

How often are the maps updated?

The Natural Heritage Priority Site information is constantly being updated in the Natural Heritage Database. A new edition of the maps will be made available after significant revisions or additions to the Database.

May 17, 2007



NJ Department of Environmental Protection
 Division of Parks and Forestry

Natural Lands Management

New Jersey Department of Environmental Protection New Jersey Native Plant Species List

**Developed by the DEP pursuant to:
P.L. 2017, c. 41
Act Concerning Use of Native Vegetation by DOT, NJTA and SJTA**

August 18, 2017

P.L. 2017, c. 41 (Act), signed into law May 1, 2017, mandated the following initial requirement for the New Jersey Department of Environmental Protection (DEP):

- a. No later than the 90th day after the date of enactment of this section, the Department of Environmental Protection, in consultation with the Division of Plant Industry in the Department of Agriculture, shall identify, for each plant hardiness zone, all of the particular species of vegetation that are native to the State, and that thrive in each plant hardiness zone of the State.

By August 1, 2017, the DEP is to promulgate the required native¹ plant species list (List), which is to include the input of the Division of Plant Industry within the Department of Agriculture regarding plant hardiness zone applicability. The Act further specifies that, no later than 180 days after enactment of the Act, the Department of Transportation (DOT), New Jersey Turnpike Authority (NJTA), and the South Jersey Transportation Authority (SJTA) are to plant only species included on the List for purposes of landscaping, land management, reforestation, or habitat restoration. Finally, the Act allows the above transportation agencies and authorities to apply to the DEP for exemptions to strict adherence to planting only those species included on the List.

The New Jersey Natural Heritage Program (NHP) within the DEP, Office of Natural Lands Management (ONLM), State Forestry Service, is part of an international network of biological inventories (NatureServe) operating in all 50 U.S. states, Canada, Latin America and the Caribbean that collect, analyze, and manage scientific information about plants and ecological communities of the Western Hemisphere. The NHP collects and maintains information about the location and status of rare plant species throughout New Jersey, conducts field surveys and performs research on rare plant species, is responsible for determining the eligibility of plant species for inclusion on New Jersey's codified Endangered Plant Species List (N.J.S.A. 7:5C et seq.), is the DEP's clearinghouse for locational data on all elements of biodiversity in NJ, and employs the only professional botanist in the DEP and in NJ state government. The draft List mandated by this Act that accompanies this narrative was initially developed by the NHP. The following provides information on the sources for the List as well as detail concerning its contents.

¹ Also referred to as indigenous plants, native plants includes those taxa (including full species, subspecies, varieties or natural hybrids) that occur naturally within a specific geographic area. A species may be native only to certain specific physiographic provinces, counties or habitats within a state. Therefore, both indigenous and nonindigenous populations may occur within a state. This and most subsequent definitions in footnotes obtained from Snyder, D. and S. R. Kaufman. 2004.

After consideration of several existing NJ plant species lists, the ONLM determined that the existing plant list developed in NJ for use in Floristic Quality Assessments (FQA) would be the best source for the List mandated in this Act. FQA is a statistical method, first developed in 1977 by Dr. Gerould Wilhelm, a botanist and research taxonomist based in the Chicago region (Wilhelm and Masters, 1995; Taft et al, 1997). The methodology was designed as a means to objectively evaluate the floristic integrity of sites. It is a tool used by scientists and land managers to distinguish differences in floristic quality between sites and to track changes in vegetation quality over time. For example, FQA may be used to assess the success of land management in achieving particular floristic objectives through its application in the field before and after such management. Application of FQA techniques requires development and use of a comprehensive list of both native and non-native vascular plant taxa, including all species, subspecies, varieties, and hybrids documented to date in New Jersey. The FQA list, also referred to as the checklist of the flora of New Jersey, has a long history leading to its development.

The first comprehensive checklist of the flora of New Jersey was published by the American botanist, taxonomist and co-founder of the New York Botanical Garden Nathaniel Lord Britton in 1889 (Britton 1881, 1889). The next checklist of the flora was compiled by Karl Anderson in 1979, and then went through several updates and iterations [1983, 1989 (Anderson, 1989) and online in 2009 and 2011]. Anderson developed his original published 1989 checklist by updating the nomenclature of, and integrating the catalogues prepared by, N.L. Britton (1889), Witmer Stone (1911), Norman Taylor (1915), published field reports by the Torrey Botanical Club and Philadelphia Botanical Club, other published lists of local flora, as well as his own personal observations. Anderson's 1989 checklist included 2,696 plants, of which 1,980 were native to NJ.

In 2006 the NHP updated Anderson's 1989 checklist for use in floristic quality assessments. The NHP and Bowman's Hill Wildflower Preserve in PA coordinated a three-day meeting in April 2006 with a panel of expert local botanists led by Karl Anderson and moderated by Dr. Wilhelm. The resulting list included 2,117 native plants and 818 non-native plants. The list was then posted on the Bowman's Hill Wildflower Preserve's Plant Stewardship Index website for use in floristic quality assessments.

Subsequent revisions to the 2006 FQA list were completed in 2011 by Karl Anderson and Linda Kelly with updated taxonomy based on USDA Plants (<http://plants.usda.gov>), resulting in 2,183 native and 882 non-native taxa. In 2016-2017 another comprehensive review of the FQA list was completed by the NHP in the form of a report on FQA prepared for the U.S. Environmental Protection Agency. This checklist included 2,055 native vascular plants (including native species, subspecies, varieties, hybrids) and 939 non-native plants.

It should be noted that the FQA checklist of NJ flora reflects an ongoing effort to document, with voucher specimens, the entire native and nonnative flora of the state. New botanical discoveries are made yearly. The taxonomic nomenclature² is constantly being updated and documented in USDA Plants Database (USDA, PLANTS, 2017), Biota of North America Program (Kartesz, BONAP, 2017), and Integrated Taxonomic Information System (2017). The checklist therefore

¹ The science of describing, identifying, naming, and classifying biological organisms based on shared characteristics.

represents a “snapshot” in time of the flora of the state, and does not represent the complete flora of New Jersey.

The List developed pursuant to the Act contains a subset of the native species culled from the entire FQA checklist of both native and non-native vascular³ plant taxa, including all species, varieties, subspecies, and hybrids documented to date in New Jersey. David Snyder, NHP Botanist, reviewed the latest checklist and made corrections to nativity status based on his extensive work on the flora of the state, herbarium records, the Natural Heritage (Biotics) database maintained by the NHP, and collection of voucher specimens.

The List includes only those vascular taxa considered native to New Jersey; all non-native plant taxa were removed. In addition, all 818 (797 vascular, 21 nonvascular⁴) plant species currently tracked as rare and listed as State Endangered or plant species of concern were removed from the List (see below). Species that are listed only by variety or subspecies indicate that the specific variety or subspecies are the only native taxa for that species in NJ. Growth form designation (if activated on spreadsheet) was obtained from the USDA Plants database (USDA, PLANTS, 2017) with some modifications specific to NJ based on professional judgement. For example, if a species growth form is listed as Tree and Shrub by the USDA Plants database, but is only found growing as a shrub in NJ, then the growth form is listed as Shrub.

Rare plants tracked by the NHP (<http://www.state.nj.us/dep/parksandforests/natural/heritage/spplant.html>) are excluded from the List because they are not suitable candidates for propagation or planting by the transportation agencies included in the Act or by any other agencies except under very special and well researched circumstances. Rare plant species occur naturally in the landscape in habitats that have evolved over millennia, and propagation and planting as native cultivars/nativars⁵ for landscaping or restoration projects would have severe implications for natural occurrences. Among the reasons not to include rare species in landscaping, land management, reforestation, or habitat restoration projects: Regulatory (DEP Land Use Regulations do not distinguish between native and non-native populations of rare plants); Biological (unintended genetic mixing of reintroduced populations with native populations, resulting in loss of original locally evolved genetic stock and the natural evolution of the species); Botanical (current and future field botanists may not be able to distinguish natural occurrences from planted occurrences). Many states have policies that prohibit the propagation and sale of native rare plants.

All native New Jersey plants are mapped by the USDA in Plant Hardiness Zones 6 and 7, with average annual extreme minimum temperatures reported as 6a (-10 to -5° F) in northwestern counties only, 6b (-5 to 0° F) and 7a (0 to 5° F) statewide, and 7b (6 to 10° F) in limited areas on

2 Vascular plant means any of numerous plants, including the seed plants and the ferns, having well-developed vascular tissues consisting of phloem to transport sucrose and other organic nutrients and xylem to transport water and minerals.

3 Nonvascular plants includes a division of nonflowering plants characterized by rhizoids rather than true roots and having little or no organized vascular tissue and showing alternation of generations between gamete-bearing forms and spore-bearing forms; comprises true mosses, liverworts, and hornworts.

4 Cultivar is a variety of a plant developed from a natural species and maintained under cultivation. Nativar is one term for a cultivar of a native species. Like all cultivars, nativars are the result of artificial selections made by humans from the natural variation found in species. Nativars are almost always propagated vegetatively to preserve their selected trait(s), which means they no longer participate in natural reproduction patterns that would maintain genetic diversity.

the Atlantic coast and Delaware Bay. The USDA Plant Hardiness Zone Map for New Jersey is available at: <http://planthardiness.ars.usda.gov/PHZMWeb/Images/300dpi/NJ.jpg>

It is worth noting that most plant species on the List are not suitable for planting by transportation agencies for purposes of landscaping, land management, reforestation, or habitat restoration. With the exception of rare plants tracked by the NHP (see above), the List adheres to the requirement in the Act that the List include “all of the particular species of vegetation that are native to the State.” The DEP is not advocating that transportation corridors be planted in poison ivy, poison sumac, stinging nettle and other noxious or irritating vegetation. Further, the vast majority of species on the List are not commercially available for purchase by these agencies. DOT, NJTA and SJTA should review the List to determine if species currently planted by these agencies are not native to the state. These agencies are encouraged to consult the DEP and the Department of Agriculture to identify a subset of listed species that may be suitable and commercially available for their use.

The enclosed List includes 1,233 native vascular plants. By growth form this includes 86 trees, 117 shrubs, 2 subshrubs, 43 vines, 298 graminoids, and 687 herbs. The List is comprised of full species, subspecies, varieties, and natural hybrids. Growth form definitions can be found at: https://plants.usda.gov/growth_habits_def.html.

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**New Jersey Department of Environmental Protection
New Jersey Native Plant Species List**

**Developed by the DEP pursuant to:
P.L. 2017, c. 41**

Scientific Name	Common Name	Growth Habit
<i>Acalypha gracilens</i>	Slender three-seeded mercury	Herb
<i>Acalypha ostryifolia</i>	Hornbeam-leaved three-seeded mercury	Herb
<i>Acalypha rhomboidea</i>	Common three-seeded mercury	Herb
<i>Acalypha virginica</i>	Virginia three-seeded mercury	Herb
<i>Acer negundo</i>	Box-elder	Tree
<i>Acer nigrum</i>	Black maple	Tree
<i>Acer pensylvanicum</i>	Striped maple	Tree
<i>Acer rubrum var. drummondii</i>	Drummond's maple	Tree
<i>Acer rubrum var. rubrum</i>	Red maple	Tree
<i>Acer rubrum var. trilobum</i>	Trident red maple	Tree
<i>Acer saccharinum</i>	Silver maple	Tree
<i>Acer saccharum</i>	Sugar maple	Tree
<i>Acer spicatum</i>	Mountain maple	Tree
<i>Actaea pachypoda</i>	White baneberry	Herb
<i>Actaea racemosa var. racemosa</i>	Black cohosh	Herb
<i>Adiantum pedatum</i>	Northern maidenhair	Herb
<i>Agalinis maritima</i>	Seaside gerardia	Herb
<i>Agalinis purpurea</i>	False-foxglove	Herb
<i>Agalinis setacea</i>	Thread- leaved gerardia	Herb
<i>Agalinis tenuifolia</i>	Slenderleaf false foxglove	Herb
<i>Ageratina altissima var. altissima</i>	White snakeroot	Herb
<i>Agrimonia gryposepala</i>	Tall hairy agrimony	Herb
<i>Agrimonia parviflora</i>	Harvestlice	Herb
<i>Agrimonia pubescens</i>	Downy agrimony	Herb
<i>Agrimonia rostellata</i>	Beaked agrimony	Herb
<i>Agrimonia striata</i>	Woodland agrimony	Herb
<i>Agrostis hyemalis</i>	Hairgrass	Graminoid
<i>Agrostis perennans</i>	Upland bentgrass	Graminoid
<i>Aletris farinosa</i>	Colic-root	Herb
<i>Alisma subcordatum</i>	American water-plantain	Herb
<i>Allium canadense</i>	Wild onion	Herb
<i>Allium tricoccum</i>	Wild leek	Herb
<i>Alnus incana</i>	Speckled alder	Shrub
<i>Alnus serrulata</i>	Smooth alder	Shrub

Scientific Name	Common Name	Growth Habit
<i>Amaranthus cannabinus</i>	Water hemp	Herb
<i>Ambrosia artemisiifolia</i>	Common ragweed	Herb
<i>Ambrosia trifida</i>	Giant ragweed	Herb
<i>Amelanchier arborea</i>	Common service-berry	Tree
<i>Amelanchier canadensis</i>	Canadian service-berry	Tree
<i>Amelanchier laevis</i>	Allegheny service-berry	Tree
<i>Amelanchier obovalis</i>	Coastal service-berry	Shrub
<i>Amelanchier x intermedia</i>	Serviceberry	Tree
<i>Ammophila breviligulata</i>	American beachgrass	Graminoid
<i>Amphicarpaea bracteata</i>	Hog peanut	Vine
<i>Amphicarpum purshii</i>	Pursh's millet-grass	Graminoid
<i>Anaphalis margaritacea</i>	Pearly everlasting	Herb
<i>Andropogon gerardii</i>	Big bluestem	Graminoid
<i>Andropogon glomeratus</i>	Bushy bluestem	Graminoid
<i>Andropogon virginicus var. virginicus</i>	Broomsedge	Graminoid
<i>Anemone quinquefolia</i>	Wood anemone	Herb
<i>Anemone virginiana</i>	Tall thimbleweed	Herb
<i>Angelica atropurpurea</i>	Purple-stemmed angelica	Herb
<i>Antennaria howellii subsp. neodioica</i>	Howell's pussytoes	Herb
<i>Antennaria howellii subsp. petaloidea</i>	Small pussytoes	Herb
<i>Antennaria neglecta</i>	Overlooked pussytoe	Herb
<i>Antennaria parlinii subsp. fallax</i>	Parlin's pussytoes	Herb
<i>Antennaria parlinii subsp. parlinii</i>	Parlin's pussytoes	Herb
<i>Antennaria plantaginifolia</i>	Plantain-leaved pussytoes	Herb
<i>Apios americana</i>	Ground-nut	Vine
<i>Apocynum androsaemifolium</i>	Pink dogbane	Herb
<i>Apocynum cannabinum</i>	Indian-hemp	Herb
<i>Apocynum x floribundum</i>	Intermediate dogbane	Herb
<i>Aquilegia canadensis</i>	Wild columbine	Herb
<i>Arabis canadensis</i>	Sicklepod	Herb
<i>Arabis glabra</i>	Tower rockcress	Herb
<i>Arabis laevigata</i>	Smooth rockcress	Herb
<i>Arabis lyrata</i>	Lyre-leaved rockcress	Herb
<i>Aralia nudicaulis</i>	Wild sarsaparilla	Herb
<i>Aralia racemosa</i>	Spikenard	Herb
<i>Arctostaphylos uva-ursi</i>	Bearberry	Herb
<i>Arisaema dracontium</i>	Green-dragon	Herb
<i>Arisaema triphyllum subsp. pusillum</i>	Small Jack-in-the-pulpit	Herb
<i>Arisaema triphyllum subsp. triphyllum</i>	Jack-in-the-pulpit	Herb
<i>Aristida longespica var. geniculata</i>	Slender threeawn	Graminoid
<i>Aristida longespica var. longespica</i>	Slender threeawn	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Aristida oligantha</i>	Prairie threeawn	Graminoid
<i>Aristida purpurascens</i>	Arrow-feather three-awn	Graminoid
<i>Aristida tuberculosa</i>	Sea-beach Three-awn	Graminoid
<i>Aronia arbutifolia</i>	Red chokeberry	Shrub
<i>Aronia melanocarpa</i>	Black chokeberry	Shrub
<i>Aronia prunifolia</i>	Purple chokeberry	Shrub
<i>Asarum canadense</i>	Canadian wild ginger	Herb
<i>Asclepias amplexicaulis</i>	Blunt-leaved milkweed	Herb
<i>Asclepias exaltata</i>	Poke milkweed	Herb
<i>Asclepias incarnata</i> subsp. <i>incarnata</i>	Swamp milkweed	Herb
<i>Asclepias incarnata</i> subsp. <i>pulchra</i>	Swamp milkweed	Herb
<i>Asclepias purpurascens</i>	Purple milkweed	Herb
<i>Asclepias syriaca</i>	Common milkweed	Herb
<i>Asclepias tuberosa</i>	Butterfly-weed	Herb
<i>Asclepias viridiflora</i>	Green milkweed	Herb
<i>Asplenium platyneuron</i>	Ebony spleenwort	Herb
<i>Asplenium rhizophyllum</i>	Walking fern	Herb
<i>Asplenium trichomanes</i> subsp. <i>quadrivalens</i>	Maidenhair spleenwort	Herb
<i>Asplenium trichomanes</i> subsp. <i>trichomanes</i>	Maidenhair spleenwort	Herb
<i>Asplenium x ebenoides</i>	Scott's spleenwort	Herb
<i>Asplenium x trudellii</i>	Trudell's spleenwort	Herb
<i>Athyrium filix-femina</i> subsp. <i>angustum</i>	Subarctic lady fern	Herb
<i>Athyrium filix-femina</i> subsp. <i>asplenioides</i>	Asplenium lady fern	Herb
<i>Atriplex cristata</i>	Crested saltbush	Herb
<i>Atriplex prostrata</i>	Halberd-leaved orach	Herb
<i>Aureolaria flava</i>	Smooth false foxglove	Herb
<i>Aureolaria pedicularia</i>	Fernleaf yellow false foxglove	Herb
<i>Aureolaria virginica</i>	Downy false-foxglove	Herb
<i>Baccharis halimifolia</i>	Groundsel-tree	Shrub
<i>Baptisia tinctoria</i>	Wild indigo	Herb
<i>Bartonia paniculata</i>	Screwstem	Herb
<i>Bartonia virginica</i>	Bartonia	Herb
<i>Betula alleghaniensis</i>	Yellow birch	Tree
<i>Betula lenta</i>	Black birch	Tree
<i>Betula nigra</i>	River birch	Tree
<i>Betula populifolia</i>	Gray birch	Tree
<i>Bidens bipinnata</i>	Spanish needles	Herb
<i>Bidens cernua</i>	Bur-marigold	Herb
<i>Bidens connata</i>	Purple-stemmed beggar -ticks	Herb
<i>Bidens coronata</i>	Tickseed-sunflower	Herb
<i>Bidens discoidea</i>	Small beggar-ticks	Herb

Scientific Name	Common Name	Growth Habit
<i>Bidens frondosa</i>	Beggar-ticks	Herb
<i>Bidens laevis</i>	Showy bur-marigold	Herb
<i>Bidens vulgata</i>	Big devils beggarticks	Herb
<i>Boehmeria cylindrica</i>	False nettle	Herb
<i>Boltonia asteroides var. asteroides</i>	White doll's daisy	Herb
<i>Botrychium dissectum</i>	Cut-leaved grape-fern	Herb
<i>Botrychium matricariifolium</i>	Matricary grape fern	Herb
<i>Botrychium simplex</i>	Little grapefern	Herb
<i>Botrychium virginianum</i>	Rattlesnake fern	Herb
<i>Brachyelytrum aristosum</i>	Northern short-husk	Graminoid
<i>Brachyelytrum erectum</i>	Bearded short-husk	Graminoid
<i>Brasenia schreberi</i>	Water shield	Herb
<i>Bromus pubescens</i>	Hairy brome	Graminoid
<i>Bulbostylis capillaris</i>	Densetuft hairsedge	Graminoid
<i>Cakile edentula</i>	Sea rocket	Herb
<i>Calamagrostis canadensis var. canadensis</i>	Canada bluejoint	Graminoid
<i>Calamagrostis canadensis var. macouniana</i>	Canada bluejoint	Graminoid
<i>Calamagrostis coarctata</i>	Arctic reedgrass	Graminoid
<i>Calamovilfa brevipilis</i>	Pine Barrens reed grass	Graminoid
<i>Callitriche heterophylla</i>	Larger water-starwort	Herb
<i>Calopogon tuberosus</i>	Grass-pink	Herb
<i>Caltha palustris</i>	Marsh-marigold	Herb
<i>Calystegia sepium subsp. americanum</i>	Hedge false bindweed	Vine
<i>Calystegia sepium subsp. angulata</i>	Hedge false bindweed	Vine
<i>Campanula aparinoides</i>	Marsh bellflower	Herb
<i>Campanula rotundifolia</i>	Harebell	Herb
<i>Campsis radicans</i>	Trumpet creeper	Vine
<i>Cardamine bulbosa</i>	Bittercress	Herb
<i>Cardamine concatenata</i>	Cutleaf toothwort	Herb
<i>Cardamine parviflora var. arenicola</i>	Small-flowered bittercress	Herb
<i>Cardamine pensylvanica</i>	Pennsylvania bittercress	Herb
<i>Carex abscondita</i>	Thicket sedge	Graminoid
<i>Carex alata</i>	Broad-winged sedge	Graminoid
<i>Carex albicans var. albicans</i>	White-tinged sedge	Graminoid
<i>Carex albicans var. emmonsii</i>	Emmons' sedge	Graminoid
<i>Carex albolutescens</i>	Greenish-white sedge	Graminoid
<i>Carex amphibola</i>	Eastern narrow-leaf sedge	Graminoid
<i>Carex annectens</i>	Yellow fruited sedge	Graminoid
<i>Carex appalachica</i>	Appalachian stellate sedge	Graminoid
<i>Carex argyrantha</i>	Hay sedge	Graminoid
<i>Carex atlantica subsp. atlantica</i>	Atlantic sedge	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Carex atlantica subsp. capillacea</i>	Howe's sedge	Graminoid
<i>Carex barrattii</i>	Barratt's sedge	Graminoid
<i>Carex blanda</i>	Woodland sedge	Graminoid
<i>Carex brevior</i>	Short sedge	Graminoid
<i>Carex bromoides</i>	Brome-like sedge	Graminoid
<i>Carex bullata</i>	Button sedge	Graminoid
<i>Carex canescens subsp. disjuncta</i>	Silvery sedge	Graminoid
<i>Carex cephalophora</i>	Sedge	Graminoid
<i>Carex collinsii</i>	Collins' sedge	Graminoid
<i>Carex communis</i>	Fibrous-rooted sedge	Graminoid
<i>Carex comosa</i>	Bristly sedge	Graminoid
<i>Carex complanata</i>	Flattened sedge	Graminoid
<i>Carex crinita var. brevicrinis</i>	Fringed sedge	Graminoid
<i>Carex crinita var. crinita</i>	Fringed sedge	Graminoid
<i>Carex cristatella</i>	Crested sedge	Graminoid
<i>Carex davisii</i>	Davis' sedge	Graminoid
<i>Carex debilis var. debilis</i>	White-edged sedge	Graminoid
<i>Carex debilis var. interjecta</i>	White-edged sedge	Graminoid
<i>Carex debilis var. pubera</i>	White-edged sedge	Graminoid
<i>Carex debilis var. rudgei</i>	White-edged sedge	Graminoid
<i>Carex digitalis</i>	Slender woodland sedge	Graminoid
<i>Carex echinata</i>	Star sedge	Graminoid
<i>Carex emoryi</i>	Emory's sedge	Graminoid
<i>Carex exilis</i>	Coast sedge	Graminoid
<i>Carex festucacea</i>	Fescue sedge	Graminoid
<i>Carex flaccosperma</i>	Thinfruit sedge	Graminoid
<i>Carex flava</i>	Yellow sedge	Graminoid
<i>Carex folliculata</i>	Long sedge	Graminoid
<i>Carex frankii</i>	Frank's sedge	Graminoid
<i>Carex glaucoidea</i>	Blue sedge	Graminoid
<i>Carex gracilescens</i>	Slender loose-flowered sedge	Graminoid
<i>Carex gracillima</i>	Graceful sedge	Graminoid
<i>Carex granularis</i>	Limestone meadow sedge	Graminoid
<i>Carex grayi</i>	Gray's sedge	Graminoid
<i>Carex grisea</i>	Sedge	Graminoid
<i>Carex gynandra</i>	Nodding sedge	Graminoid
<i>Carex hirsutella</i>	Fuzzy wuzzy sedge	Graminoid
<i>Carex hirtifolia</i>	Pubescent sedge	Graminoid
<i>Carex hormathodes</i>	Marsh straw sedge	Graminoid
<i>Carex hystericina</i>	Porcupine sedge	Graminoid
<i>Carex interior</i>	Inland sedge	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Carex intumescens</i>	Bladder sedge	Graminoid
<i>Carex lacustris</i>	Lake-bank sedge	Graminoid
<i>Carex laevivaginata</i>	Smooth-sheathed sedge	Graminoid
<i>Carex laxiculmis</i>	Spreading sedge	Graminoid
<i>Carex laxiflora</i>	Loose-flowered sedge	Graminoid
<i>Carex leptalea subsp. leptalea</i>	Bristlystalked sedge	Graminoid
<i>Carex livida</i>	Livid sedge	Graminoid
<i>Carex longii</i>	Long's sedge	Graminoid
<i>Carex lucorum</i>	Sedge	Graminoid
<i>Carex lupulina</i>	Hop sedge	Graminoid
<i>Carex lurida</i>	Sallow sedge	Graminoid
<i>Carex molesta</i>	Troublesome sedge	Graminoid
<i>Carex muehlenbergii</i>	Muhlenberg's sedge	Graminoid
<i>Carex nigromarginata</i>	Black-edged sedge	Graminoid
<i>Carex normalis</i>	Large straw sedge	Graminoid
<i>Carex pedunculata</i>	Long-stalked sedge	Graminoid
<i>Carex pellita</i>	Woolly sedge	Graminoid
<i>Carex pensylvanica</i>	Pennsylvania sedge	Graminoid
<i>Carex platyphylla</i>	Broad-leaf sedge	Graminoid
<i>Carex prasina</i>	Drooping sedge	Graminoid
<i>Carex projecta</i>	Necklace sedge	Graminoid
<i>Carex radiata</i>	Stellate sedge	Graminoid
<i>Carex retroflexa</i>	Reflexed sedge	Graminoid
<i>Carex rosea</i>	Rose sedge	Graminoid
<i>Carex scabrata</i>	Rough sedge	Graminoid
<i>Carex scoparia</i>	Broom sedge	Graminoid
<i>Carex seorsa</i>	Weak stellate sedge	Graminoid
<i>Carex sparganioides</i>	Bur-reed sedge	Graminoid
<i>Carex sprengei</i>	Long-beaked sedge	Graminoid
<i>Carex squarrosa</i>	Squarrose sedge	Graminoid
<i>Carex stipata var. stipata</i>	Owlfruit sedge	Graminoid
<i>Carex straminea</i>	Eastern straw sedge	Graminoid
<i>Carex striata var. brevis</i>	Walter's sedge	Graminoid
<i>Carex striatula</i>	Striate sedge	Graminoid
<i>Carex stricta</i>	Tussock sedge	Graminoid
<i>Carex styloflexa</i>	Bent sedge	Graminoid
<i>Carex swanii</i>	Swan's sedge	Graminoid
<i>Carex tetanica</i>	Rigid sedge	Graminoid
<i>Carex tonsa</i>	Sedge	Graminoid
<i>Carex torta</i>	Twisted sedge	Graminoid
<i>Carex tribuloides</i>	Blunt broom sedge	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Carex trichocarpa</i>	Hairy-fruited sedge	Graminoid
<i>Carex trisperma</i>	Three fruited sedge	Graminoid
<i>Carex umbellata</i>	Umbellate sedge	Graminoid
<i>Carex venusta</i>	Dark green sedge	Graminoid
<i>Carex vesicaria</i>	Inflated sedge	Graminoid
<i>Carex vestita</i>	Velvet sedge	Graminoid
<i>Carex virescens</i>	Ribbed sedge	Graminoid
<i>Carex viridula</i>	Little green sedge	Graminoid
<i>Carex vulpinoidea</i>	Fox sedge	Graminoid
<i>Carpinus caroliniana</i>	American hornbeam	Tree
<i>Carya cordiformis</i>	Bitternut hickory	Tree
<i>Carya glabra</i>	Pignut hickory	Tree
<i>Carya ovalis</i>	Sweet Pignut Hickory	Tree
<i>Carya ovata</i>	Shagbark hickory	Tree
<i>Carya pallida</i>	Sand Hickory	Tree
<i>Carya tomentosa</i>	Mockernut hickory	Tree
<i>Castanea dentata</i>	American chestnut	Tree
<i>Caulophyllum thalictroides</i>	Blue cohosh	Herb
<i>Ceanothus americanus</i>	New Jersey tea	Shrub
<i>Celastrus scandens</i>	American bittersweet	Vine
<i>Celtis occidentalis</i>	Hackberry	Tree
<i>Cenchrus longispinus</i>	Sandbur	Graminoid
<i>Cenchrus tribuloides</i>	Dune sandbur	Graminoid
<i>Cephalanthus occidentalis</i>	Buttonbush	Shrub
<i>Cerastium arvense</i>	Field chickweed	Herb
<i>Cerastium nutans</i>	Nodding chickweed	Herb
<i>Ceratophyllum demersum</i>	Coontail	Herb
<i>Chamaecrista fasciculata</i>	Partridge-pea	Herb
<i>Chamaecrista nictitans</i>	Wild sensitive-plant	Herb
<i>Chamaecyparis thyoides</i>	Atlantic white-cedar	Tree
<i>Chamaedaphne calyculata</i>	Leatherleaf	Shrub
<i>Chamaesyce maculata</i>	Spotted spurge	Herb
<i>Chamaesyce nutans</i>	Eyebane	Herb
<i>Chamaesyce polygonifolia</i>	Seaside sandmat	Herb
<i>Chamaesyce vermiculata</i>	Wormseed sandmat	Herb
<i>Chasmanthium laxum</i>	Slender spike-grass	Graminoid
<i>Chelone glabra</i>	Turtlehead	Herb
<i>Chenopodium album</i> var. <i>missouriense</i>	Lamb's quarters	Herb
<i>Chenopodium berlandieri</i> var. <i>boscianum</i>	Pitseed goosefoot	Herb
<i>Chenopodium berlandieri</i> var. <i>bushianum</i>	Pigweed	Herb
<i>Chenopodium capitatum</i>	Blite goosefoot	Herb

Scientific Name	Common Name	Growth Habit
<i>Chimaphila maculata</i>	Pipsissewa	Herb
<i>Chimaphila umbellata</i>	Pipsissewa	Herb
<i>Chrysopsis mariana</i>	Golden aster	Herb
<i>Chrysosplenium americanum</i>	Golden saxifrage	Herb
<i>Cicuta bulbifera</i>	Bulblet-bearing water-hemlock	Herb
<i>Cicuta maculata</i>	Spotted water hemlock	Herb
<i>Cinna arundinacea</i>	Wood reedgrass	Graminoid
<i>Circaea alpina</i>	Small enchanter's-nightshade	Herb
<i>Circaea lutetiana</i>	Broad-leaf enchanter's-nightshade	Herb
<i>Cirsium discolor</i>	Field thistle	Herb
<i>Cirsium horridulum</i>	Yellow thistle	Herb
<i>Cirsium muticum</i>	Swamp thistle	Herb
<i>Cirsium pumilum</i>	Pasture thistle	Herb
<i>Cladium mariscoides</i>	Twig-rush	Graminoid
<i>Claytonia virginica</i> var. <i>virginica</i>	Virginia springbeauty	Herb
<i>Clematis virginiana</i>	Virgin's-bower	Vine
<i>Clethra alnifolia</i>	Sweet pepperbush	Shrub
<i>Clinopodium vulgare</i>	Wild basil	Herb
<i>Clintonia umbellulata</i>	White clintonia	Herb
<i>Collinsonia canadensis</i>	Horse balm	Herb
<i>Comandra umbellata</i>	Bastard toadflax	Herb
<i>Comptonia peregrina</i>	Sweet-fern	Shrub
<i>Conopholis americana</i>	Squaw-root	Herb
<i>Conyza canadensis</i> var. <i>canadensis</i>	Canadian horseweed	Herb
<i>Conyza canadensis</i> var. <i>pusilla</i>	Canadian horseweed	Herb
<i>Coptis trifolia</i>	Goldthread	Herb
<i>Corallorhiza maculata</i>	Spotted coralroot	Herb
<i>Corallorhiza odontorhiza</i>	Autumn coralroot	Herb
<i>Cornus alternifolia</i>	Alternate-leaved dogwood	Shrub
<i>Cornus amomum</i>	Silky dogwood	Shrub
<i>Cornus florida</i>	Flowering dogwood	Tree
<i>Cornus racemosa</i>	Grey dogwood	Shrub
<i>Cornus rugosa</i>	Round-leaved dogwood	Shrub
<i>Cornus sericea</i>	Red-osier dogwood	Shrub
<i>Corydalis flavula</i>	Yellow fumewort	Herb
<i>Corydalis sempervirens</i>	Rock harlequin	Herb
<i>Corylus americana</i>	American hazelnut	Shrub
<i>Corylus cornuta</i>	Beaked hazelnut	Shrub
<i>Crataegus crus-galli</i>	Cockspur hawthorn	Tree
<i>Crataegus intricata</i>	Biltmore hawthorn	Shrub

Scientific Name	Common Name	Growth Habit
<i>Crataegus macrosperma</i>	Big-fruited hawthorne	Shrub
<i>Crataegus pruinosa</i>	Waxy-fruit hawthorne	Shrub
<i>Crataegus uniflora</i>	Dwarf hawthorne	Shrub
<i>Crotalaria sagittalis</i>	Rattlebox	Herb
<i>Cryptotaenia canadensis</i>	Honewort	Herb
<i>Cunila origanoides</i>	Common dittany	Herb
<i>Cuscuta compacta</i>	Dodder	Vine
<i>Cuscuta gronovii</i>	Common dodder	Vine
<i>Cuscuta indecora</i> var. <i>neuropetala</i>	Bigseed alfalfa dodder	Vine
<i>Cuscuta pentagona</i> var. <i>pentagona</i>	Fiveangled dodder	Vine
<i>Cyperus bipartitus</i>	Slender flatsedge	Graminoid
<i>Cyperus dentatus</i>	Toothed flatsedge	Graminoid
<i>Cyperus diandrus</i>	Umbrella flatsedge	Graminoid
<i>Cyperus echinatus</i>	Globe flatsedge	Graminoid
<i>Cyperus erythrorhizos</i>	Redroot flatsedge	Graminoid
<i>Cyperus esculentus</i>	Yellow nutsedge	Graminoid
<i>Cyperus filicinus</i>	Fern flatsedge	Graminoid
<i>Cyperus flavescens</i>	Yellow flatsedge	Graminoid
<i>Cyperus grayi</i>	Gray's flatsedge	Graminoid
<i>Cyperus lupulinus</i> subsp. <i>lupulinus</i>	Great Plains flatsedge	Graminoid
<i>Cyperus lupulinus</i> subsp. <i>macilentus</i>	Great Plains flatsedge	Graminoid
<i>Cyperus retrorsus</i>	Pine barrens flatsedge	Graminoid
<i>Cyperus squarrosus</i>	Bearded flatsedge	Graminoid
<i>Cyperus strigosus</i>	Straw-colored flatsedge	Graminoid
<i>Cypripedium acaule</i>	Pink lady's-slipper	Herb
<i>Cypripedium calceolus</i>	Yellow lady's-slipper	Herb
<i>Cypripedium parviflorum</i> var. <i>parviflorum</i>	Lesser yellow lady's-slipper	Herb
<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Greater yellow lady's-slipper	Herb
<i>Cystopteris bulbifera</i>	Bulblet bladder fern	Herb
<i>Cystopteris tenuis</i>	Fragile fern	Herb
<i>Danthonia compressa</i>	Flattened Wild Oat-grass	Graminoid
<i>Danthonia sericea</i>	Silky Wild Oat-grass	Graminoid
<i>Danthonia spicata</i>	Common Wild Oat-grass	Graminoid
<i>Dasiphora fruticosa</i> subsp. <i>floribunda</i>	Shrubby Cinquefoil	Shrub
<i>Decodon verticillatus</i>	Water-willow	Shrub
<i>Dennstaedtia punctilobula</i>	Hay-scented fern	Herb
<i>Deparia acrostichoides</i>	Silvery glade fern	Herb
<i>Deschampsia flexuosa</i>	Common hair grass	Graminoid
<i>Desmodium canadense</i>	Showy tick-trefoil	Herb
<i>Desmodium canescens</i>	Hoary tick-trefoil	Herb
<i>Desmodium ciliare</i>	Tick-clover	Herb

Scientific Name	Common Name	Growth Habit
<i>Desmodium glabellum</i>	Dillenius' tick-trefoil	Herb
<i>Desmodium glutinosum</i>	Sticky tick-trefoil	Herb
<i>Desmodium marilandicum</i>	Maryland tick-clover	Herb
<i>Desmodium nudiflorum</i>	Naked-flowered tick-trefoil	Herb
<i>Desmodium obtusum</i>	Tick-trefoil	Herb
<i>Desmodium paniculatum</i>	Tick-trefoil	Herb
<i>Desmodium perplexum</i>	Perplexing tick-trefoil	Herb
<i>Desmodium rotundifolium</i>	Round-leaved tick-trefoil	Herb
<i>Dicentra cucullaria</i>	Dutchman's-breeches	Herb
<i>Dichanthelium acuminatum var. fasciculatum</i>	Western panicgrass	Graminoid
<i>Dichanthelium acuminatum var. lindheimeri</i>	Lindheimer panicgrass	Graminoid
<i>Dichanthelium boscii</i>	Bosc's panicgrass	Graminoid
<i>Dichanthelium clandestinum</i>	Deertongue	Graminoid
<i>Dichanthelium commutatum</i>	Variable panicgrass	Graminoid
<i>Dichanthelium depauperatum</i>	Starved panicgrass	Graminoid
<i>Dichanthelium dichotomum var. dichotomum</i>	Cypress panicgrass	Graminoid
<i>Dichanthelium dichotomum var. ensifolium</i>	Cypress panicgrass	Graminoid
<i>Dichanthelium latifolium</i>	Broadleaf rosette grass	Graminoid
<i>Dichanthelium linearifolium</i>	Slimleaf panicgrass	Graminoid
<i>Dichanthelium meridionale</i>	Matting rosette grass	Graminoid
<i>Dichanthelium ovale var. addisonii</i>	Addison's rosette grss	Graminoid
<i>Dichanthelium ovale var. ovale</i>	Eggleaf rosette grass	Graminoid
<i>Dichanthelium sabulorum var. patulum</i>	Hemlock panic grass	Graminoid
<i>Dichanthelium sabulorum var. thinium</i>	Hemlock rosette grass	Graminoid
<i>Dichanthelium scoparium</i>	Velvet panicum	Graminoid
<i>Dichanthelium sphaerocarpon var. isophyllum</i>	Roundseed panicgrass	Graminoid
<i>Dichanthelium sphaerocarpon var. sphaerocarpon</i>	Roundseed panicgrass	Graminoid
<i>Dichanthelium spretum</i>	Eaton's panic grass	Graminoid
<i>Dichanthelium villosissimum var. villosissimum</i>	Whitehair rosette grass	Graminoid
<i>Diervilla lonicera</i>	Bush-honeysuckle	Shrub
<i>Digitaria cognata</i>	Fall witchgrass	Graminoid
<i>Digitaria filiformis</i>	Slender crabgrass	Graminoid
<i>Diodia teres</i>	Rough buttonweed	Shrub
<i>Dioscorea villosa</i>	Wild yam	Vine
<i>Diospyros virginiana</i>	Persimmon	Tree
<i>Distichlis spicata</i>	Marsh spike-grass	Graminoid
<i>Doellingeria umbellata var. umbellata</i>	Parasol whitetop	Herb
<i>Drosera filiformis</i>	Thread-leaved sundew	Herb
<i>Drosera intermedia</i>	Spatulate-leaved sundew	Herb
<i>Drosera rotundifolia</i>	Round-leaved sundew	Herb
<i>Dryopteris carthusiana</i>	Spinulose wood fern	Herb

Scientific Name	Common Name	Growth Habit
<i>Dryopteris cristata</i>	Crested shield fern	Herb
<i>Dryopteris intermedia</i>	Evergreen wood fern	Herb
<i>Dryopteris marginalis</i>	Marginal wood fern	Herb
<i>Dryopteris x boottii</i>	Boott's hybrid wood fern	Herb
<i>Dryopteris x slossoniae</i>	Miss Slosson's hybrid wood fern	Herb
<i>Dryopteris x triploidea</i>	Triploid hybrid wood fern	Herb
<i>Dulichium arundinaceum</i>	Three-way sedge	Graminoid
<i>Echinochloa muricata</i> var. <i>muricata</i>	Rough barnyard grass	Graminoid
<i>Echinochloa walteri</i>	Coast cockspur grass	Graminoid
<i>Echinocystis lobata</i>	Prickly cucumber	Vine
<i>Eclipta prostrata</i>	False daisy	Herb
<i>Eleocharis acicularis</i>	Needle spike-rush	Graminoid
<i>Eleocharis aestuum</i>	Tidal spikerush	Graminoid
<i>Eleocharis engelmannii</i>	Engelmann's spike rush	Graminoid
<i>Eleocharis fallax</i>	Creeping spike-rush	Graminoid
<i>Eleocharis flavescens</i>	Yellow spike-rush	Graminoid
<i>Eleocharis microcarpa</i>	Small-fruit spike-rush	Graminoid
<i>Eleocharis obtusa</i>	Blunt spike-rush	Graminoid
<i>Eleocharis olivacea</i> var. <i>olivacea</i>	Bright green spike-rush	Graminoid
<i>Eleocharis ovata</i>	Ovate Spike-rush	Graminoid
<i>Eleocharis palustris</i>	Creeping spike-rush	Graminoid
<i>Eleocharis parvula</i>	Dwarf spike-rush	Graminoid
<i>Eleocharis robbinsii</i>	Robbins' spike rush	Graminoid
<i>Eleocharis rostellata</i>	Beaked spike rush	Graminoid
<i>Eleocharis tenuis</i> var. <i>pseudoptera</i>	Slender spike-rush	Graminoid
<i>Eleocharis tenuis</i> var. <i>tenuis</i>	Slender spike-rush	Graminoid
<i>Eleocharis tricostata</i>	Three-ribbed spike-rush	Graminoid
<i>Eleocharis tuberculosa</i>	Long-tubercled spike-rush	Graminoid
<i>Elodea canadensis</i>	Ditch-moss	Herb
<i>Elodea nuttallii</i>	Waterweed	Herb
<i>Elymus canadensis</i>	Canada wild-rye	Graminoid
<i>Elymus hystrix</i>	Bottlebrush-grass	Graminoid
<i>Elymus riparius</i>	Riverbank wild-rye	Graminoid
<i>Elymus villosus</i>	Downy wild-rye	Graminoid
<i>Elymus virginicus</i>	Virginia wild-rye	Graminoid
<i>Epifagus virginiana</i>	Beechdrops	Herb
<i>Epigaea repens</i>	Trailing-arbutus	Herb
<i>Epilobium ciliatum</i>	Willow-herb	Herb
<i>Epilobium coloratum</i>	Purple-leaved willow-herb	Herb
<i>Equisetum arvense</i>	Field horsetail	Herb
<i>Equisetum fluviatile</i>	Water horsetail	Herb

Scientific Name	Common Name	Growth Habit
<i>Equisetum hyemale</i>	Scouring-rush	Herb
<i>Equisetum x ferrissii</i>	Intermediate scouring-rush	Herb
<i>Equisetum x litorale</i>	Shore horsetail	Herb
<i>Eragrostis capillaris</i>	Lacegrass	Graminoid
<i>Eragrostis hypnoides</i>	Smooth creeping love-grass	Graminoid
<i>Eragrostis pectinacea</i>	Carolina love-grass	Graminoid
<i>Eragrostis spectabilis</i>	Purple love-grass	Graminoid
<i>Erechtites hieraciifolius var. hieraciifolius</i>	American burnweed	Herb
<i>Erigeron annuus</i>	Daisy fleabane	Herb
<i>Erigeron philadelphicus</i>	Philadelphia fleabane	Herb
<i>Erigeron pulchellus</i>	Robin's-plantain	Herb
<i>Erigeron strigosus</i>	Daisy fleabane	Herb
<i>Eriocaulon aquaticum</i>	Seven-angled pipewort	Herb
<i>Eriocaulon compressum</i>	Flattened pipewort	Herb
<i>Eriocaulon decangulare</i>	Ten-angled pipewort	Herb
<i>Eriophorum virginicum</i>	Tawny cotton-grass	Graminoid
<i>Erythronium americanum</i>	Yellow trout-lily	Herb
<i>Eubotrys racemosus</i>	Fetter-bush	Shrub
<i>Euonymus americanus</i>	Hearts-a-bursting	Shrub
<i>Eupatorium album var. album</i>	White boneset	Herb
<i>Eupatorium album var. subvenosum</i>	White boneset	Herb
<i>Eupatorium altissimum</i>	Tall boneset	Herb
<i>Eupatorium hyssopifolium var. calcaratum</i>	Hyssop-leaved thoroughwort	Herb
<i>Eupatorium hyssopifolium var. hyssopifolium</i>	Hyssop-leaved thoroughwort	Herb
<i>Eupatorium hyssopifolium var. laciniatum</i>	Hyssop-leaved thoroughwort	Herb
<i>Eupatorium leucolepis</i>	White-bracted boneset	Herb
<i>Eupatorium perfoliatum</i>	Boneset	Herb
<i>Eupatorium pilosum</i>	Rough boneset	Herb
<i>Eupatorium rotundifolium var. cordigerum</i>	Roundleaf thoroughwort	Herb
<i>Eupatorium rotundifolium var. ovatum</i>	Roundleaf thoroughwort	Herb
<i>Eupatorium rotundifolium var. rotundifolium</i>	Roundleaf thoroughwort	Herb
<i>Eupatorium serotinum</i>	Late eupatorium	Herb
<i>Eupatorium sessilifolium var. sessilifolium</i>	Upland boneset	Herb
<i>Euphorbia ipecacuanhae</i>	Ipecac spurge	Herb
<i>Eurybia compacta</i>	Slender aster	Herb
<i>Eurybia divaricata</i>	White wood aster	Herb
<i>Eurybia macrophylla</i>	Bigleaf aster	Herb
<i>Eurybia schreberi</i>	Schreber's aster	Herb
<i>Eurybia spectabilis</i>	Showy aster	Herb
<i>Eurybia x herveyi</i>	Hervey's aster	Herb
<i>Euthamia caroliniana</i>	Slender goldentop	Herb

Scientific Name	Common Name	Growth Habit
<i>Euthamia graminifolia</i>	Flat-top goldentop	Herb
<i>Eutrochium dubium</i>	Coastal plain joe-pye weed	Herb
<i>Eutrochium fistulosum</i>	Trumpetweed	Herb
<i>Eutrochium maculatum</i>	Spotted joe-pye-weed	Herb
<i>Eutrochium purpureum var. purpureum</i>	Sweet-scented joe-pye weed	Herb
<i>Fagus grandifolia</i>	American beech	Tree
<i>Festuca rubra</i>	Red fescue	Graminoid
<i>Festuca subverticillata</i>	Nodding fescue	Graminoid
<i>Fimbristylis autumnalis</i>	Slender fimbry	Graminoid
<i>Floerkea proserpinacoides</i>	False-mermaid	Herb
<i>Fragaria vesca subsp. americana</i>	Woodland strawberry	Herb
<i>Fragaria virginiana</i>	Virginia strawberry	Herb
<i>Fraxinus americana</i>	White ash	Tree
<i>Fraxinus nigra</i>	Black ash	Tree
<i>Fraxinus pennsylvanica</i>	Green ash	Tree
<i>Fuirena pumila</i>	Smooth fuirena	Graminoid
<i>Galactia regularis</i>	Eastern milk-pea	Vine
<i>Galearis spectabilis</i>	Showy orchis	Herb
<i>Galium aparine</i>	Stickywilly	Herb
<i>Galium asprellum</i>	Rough bedstraw	Herb
<i>Galium circaezans</i>	Licorice bedstraw	Herb
<i>Galium lanceolatum</i>	Lanceleaf wild licorice	Herb
<i>Galium obtusum</i>	Bluntleaf bedstraw	Herb
<i>Galium pilosum</i>	Hairy bedstraw	Herb
<i>Galium tinctorium</i>	Stiff marsh bedstraw	Herb
<i>Galium triflorum</i>	Fragrant bedstraw	Herb
<i>Gamochaeta purpurea</i>	Purple cudweed	Herb
<i>Gaultheria procumbens</i>	Teaberry	Herb
<i>Gaylussacia baccata</i>	Black huckleberry	Shrub
<i>Gaylussacia dumosa</i>	Dwarf huckleberry	Shrub
<i>Gaylussacia frondosa</i>	Dangleberry	Shrub
<i>Gentiana clausa</i>	Bottle gentian	Herb
<i>Gentianopsis crinita</i>	Eastern fringed gentian	Herb
<i>Geranium carolinianum</i>	Wild geranium	Herb
<i>Geranium maculatum</i>	Wood geranium	Herb
<i>Geranium robertianum</i>	Herb-robert	Herb
<i>Geum aleppicum</i>	Yellow avens	Herb
<i>Geum canadense</i>	White avens	Herb
<i>Geum laciniatum</i>	Rough avens	Herb
<i>Geum rivale</i>	Water avens	Herb
<i>Geum vernum</i>	Spring avens	Herb

Scientific Name	Common Name	Growth Habit
<i>Geum virginianum</i>	Virginia avens	Herb
<i>Glyceria acutiflora</i>	Sharp-scaled manna grass	Graminoid
<i>Glyceria canadensis</i>	Rattlesnake manna grass	Graminoid
<i>Glyceria melicaria</i>	Long manna grass	Graminoid
<i>Glyceria obtusa</i>	Blunt manna grass	Graminoid
<i>Glyceria septentrionalis</i>	Floating manna grass	Graminoid
<i>Glyceria striata</i>	Fowl manna grass	Graminoid
<i>Goodyera pubescens</i>	Downy rattlesnake-plantain	Herb
<i>Gratiola aurea</i>	Golden hedge hyssop	Herb
<i>Gratiola neglecta</i>	Hedge hyssop	Herb
<i>Hackelia virginiana</i>	Virginia stickseed	Herb
<i>Hamamelis virginiana</i>	Witch-hazel	Shrub
<i>Hedeoma pulegioides</i>	American false pennyroyal	Herb
<i>Helenium autumnale</i>	Common sneezeweed	Herb
<i>Helianthemum canadense</i>	Long-branched frostweed	Herb
<i>Helianthemum propinquum</i>	Pine barrens frostweed	Herb
<i>Helianthus angustifolius</i>	Narrow-leaf sunflower	Herb
<i>Helianthus decapetalus</i>	Thin-leaved sunflower	Herb
<i>Helianthus divaricatus</i>	Rough sunflower	Herb
<i>Helianthus giganteus</i>	Swamp sunflower	Herb
<i>Helianthus strumosus</i>	Pale-leaf woodland sunflower	Herb
<i>Helianthus tuberosus</i>	Jerusalem artichoke	Herb
<i>Heliopsis helianthoides</i> var. <i>helianthoides</i>	Smooth ox-eye	Herb
<i>Hepatica nobilis</i> var. <i>obtusata</i>	Roundlobe hepatica	Herb
<i>Heracleum maximum</i>	Common cowparsnip	Herb
<i>Heteranthera dubia</i>	Grassleaf mudplantain	Herb
<i>Heteranthera multiflora</i>	Bouquet mud-plantain	Herb
<i>Heteranthera reniformis</i>	Mud-plantain	Herb
<i>Heuchera americana</i>	Alum-root	Herb
<i>Hibiscus moscheutos</i>	Rose-mallow	Herb
<i>Hieracium gronovii</i>	queendevil	Herb
<i>Hieracium paniculatum</i>	Panicled hawkweed	Herb
<i>Hieracium scabrum</i>	Rough hawkweed	Herb
<i>Hieracium venosum</i>	Rattlesnake-weed	Herb
<i>Hierochloa odorata</i>	Sweet grass	Graminoid
<i>Houstonia caerulea</i>	Bluets	Herb
<i>Houstonia purpurea</i>	Purple bluets	Herb
<i>Hudsonia ericoides</i>	Golden heather	Herb
<i>Hudsonia tomentosa</i>	Beach heather	Herb
<i>Humulus lupulus</i> var. <i>lupuloides</i>	Brewer's hops	Vine
<i>Huperzia lucidula</i>	Shining clubmoss	Herb

Scientific Name	Common Name	Growth Habit
<i>Hydrangea arborescens</i>	Sevenbark	Shrub
<i>Hydrocotyle americana</i>	Marsh pennywort	Herb
<i>Hydrocotyle umbellata</i>	Manyflower marsh pennywort	Herb
<i>Hydrophyllum virginianum</i>	Virginia waterleaf	Herb
<i>Hypericum boreale</i>	Northern St. John's-wort	Herb
<i>Hypericum canadense</i>	Canadian St. John's-wort	Herb
<i>Hypericum crux-andreae</i>	St. Peterswort	Shrub
<i>Hypericum densiflorum</i>	Bushy St. John's-wort	Shrub
<i>Hypericum denticulatum</i>	Coppery St. John's-wort	Herb
<i>Hypericum dissimulatum</i>	Disguised St. John's-wort	Herb
<i>Hypericum gentianoides</i>	Orange-grass	Herb
<i>Hypericum hypericoides subsp. hypericoides</i>	St. Andrew's cross	Herb
<i>Hypericum hypericoides subsp. multicaule</i>	St. Andrew's cross	Herb
<i>Hypericum mutilum</i>	Dwarf St. John's-wort	Herb
<i>Hypericum punctatum</i>	Spotted St. John's-wort	Herb
<i>Hypoxis hirsuta</i>	Yellow star-grass	Herb
<i>Ilex glabra</i>	Inkberry	Shrub
<i>Ilex laevigata</i>	Smooth winterberry	Shrub
<i>Ilex mucronata</i>	Catberry	Shrub
<i>Ilex opaca</i>	American holly	Tree
<i>Ilex verticillata</i>	Winterberry	Shrub
<i>Impatiens capensis</i>	Jewelweed	Herb
<i>Impatiens pallida</i>	Pale jewelweed	Herb
<i>Ionactis linariifolius</i>	Stiff-leaved aster	Herb
<i>Ipomoea pandurata</i>	Man-of-the-earth	Vine
<i>Iris prismatica</i>	Slender blue flag	Herb
<i>Iris versicolor</i>	Northern blue flag	Herb
<i>Isoetes acadensis</i>	Acadian quillwort	Herb
<i>Isoetes engelmannii</i>	Engelmann's quillwort	Herb
<i>Isoetes riparia var. amesii</i>	Ames' quillwort	Herb
<i>Isoetes tenella</i>	Spiny-spored quillwort	Herb
<i>Isoetes x eatonii</i>	Eaton's quillwort	Herb
<i>Isoetes x fairbrothersii</i>	Fairbrothers' quillwort	Herb
<i>Isotria verticillata</i>	Whorled-pogonia	Herb
<i>Itea virginica</i>	Virginia Willow	Shrub
<i>Iva frutescens</i>	Marsh elder	Shrub
<i>Juglans nigra</i>	Black walnut	Tree
<i>Juncus acuminatus</i>	Sharp-fruited rush	Graminoid
<i>Juncus biflorus</i>	Grass rush	Graminoid
<i>Juncus bufonius</i>	Toad rush	Graminoid
<i>Juncus canadensis</i>	Canada rush	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Juncus debilis</i>	Weak rush	Graminoid
<i>Juncus dichotomus</i>	Forked rush	Graminoid
<i>Juncus effusus</i> var. <i>pylaei</i>	Common rush	Graminoid
<i>Juncus effusus</i> var. <i>solutus</i>	Lamp Rush	Graminoid
<i>Juncus gerardii</i>	Blackfoot rush	Graminoid
<i>Juncus marginatus</i>	Grass-leaved rush	Graminoid
<i>Juncus militaris</i>	Bayonet rush	Graminoid
<i>Juncus pelocarpus</i>	Brown-fruited rush	Graminoid
<i>Juncus scirpoides</i>	Sedge rush	Graminoid
<i>Juncus secundus</i>	Lopsided rush	Graminoid
<i>Juncus subcaudatus</i>	Woodland rush	Graminoid
<i>Juncus tenuis</i>	Poverty rush	Graminoid
<i>Juniperus virginiana</i>	Eastern red-cedar	Tree
<i>Justicia americana</i>	Water-willow	Herb
<i>Kalmia angustifolia</i>	Sheep laurel	Shrub
<i>Kalmia latifolia</i>	Mountain laurel	Shrub
<i>Kosteletzkya pentacarpos</i>	Virginia saltmarsh mallow	Herb
<i>Krigia biflora</i>	Twoflower dwarf dandelion	Herb
<i>Krigia virginica</i>	Virginia dwarf dandelion	Herb
<i>Kyllinga gracillima</i>	Pasture spikesedge	Graminoid
<i>Lachnanthes caroliana</i>	Redroot	Herb
<i>Lactuca biennis</i>	Blue lettuce	Herb
<i>Lactuca canadensis</i>	Canada lettuce	Herb
<i>Lactuca floridana</i>	Woodland lettuce	Herb
<i>Laportea canadensis</i>	Wood-nettle	Herb
<i>Larix laricina</i>	American larch	Tree
<i>Lathyrus japonicus</i> var. <i>maritimus</i>	Beach pea	Vine
<i>Lathyrus japonicus</i> var. <i>pellitus</i>	Beach pea	Vine
<i>Lathyrus palustris</i>	Marsh pea	Herb
<i>Lechea maritima</i>	Beach pinweed	Herb
<i>Lechea minor</i>	Thyme-leaf pinweed	Herb
<i>Lechea mucronata</i>	Hairy pinweed	Herb
<i>Lechea pulchella</i>	Leggett's pinweed	Herb
<i>Lechea racemulosa</i>	Oblong-fruit pinweed	Herb
<i>Leersia oryzoides</i>	Rice cutgrass	Graminoid
<i>Leersia virginica</i>	White grass	Graminoid
<i>Leiophyllum buxifolium</i>	Sand myrtle	Shrub
<i>Lemna minor</i>	Duckweed	Herb
<i>Lepidium virginicum</i>	Virginia pepperweed	Herb
<i>Lespedeza angustifolia</i>	Narrow-leaved bush-clover	Herb
<i>Lespedeza capitata</i>	Roundhead lespedeza	Herb

Scientific Name	Common Name	Growth Habit
<i>Lespedeza frutescens</i>	Shrubby lespedeza	Herb
<i>Lespedeza hirta subsp. hirta</i>	Hairy lespedeza	Herb
<i>Lespedeza procumbens</i>	Trailing bush-clover	Herb
<i>Lespedeza repens</i>	Creeping bush-clover	Herb
<i>Lespedeza violacea</i>	Violet lespedeza	Herb
<i>Lespedeza virginica</i>	Slender bush-clover	Herb
<i>Lespedeza x brittonii</i>	Britton's lespedeza	Herb
<i>Lespedeza x nuttallii</i>	Nuttall's bush-clover	Herb
<i>Lespedeza x simulata</i>	Bush-clover	Herb
<i>Liatris pilosa</i>	Grass-leaved blazing star	Herb
<i>Lilaeopsis chinensis</i>	Lilaeopsis	Herb
<i>Lilium canadense</i>	Canada lily	Herb
<i>Lilium superbum</i>	Turk's-cap lily	Herb
<i>Limonium carolinianum</i>	Sea lavender	Herb
<i>Lindera benzoin</i>	Spicebush	shrub
<i>Lindernia dubia var. anagallidea</i>	Yellowseed false pimpernel	Herb
<i>Lindernia dubia var. dubia</i>	Yellowseed false pimpernel	Herb
<i>Linum medium</i>	Yellow flax	Herb
<i>Linum striatum</i>	Ridged yellow flax	Herb
<i>Liparis liliifolia</i>	Lily-leaved twayblade	Herb
<i>Liparis loeselii</i>	Yellow twayblade	Herb
<i>Liquidambar styraciflua</i>	Sweetgum	Tree
<i>Liriodendron tulipifera</i>	Tuliptree	Tree
<i>Listera australis</i>	Southern twayblade	Herb
<i>Lobelia cardinalis</i>	Cardinal-flower	Herb
<i>Lobelia inflata</i>	Indian-tobacco	Herb
<i>Lobelia kalmii</i>	Kalm's lobelia	Herb
<i>Lobelia nuttallii</i>	Nuttall's lobelia	Herb
<i>Lobelia puberula</i>	Downy lobelia	Herb
<i>Lobelia siphilitica</i>	Great blue lobelia	Herb
<i>Lobelia spicata</i>	Palespike lobelia	Herb
<i>Lonicera dioica</i>	Mountain honeysuckle	Vine
<i>Lonicera sempervirens</i>	Trumpet honeysuckle	Vine
<i>Lophiola aurea</i>	Goldencrest	Herb
<i>Ludwigia alternifolia</i>	Seedbox	Herb
<i>Ludwigia palustris</i>	Marsh-purslane	Herb
<i>Ludwigia sphaerocarpa</i>	Round-pod water Primrose	Herb
<i>Luzula bulbosa</i>	Woodrush	Graminoid
<i>Luzula echinata</i>	Common woodrush	Graminoid
<i>Luzula multiflora</i>	Field woodrush	Graminoid
<i>Lycopodiella alopecuroides</i>	Foxtail clubmoss	Herb

Scientific Name	Common Name	Growth Habit
<i>Lycopodiella appressa</i>	Southern bog clubmoss	Herb
<i>Lycopodium clavatum</i>	Running clubmoss	Herb
<i>Lycopodium dendroideum</i>	Tree groundpine	Herb
<i>Lycopodium digitatum</i>	Fan clubmoss	Herb
<i>Lycopodium obscurum</i>	Rare clubmoss	Herb
<i>Lycopodium tristachyum</i>	Deeprout clubmoss	Herb
<i>Lycopus americanus</i>	Water-horehound	Herb
<i>Lycopus amplexans</i>	Clasping-leaved water-horehound	Herb
<i>Lycopus uniflorus</i>	Northern bugleweed	Herb
<i>Lycopus virginicus</i>	Virginia water horehound	Herb
<i>Lyonia ligustrina</i>	Maleberry	Shrub
<i>Lyonia mariana</i>	Staggerbush	Shrub
<i>Lysimachia ciliata</i>	Fringed loosestrife	Herb
<i>Lysimachia quadrifolia</i>	Whorled loosestrife	Herb
<i>Lysimachia terrestris</i>	Swamp-candles	Herb
<i>Lysimachia x producta</i>	Loosestrife	Herb
<i>Magnolia virginiana</i>	Sweet-bay magnolia	Tree
<i>Maianthemum canadense</i>	Canada mayflower	Herb
<i>Maianthemum racemosum subsp. racemosum</i>	False solomon's seal	Herb
<i>Maianthemum stellatum</i>	Starry false solomon's seal	Herb
<i>Malus coronaria</i>	Sweet crab apple	Tree
<i>Matteuccia struthiopteris</i>	Ostrich fern	Herb
<i>Medeola virginiana</i>	Indian cucumber-root	Herb
<i>Melampyrum lineare</i>	Narrowleaf cowwheat	Herb
<i>Menispermum canadense</i>	Moonseed	Vine
<i>Mentha arvensis</i>	Wild mint	Herb
<i>Mikania scandens</i>	Climbing hempweed	Vine
<i>Mimulus alatus</i>	Winged monkey-flower	Herb
<i>Mimulus ringens</i>	Allegheny monkeyflower	Herb
<i>Minuartia caroliniana</i>	Pine barrens sandwort	Herb
<i>Mitchella repens</i>	Partridge-berry	Herb
<i>Mitella diphylla</i>	Twoleaf miterwort	Herb
<i>Mitella prostrata</i>	Creeping Bishop's-cap	Herb
<i>Moehringia lateriflora</i>	Blunt-leaved sandwort	Herb
<i>Monarda fistulosa</i>	Wild bergamot	Herb
<i>Monarda punctata</i>	Spotted bee-balm	Herb
<i>Monotropa hypopitys</i>	Pinesap	Herb
<i>Monotropa uniflora</i>	Indian-pipe	Herb
<i>Morella caroliniensis</i>	Southern bayberry	Shrub
<i>Morella cerifera</i>	Wax myrtle	Shrub

Scientific Name	Common Name	Growth Habit
<i>Morella pensylvanica</i>	Northern bayberry	Shrub
<i>Morus rubra</i>	Red mulberry	Tree
<i>Muhlenbergia frondosa</i>	Wirestem muhly	Graminoid
<i>Muhlenbergia mexicana</i>	Mexican muhly	Graminoid
<i>Muhlenbergia schreberi</i>	Nimblewill	Graminoid
<i>Muhlenbergia sobolifera</i>	Rock muhly	Graminoid
<i>Muhlenbergia tenuiflora</i>	Slimflower muhly	Graminoid
<i>Muhlenbergia uniflora</i>	Late-flowering dropseed	Graminoid
<i>Myosotis laxa</i>	Wild forget-me-not	Herb
<i>Myriophyllum humile</i>	Water-milfoil	Herb
<i>Najas flexilis</i>	Northern water nymph	Herb
<i>Nuphar lutea subsp. advena</i>	Spatterdock	Herb
<i>Nuphar lutea subsp. rubrodisca</i>	Red-disk yellow pond lily	Herb
<i>Nuphar lutea subsp. variegata</i>	Variegated yellow pond-lily	Herb
<i>Nuttallanthus canadensis</i>	Blue toadflax	Herb
<i>Nymphaea odorata subsp. odorata</i>	Fragrant water-lily	Herb
<i>Nyssa biflora</i>	Swamp tupelo	Tree
<i>Nyssa sylvatica</i>	Sourgum	Tree
<i>Oclemena acuminata</i>	Whorled wood aster	Herb
<i>Oclemena nemoralis</i>	Bog aster	Herb
<i>Oclemena x blakei</i>	Blake's aster	Herb
<i>Oenothera biennis</i>	Evening-primrose	Herb
<i>Oenothera fruticosa</i>	Sundrops	Herb
<i>Oenothera laciniata</i>	Cut-leaved evening-primrose	Herb
<i>Oenothera nutans</i>	Evening-primrose	Herb
<i>Oenothera parviflora</i>	Small-flowered evening primrose	Herb
<i>Oenothera perennis</i>	Sundrops	Herb
<i>Oldenlandia uniflora</i>	Clustered bluets	Herb
<i>Onoclea sensibilis</i>	Sensitive fern	Herb
<i>Opuntia humifusa</i>	Eastern prickly-pear cactus	Shrub
<i>Orobanche uniflora</i>	Broom-rape	Herb
<i>Orontium aquaticum</i>	Goldenclub	Herb
<i>Osmorhiza claytonii</i>	Sweet-cicely	Herb
<i>Osmorhiza longistylis</i>	Anise root	Herb
<i>Osmunda cinnamomea var. cinnamomea</i>	Cinnamon fern	Herb
<i>Osmunda claytoniana</i>	Interrupted fern	Herb
<i>Osmunda regalis</i>	Royal fern	Herb
<i>Ostrya virginiana</i>	Hop-hornbeam	Tree
<i>Oxalis dillenii</i>	Southern yellow wood-sorrel	Herb
<i>Oxalis stricta</i>	Common yellow wood-sorrel	Herb

Scientific Name	Common Name	Growth Habit
<i>Oxalis violacea</i>	Violet wood-sorrel	Herb
<i>Oxypolis rigidior</i>	Cowbane	Herb
<i>Packera aurea</i>	Golden ragwort	Herb
<i>Packera obovata</i>	Roundleaf ragwort	Herb
<i>Panax trifolius</i>	Dwarf ginseng	Herb
<i>Panicum amarum</i> var. <i>amarum</i>	Bitter panicgrass	Graminoid
<i>Panicum anceps</i>	Beaked panicgrass	Graminoid
<i>Panicum capillare</i>	Witchgrass	Graminoid
<i>Panicum dichotomiflorum</i>	Fall panicgrass	Graminoid
<i>Panicum philadelphicum</i>	Philadelphia panicgrass	Graminoid
<i>Panicum rigidulum</i> var. <i>elongatum</i>	Redtop panicgrass	Graminoid
<i>Panicum rigidulum</i> var. <i>pubescens</i>	Redtop panicgrass	Graminoid
<i>Panicum rigidulum</i> var. <i>rigidulum</i>	Redtop panicgrass	Graminoid
<i>Panicum verrucosum</i>	Warty panicgrass	Graminoid
<i>Panicum virgatum</i>	Switchgrass	Graminoid
<i>Parietaria pensylvanica</i>	Pellitory	Herb
<i>Parnassia glauca</i>	Grass-of-parnassus	Herb
<i>Paronychia canadensis</i>	Forked chickweed	Herb
<i>Paronychia fastigiata</i>	Whitlow-wort	Herb
<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Vine
<i>Parthenocissus vitacea</i>	Thicket creeper	Vine
<i>Paspalum laeve</i>	Field paspalum	Graminoid
<i>Patis racemosa</i>	Blackseed ricegrass	Graminoid
<i>Pedicularis canadensis</i>	Canadian lousewort	Herb
<i>Pellaea atropurpurea</i>	Purple cliffbrake	Herb
<i>Peltandra virginica</i>	Arrow-arum	Herb
<i>Penstemon hirsutus</i>	Hairy beardtongue	Herb
<i>Penthorum sedoides</i>	Ditch stonecrop	Herb
<i>Phalaris arundinacea</i>	Reed canary-grass	Graminoid
<i>Phegopteris hexagonoptera</i>	Broad beech fern	Herb
<i>Phlox subulata</i>	Moss-pink	Herb
<i>Phoradendron leucarpum</i>	Christmas mistletoe	Shrub
<i>Phragmites australis</i> subsp. <i>americanus</i>	Common reed - native	Graminoid
<i>Phryma leptostachya</i>	Lopseed	Herb
<i>Physalis heterophylla</i>	Clammy groundcherry	Herb
<i>Physalis longifolia</i> var. <i>subglabrata</i>	Longleaf groundcherry	Herb
<i>Physalis virginiana</i>	Virginia groundcherry	Herb
<i>Physocarpus opulifolius</i>	Ninebark	Shrub
<i>Phytolacca americana</i>	Pokeweed	Herb
<i>Picea mariana</i>	Black spruce	Tree
<i>Pilea fontana</i>	Lesser clearweed	Herb

Scientific Name	Common Name	Growth Habit
<i>Pilea pumila</i>	Clearweed	Herb
<i>Pinus echinata</i>	Short-leaf pine	Tree
<i>Pinus rigida</i>	Pitch pine	Tree
<i>Pinus rigida x taeda</i>	Hybrid pine (Pitlolly pine)	Tree
<i>Pinus strobus</i>	Eastern white pine	Tree
<i>Pinus virginiana</i>	Virginia pine	Tree
<i>Piptochaetium avenaceum</i>	Blackseed speargrass	Graminoid
<i>Plantago rugelii</i>	Rugel's plantain	Herb
<i>Plantago virginica</i>	Dwarf plantain	Herb
<i>Platanthera blephariglottis</i>	White fringed-orchid	Herb
<i>Platanthera clavellata</i>	Clubspur orchid	Herb
<i>Platanthera lacera</i>	Ragged fringed-orchid	Herb
<i>Platanus occidentalis</i>	Sycamore	Tree
<i>Pluchea odorata</i>	Marsh fleabane	Herb
<i>Poa alsodes</i>	Grove bluegrass	Graminoid
<i>Poa cuspidata</i>	Early bluegrass	Graminoid
<i>Poa palustris</i>	Fowl bluegrass	Graminoid
<i>Podophyllum peltatum</i>	Mayapple	Herb
<i>Pogonia ophioglossoides</i>	Rose pogonia	Herb
<i>Polygala brevifolia</i>	Short-leaved milkwort	Herb
<i>Polygala cruciata</i>	Cross-leaved milkwort	Herb
<i>Polygala lutea</i>	Orange milkwort	Herb
<i>Polygala nuttallii</i>	Nuttall's milkwort	Herb
<i>Polygala paucifolia</i>	Gaywings	Herb
<i>Polygala sanguinea</i>	Field milkwort	Herb
<i>Polygala verticillata</i>	Whorled milkwort	Herb
<i>Polygonatum biflorum var. biflorum</i>	Solomon's-seal	Herb
<i>Polygonatum biflorum var. commutatum</i>	Solomon's-seal	Herb
<i>Polygonatum pubescens</i>	Solomon's-seal	Herb
<i>Polygonella articulata</i>	Jointweed	Herb
<i>Polygonum amphibium var. emersum</i>	Water smartweed	Herb
<i>Polygonum amphibium var. stipulaceum</i>	Water smartweed	Herb
<i>Polygonum arifolium</i>	Halberd-leaf tearthumb	Vine
<i>Polygonum careyi</i>	Carey's knotweed	Herb
<i>Polygonum hydropiperoides</i>	Mild water-pepper	Herb
<i>Polygonum pennsylvanicum</i>	Pennsylvania smartweed	Herb
<i>Polygonum punctatum</i>	Dotted smartweed	Herb
<i>Polygonum ramosissimum var. prolificum</i>	Bushy knotweed	Herb
<i>Polygonum ramosissimum var. ramosissimum</i>	Bushy knotweed	Herb
<i>Polygonum robustius</i>	Large water-smartweed	Herb
<i>Polygonum sagittatum</i>	Arrow-leaved tearthumb	Vine

Scientific Name	Common Name	Growth Habit
<i>Polygonum scandens</i>	Climbing false buckwheat	Vine
<i>Polygonum tenue</i>	Slender knotweed	Herb
<i>Polygonum virginianum</i>	Jumpseed	Herb
<i>Polypodium appalachianum</i>	Appalachian polypody	Herb
<i>Polypodium virginianum</i>	Common polypody	Herb
<i>Polystichum acrostichoides</i>	Christmas fern	Herb
<i>Pontederia cordata</i>	Pickereel-weed	Herb
<i>Populus deltoides</i>	Eastern cottonwood	Tree
<i>Populus grandidentata</i>	Bigtooth aspen	Tree
<i>Populus tremuloides</i>	Quaking aspen	Tree
<i>Potamogeton alpinus</i>	Northern pondweed	Herb
<i>Potamogeton amplifolius</i>	Large-leaved pondweed	Herb
<i>Potamogeton bicupulatus</i>	Pondweed	Herb
<i>Potamogeton diversifolius</i>	Snailseed pondweed	Herb
<i>Potamogeton epihydrus</i>	Ribbonleaf pondweed	Herb
<i>Potamogeton foliosus</i>	Leafy pondweed	Herb
<i>Potamogeton gramineus</i>	Grass-like pondweed	Herb
<i>Potamogeton natans</i>	Floating pondweed	Herb
<i>Potamogeton nodosus</i>	Longleaf pondweed	Herb
<i>Potamogeton perfoliatus</i>	Perfoliate pondweed	Herb
<i>Potamogeton pulcher</i>	Spotted pondweed	Herb
<i>Potamogeton pusillus</i>	Pondweed	Herb
<i>Potamogeton spirillus</i>	Spiral pondweed	Herb
<i>Potentilla canadensis</i>	Dwarf cinquefoil	Herb
<i>Potentilla norvegica</i>	Norwegian cinquefoil	Herb
<i>Potentilla simplex</i>	Common cinquefoil	Herb
<i>Prenanthes alba</i>	White rattlesnake-root	Herb
<i>Prenanthes altissima</i>	Tall rattlesnake-root	Herb
<i>Prenanthes serpentaria</i>	Lion's-foot	Herb
<i>Prenanthes trifoliolata</i>	Gall-of-the-earth	Herb
<i>Proserpinaca palustris</i>	Common mermaid-weed	Herb
<i>Proserpinaca pectinata</i>	Cut-leaved mermaid-weed	Herb
<i>Prunella vulgaris subsp. lanceolata</i>	Lance selfheal	Herb
<i>Prunus americana</i>	Wild plum	Tree
<i>Prunus maritima</i>	Beach plum	Shrub
<i>Prunus pensylvanica</i>	Pin cherry	Tree
<i>Prunus serotina</i>	Wild black cherry	Tree
<i>Prunus virginiana</i>	Choke cherry	Tree
<i>Pseudognaphalium obtusifolium subsp. obtusifolium</i>	Rabbit-tobacco	Herb
<i>Pseudognaphalium obtusifolium subsp. praecox</i>	Rabbit-tobacco	Herb
<i>Pteridium aquilinum</i>	Bracken fern	Herb

Scientific Name	Common Name	Growth Habit
<i>Ptilimnium capillaceum</i>	Mock Bishop's-weed	Herb
<i>Pycnanthemum incanum</i>	Mountain-mint	Herb
<i>Pycnanthemum muticum</i>	Mountain-mint	Herb
<i>Pycnanthemum tenuifolium</i>	Mountain-mint	Herb
<i>Pycnanthemum verticillatum</i>	Whorled mountain-mint	Herb
<i>Pycnanthemum virginianum</i>	Mountain-mint	Herb
<i>Pyrola americana</i>	American wintergreen	Herb
<i>Pyrola elliptica</i>	Shinleaf	Herb
<i>Pyxidantha barbulata</i>	Pyxie moss	Subshrub
<i>Quercus alba</i>	White oak	Tree
<i>Quercus bicolor</i>	Swamp white oak	Tree
<i>Quercus coccinea</i>	Scarlet oak	Tree
<i>Quercus falcata</i>	Southern red oak	Tree
<i>Quercus ilicifolia</i>	Scrub oak	Tree
<i>Quercus marilandica</i>	Blackjack oak	Tree
<i>Quercus montana</i>	Chestnut oak	Tree
<i>Quercus muehlenbergii</i>	Yellow oak	Tree
<i>Quercus palustris</i>	Pin oak	Tree
<i>Quercus phellos</i>	Willow oak	Tree
<i>Quercus prinoides</i>	Dwarf chestnut oak	Shrub
<i>Quercus rubra</i>	Northern red oak	Tree
<i>Quercus stellata</i>	Post oak	Tree
<i>Quercus velutina</i>	Black oak	Tree
<i>Ranunculus abortivus</i>	Kidney-leaf buttercup	Herb
<i>Ranunculus hispidus</i> var. <i>caricetorum</i>	Bristly buttercup	Herb
<i>Ranunculus hispidus</i> var. <i>hispidus</i>	Bristly buttercup	Herb
<i>Ranunculus hispidus</i> var. <i>nitidus</i>	Bristly buttercup	Herb
<i>Ranunculus recurvatus</i>	Blisterwort	Herb
<i>Ranunculus sceleratus</i>	Cursed buttercup	Herb
<i>Rhamnus alnifolia</i>	Alder-leaved buckthorn	Shrub
<i>Rhexia mariana</i> var. <i>mariana</i>	Maryland meadowbeauty	Herb
<i>Rhexia virginica</i>	Meadow-beauty	Herb
<i>Rhexia x brevibracteata</i>	Meadow beauty	Herb
<i>Rhododendron maximum</i>	Rosebay	Shrub
<i>Rhododendron periclymenoides</i>	Pinxter-flower	Shrub
<i>Rhododendron viscosum</i>	Swamp azalea	Shrub
<i>Rhus copallinum</i>	Shining sumac	Shrub
<i>Rhus glabra</i>	Smooth sumac	Tree
<i>Rhus typhina</i>	Staghorn sumac	Tree
<i>Rhynchospora alba</i>	White beak-rush	Graminoid
<i>Rhynchospora capitellata</i>	Brownish beaked-rush	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Rhynchospora chalarocephala</i>	Loose-headed beaked-rush	Graminoid
<i>Rhynchospora fusca</i>	Brown beaked-rush	Graminoid
<i>Rhynchospora gracilentia</i>	Slender beaked-rush	Graminoid
<i>Rhynchospora macrostachya</i>	Large-spiked Horned -rush	Graminoid
<i>Rhynchospora torreyana</i>	Torrey's beaked rush	Graminoid
<i>Ribes americanum</i>	Wild black currant	Shrub
<i>Ribes hirtellum</i>	Northern wild gooseberry	Shrub
<i>Ribes rotundifolium</i>	Wild gooseberry	Shrub
<i>Rorippa palustris subsp. fernaldiana</i>	Fernald's yellowcress	Herb
<i>Rorippa palustris subsp. hispida</i>	Hispid yellowcress	Herb
<i>Rosa carolina</i>	Pasture rose	Shrub
<i>Rosa nitida</i>	Shining Rose	Shrub
<i>Rosa palustris</i>	Swamp rose	Shrub
<i>Rosa virginiana</i>	Virginia rose	Shrub
<i>Rubus allegheniensis</i>	Allegheny blackberry	Shrub
<i>Rubus alumnus</i>	Old field blackberry	Shrub
<i>Rubus andrewsianus</i>	Andrew's blackberry	Shrub
<i>Rubus argutus</i>	Sawtooth blackberry	Shrub
<i>Rubus baileyanus</i>	Bailey's dewberry	Shrub
<i>Rubus bellobatus</i>	Kittatinny blackberry	Shrub
<i>Rubus cuneifolius</i>	Sand blackberry	Shrub
<i>Rubus depavitus</i>	Aberdeen blackberry	Shrub
<i>Rubus elegantulus</i>	Showy blackberry	Shrub
<i>Rubus flagellaris</i>	Northern dewberry	Vine
<i>Rubus floricomus</i>	Many-flowered blackberry	Shrub
<i>Rubus frondosus</i>	Yankee blackberry	Shrub
<i>Rubus hispidus</i>	Bristly dewberry	Vine
<i>Rubus hypolasius</i>	Pineland dewberry	Shrub
<i>Rubus idaeus subsp. strigosus</i>	Red raspberry	Shrub
<i>Rubus laudatus</i>	Plains blackberry	Shrub
<i>Rubus leviculus</i>	Bottomland dewberry	Shrub
<i>Rubus michiganensis</i>	Michigan dewberry	Shrub
<i>Rubus occidentalis</i>	Black-cap raspberry	Shrub
<i>Rubus odoratus</i>	Purple-flowering raspberry	Shrub
<i>Rubus parcifrondifer</i>	Silver creek blackberry	Shrub
<i>Rubus pensilvanicus</i>	Pennsylvania blackberry	Shrub
<i>Rubus pergratus</i>	Upland blackberry	Shrub
<i>Rubus philadelphicus</i>	Philadelphia blackberry	Vine
<i>Rubus plicatifolius</i>	Plaitleaf dewberry	Subshrub
<i>Rubus pubescens</i>	Dwarf blackberry	Herb
<i>Rubus recurvans</i>	Recurved blackberry	Shrub

Scientific Name	Common Name	Growth Habit
<i>Rubus roribaccus</i>	Lucretia blackberry	Shrub
<i>Rubus semisetosus</i>	Swamp blackberry	Shrub
<i>Rudbeckia laciniata</i>	Cutleaf coneflower	Herb
<i>Rudbeckia triloba</i>	Three-lobed coneflower	Herb
<i>Rumex orbiculatus</i>	Great water dock	Herb
<i>Rumex verticillatus</i>	Water dock	Herb
<i>Ruppia maritima</i>	Ditch-grass	Herb
<i>Sabatia angularis</i>	Common marsh-pink	Herb
<i>Sabatia difformis</i>	Lance-leaved sabatia	Herb
<i>Sabatia stellaris</i>	Sea pink	Herb
<i>Saccharum giganteum</i>	Giant plume-grass	Graminoid
<i>Sagina decumbens</i>	Trailing pearlwort	Herb
<i>Sagittaria engelmanniana</i>	Engelmann's arrowhead	Herb
<i>Sagittaria graminea</i>	Grass-leaved sagittaria	Herb
<i>Sagittaria latifolia</i>	Wapato	Herb
<i>Sagittaria rigida</i>	Sessile-fruited arrowhead	Herb
<i>Salicornia bigelovii</i>	Dwarf glasswort	Herb
<i>Salicornia depressa</i>	Virginia glasswort	Herb
<i>Salix bebbiana</i>	Bebb willow	Shrub
<i>Salix discolor</i>	Pussy willow	Shrub
<i>Salix eriocephala</i>	Diamond willow	Shrub
<i>Salix exigua</i>	Sandbar willow	Shrub
<i>Salix humilis var. humilis</i>	Prairie willow	Shrub
<i>Salix humilis var. tristis</i>	Prairie willow	Shrub
<i>Salix nigra</i>	Black willow	Tree
<i>Salix petiolaris</i>	Slender willow	Tree
<i>Salix sericea</i>	Silky willow	Shrub
<i>Salvia lyrata</i>	Lyre-leaved sage	Herb
<i>Sambucus nigra subsp. canadensis</i>	American black elderberry	Shrub
<i>Sambucus racemosa var. racemosa</i>	Red elderberry	Shrub
<i>Samolus valerandi subsp. parviflorus</i>	Water pimpernel	Herb
<i>Sanguinaria canadensis</i>	Bloodroot	Herb
<i>Sanguisorba canadensis</i>	Canadian burnet	Herb
<i>Sanicula canadensis</i>	Canadian sanicle	Herb
<i>Sanicula marilandica</i>	Maryland sanicle	Herb
<i>Sanicula odorata</i>	Clustered blacksnakeroot	Herb
<i>Sarcocornia perennis</i>	Chickenclaws	Herb
<i>Sarracenia purpurea</i>	Pitcher-plant	Herb
<i>Sassafras albidum</i>	Sassafras	tree
<i>Saururus cernuus</i>	Lizard's-tail	Herb
<i>Saxifraga pensylvanica</i>	Swamp saxifrage	Herb

Scientific Name	Common Name	Growth Habit
<i>Saxifraga virginiensis</i>	Early saxifrage	Herb
<i>Schizachyrium scoparium</i>	Little bluestem	Graminoid
<i>Schoenoplectiella purshiana</i>	Weakstalk bulrush	Graminoid
<i>Schoenoplectus americanus</i>	Olney's threesquare	Graminoid
<i>Schoenoplectus fluviatilis</i>	River bulrush	Graminoid
<i>Schoenoplectus pungens</i>	Common threesquare	Graminoid
<i>Schoenoplectus robustus</i>	salt-marsh bulrush	Graminoid
<i>Schoenoplectus subterminalis</i>	Water bulrush	Graminoid
<i>Schoenoplectus tabernaemontani</i>	Great bulrush; softstem bulrush	Graminoid
<i>Scirpus atrovirens</i>	Black bulrush	Graminoid
<i>Scirpus cyperinus</i>	Wool-grass	Graminoid
<i>Scirpus expansus</i>	Wood bulrush	Graminoid
<i>Scirpus georgianus</i>	Bulrush	Graminoid
<i>Scirpus hattorianus</i>	Mosquito bulrush	Graminoid
<i>Scirpus polyphyllus</i>	Leafy bulrush	Graminoid
<i>Scleria minor</i>	Slender nut-rush	Graminoid
<i>Scleria muehlenbergii</i>	Reticulated nut-rush	Graminoid
<i>Scleria reticularis</i>	Reticulated nut-rush	Graminoid
<i>Scleria triglomerata</i>	Whip nut-rush	Graminoid
<i>Scrophularia lanceolata</i>	Lanceleaf figwort	Herb
<i>Scrophularia marilandica</i>	Carpenter's square	Herb
<i>Scutellaria elliptica</i>	Hairy skullcap	Herb
<i>Scutellaria galericulata</i>	Common skullcap	Herb
<i>Scutellaria integrifolia</i>	Hyssop skullcup	Herb
<i>Scutellaria lateriflora</i>	Mad-dog skullcap	Herb
<i>Scutellaria parvula var. parvula</i>	Small skullcap	Herb
<i>Sedum ternatum</i>	Wild stonecrop	Herb
<i>Selaginella apoda</i>	Meadow spikemoss	Herb
<i>Senna hebecarpa</i>	Northern wild senna	Herb
<i>Sericocarpus asteroides</i>	White-topped aster	Herb
<i>Sericocarpus linifolius</i>	Narrow-leaved white-topped aster	Herb
<i>Setaria parviflora</i>	Marsh bristlegrass	Graminoid
<i>Sicyos angulatus</i>	Bur cucumber	Vine
<i>Silene antirrhina</i>	Sleepy Catchfly	Herb
<i>Silene stellata</i>	Starry campion	Herb
<i>Sisyrinchium angustifolium</i>	Blue-eyed-grass	Herb
<i>Sisyrinchium atlanticum</i>	Eastern blue-eyed-grass	Herb
<i>Sisyrinchium mucronatum</i>	Michaux's blue-eyed Grass	Herb
<i>Sium suave</i>	Water-parsnip	Herb
<i>Smilax glauca</i>	Glaucous greenbrier	Vine

Scientific Name	Common Name	Growth Habit
<i>Smilax herbacea</i>	Carrion-flower	Vine
<i>Smilax rotundifolia</i>	Roundleaf greenbrier	Vine
<i>Smilax walteri</i>	Red-berried greenbrier	Vine
<i>Solidago altissima</i>	Canada goldenrod	Herb
<i>Solidago bicolor</i>	Silver-rod	Herb
<i>Solidago caesia</i>	Bluestem goldenrod	Herb
<i>Solidago canadensis</i>	Canada goldenrod	Herb
<i>Solidago erecta</i>	Slender goldenrod	Herb
<i>Solidago fistulosa</i>	Pine barren goldenrod	Herb
<i>Solidago flexicaulis</i>	Zigzag goldenrod	Herb
<i>Solidago gigantea</i>	Giant goldenrod	Herb
<i>Solidago juncea</i>	Early goldenrod	Herb
<i>Solidago nemoralis</i>	Gray goldenrod	Herb
<i>Solidago odora</i>	Sweet goldenrod	Herb
<i>Solidago patula</i>	Spreading goldenrod	Herb
<i>Solidago puberula</i>	Downy goldenrod	Herb
<i>Solidago rugosa subsp. aspera</i>	Wrinkle-leaf goldenrod	Herb
<i>Solidago rugosa subsp. rugosa</i>	Wrinkle-leaf goldenrod	Herb
<i>Solidago sempervirens</i>	Seaside goldenrod	Herb
<i>Solidago ulmifolia</i>	Elm-leaved goldenrod	Herb
<i>Sorghastrum nutans</i>	Indian-grass	Graminoid
<i>Sparganium americanum</i>	American bur-reed	Herb
<i>Sparganium androcladum</i>	Branching bur-reed	Herb
<i>Sparganium eurycarpum</i>	Giant bur-reed	Herb
<i>Spartina alterniflora</i>	Smooth cordgrass	Graminoid
<i>Spartina cynosuroides</i>	Big cordgrass	Graminoid
<i>Spartina patens</i>	Salt marsh cordgrass	Graminoid
<i>Spartina pectinata</i>	Prairie cordgrass	Graminoid
<i>Sphenopholis intermedia</i>	Slender wedgescale	Graminoid
<i>Sphenopholis nitida</i>	Shiny wedgescale	Graminoid
<i>Sphenopholis obtusata</i>	Prairie wedgescale	Graminoid
<i>Sphenopholis x pallens</i>	Tall wedgescale	Graminoid
<i>Spiraea latifolia</i>	Meadowsweet	Shrub
<i>Spiraea tomentosa</i>	Steeplebush	Shrub
<i>Spiranthes cernua</i>	Nodding ladies'-tresses	Herb
<i>Spiranthes lacera var. gracilis</i>	Southern slender ladies'-tresses	Herb
<i>Spiranthes lacera var. lacera</i>	Northern slender ladies'-tresses	Herb
<i>Spiranthes vernalis</i>	Spring ladies'-tresses	Herb
<i>Spirodela polyrrhiza</i>	Greater duckweed	Herb
<i>Sporobolus vaginiflorus</i>	Poverty grass sheathed dropseed	Graminoid

Scientific Name	Common Name	Growth Habit
<i>Staphylea trifolia</i>	Bladdernut	Shrub
<i>Stellaria alsine</i>	Bog chickweed	Herb
<i>Stellaria longifolia</i>	Long-leaved stitchwort	Herb
<i>Strophostyles helvola</i>	Wild bean	Vine
<i>Strophostyles umbellata</i>	Wild bean	Vine
<i>Stuckenia pectinata</i>	Sago pondweed	Herb
<i>Suaeda linearis</i>	Tall sea-blite	Herb
<i>Symphotrichum cordifolium</i>	Common blue wood aster	Herb
<i>Symphotrichum dumosum</i> var. <i>dumosum</i>	Rice button aster	Herb
<i>Symphotrichum laeve</i> var. <i>laeve</i>	Smooth blue aster	Herb
<i>Symphotrichum lanceolatum</i> subsp. <i>lanceolatum</i> var. <i>lanceolatum</i>	White paniced aster	Herb
<i>Symphotrichum lateriflorum</i> var. <i>lateriflorum</i>	Calico aster	Herb
<i>Symphotrichum lowrieanum</i>	Smooth heart-leaved aster	Herb
<i>Symphotrichum novae-angliae</i>	New England aster	Herb
<i>Symphotrichum novi-belgii</i> var. <i>novi-belgii</i>	New York aster	Herb
<i>Symphotrichum patens</i> var. <i>patens</i>	Late purple aster	Herb
<i>Symphotrichum phlogifolium</i>	Thinleaf late purple aster	Herb
<i>Symphotrichum pilosum</i> var. <i>pilosum</i>	Heath aster	Herb
<i>Symphotrichum puniceum</i> var. <i>puniceum</i>	Purple-stemmed aster	Herb
<i>Symphotrichum racemosum</i>	Small white aster	Herb
<i>Symphotrichum subulatum</i>	Annual salt marsh aster	Herb
<i>Symphotrichum tenuifolium</i>	Perennial salt marsh aster	Herb
<i>Symphotrichum undulatum</i>	Wavyleaf aster	Herb
<i>Symphotrichum x amethystinum</i>	Amethyst aster	Herb
<i>Symplocarpus foetidus</i>	Skunk cabbage	Herb
<i>Tephrosia virginiana</i>	Goat's-rue	Herb
<i>Teucrium canadense</i> var. <i>canadense</i>	Canada germander	Herb
<i>Thalictrum dioicum</i>	Early meadow-rue	Herb
<i>Thalictrum pubescens</i>	Tall meadow-rue	Herb
<i>Thalictrum revolutum</i>	Waxy leaf meadow-rue	Herb
<i>Thalictrum thalictroides</i>	Rue anemone	Herb
<i>Thelypteris noveboracensis</i>	New York fern	Herb
<i>Thelypteris palustris</i> var. <i>pubescens</i>	Eastern marsh fern	Herb
<i>Thelypteris simulata</i>	Bog fern	Herb
<i>Tilia americana</i> var. <i>americana</i>	American basswood	Tree
<i>Tilia americana</i> var. <i>heterophylla</i>	American basswood	Tree
<i>Tipularia discolor</i>	Cranefly orchid	Herb
<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale false mannagrass	Graminoid
<i>Toxicodendron radicans</i>	Poison ivy	Vine
<i>Toxicodendron vernix</i>	Poison sumac	Shrub

Scientific Name	Common Name	Growth Habit
<i>Tradescantia virginiana</i>	Spiderwort	Herb
<i>Triadenum virginicum</i>	Marsh St. John's-wort	Herb
<i>Trichophorum planifolium</i>	Bashful bulrush	Graminoid
<i>Trichostema dichotomum</i>	Blue-curls	Herb
<i>Tridens flavus var. flavus</i>	Purpletop tridens	Graminoid
<i>Trientalis borealis</i>	Star-flower	Herb
<i>Trillium cernuum</i>	Nodding trillium	Herb
<i>Trillium erectum</i>	Purple trillium	Herb
<i>Triodanis perfoliata</i>	Venus's looking-glass	Herb
<i>Triosteum aurantiacum</i>	Orangefruit horse gentian	Herb
<i>Triosteum perfoliatum</i>	Feverwort	Herb
<i>Triplasis purpurea</i>	Sand grass	Graminoid
<i>Tripsacum dactyloides</i>	Eastern gamagrass	Graminoid
<i>Tsuga canadensis</i>	Eastern hemlock	Tree
<i>Typha angustifolia</i>	Narrowleaf cattail	Herb
<i>Typha latifolia</i>	Broadleaf cattail	Herb
<i>Typha x glauca</i>	Hybrid cattail	Herb
<i>Ulmus americana</i>	American elm	Tree
<i>Ulmus rubra</i>	Slippery Elm	Tree
<i>Urtica dioica subsp. gracilis</i>	Great nettle	Herb
<i>Utricularia cornuta</i>	Horned Bladderwort	Herb
<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	Herb
<i>Utricularia juncea</i>	Rush Bladderwort	Herb
<i>Utricularia macrorhiza</i>	Common bladderwort	Herb
<i>Utricularia striata</i>	Striped bladderwort	Herb
<i>Utricularia subulata</i>	Slender bladderwort	Herb
<i>Uvularia perfoliata</i>	Bellwort	Herb
<i>Uvularia sessilifolia</i>	Bellwort	Herb
<i>Vaccinium angustifolium</i>	Low sweet blueberry	Shrub
<i>Vaccinium caesariense</i>	New Jersey highbush blueberry	Shrub
<i>Vaccinium corymbosum</i>	Highbush blueberry	Shrub
<i>Vaccinium fuscatum</i>	Black highbush blueberry	Shrub
<i>Vaccinium macrocarpon</i>	Cranberry	Herb
<i>Vaccinium pallidum</i>	Lowbush blueberry	Shrub
<i>Vaccinium stamineum</i>	Deerberry	Shrub
<i>Vallisneria americana</i>	Tape-grass	Herb
<i>Veratrum hybridum</i>	Slender bunchflower	Herb
<i>Veratrum viride</i>	Green false hellebore	Herb
<i>Verbena hastata</i>	Blue vervain	Herb
<i>Verbena urticifolia</i>	White vervain	Herb
<i>Verbesina alternifolia</i>	Wingstem	Herb

Scientific Name	Common Name	Growth Habit
<i>Vernonia noveboracensis</i>	New York ironweed	Herb
<i>Veronica americana</i>	American brooklime	Herb
<i>Veronica anagallis-aquatica</i>	Water speedwell	Herb
<i>Veronica peregrina</i>	Neckweed	Herb
<i>Veronica scutellata</i>	Marsh speedwell	Herb
<i>Veronicastrum virginicum</i>	Culver's-root	Herb
<i>Viburnum acerifolium</i>	Maple-leaved viburnum	Shrub
<i>Viburnum dentatum</i> var. <i>dentatum</i>	Southern arrowwood	Shrub
<i>Viburnum lentago</i>	Nannyberry	Tree
<i>Viburnum nudum</i> var. <i>cassinoides</i>	Withe-rod	Shrub
<i>Viburnum nudum</i> var. <i>nudum</i>	Possumhaw	Shrub
<i>Viburnum prunifolium</i>	Black-haw	Tree
<i>Viburnum rafinesqueanum</i>	Downy arrow-wood	Shrub
<i>Viburnum recognitum</i>	Northern arrow-wood	Shrub
<i>Viola affinis</i>	Sand violet	Herb
<i>Viola bicolor</i>	Field pansy	Herb
<i>Viola blanda</i> var. <i>blanda</i>	Sweet white violet	Herb
<i>Viola cucullata</i>	Blue marsh violet	Herb
<i>Viola labradorica</i>	American dog violet	Herb
<i>Viola lanceolata</i>	Lance-leaved violet	Herb
<i>Viola macloskeyi</i>	Small white violet	Herb
<i>Viola pedata</i>	Birdfoot violet	Herb
<i>Viola pubescens</i> var. <i>pubescens</i>	Downy yellow violet	Herb
<i>Viola pubescens</i> var. <i>scabriuscula</i>	Downy yellow violet	Herb
<i>Viola rotundifolia</i>	Roundleaf yellow violet	Herb
<i>Viola sagittata</i> var. <i>ovata</i>	Ovate-leaved violet	Herb
<i>Viola sagittata</i> var. <i>sagittata</i>	Arrowleaf violet	Herb
<i>Viola sororia</i>	Common blue violet	Herb
<i>Viola striata</i>	Striped cream violet	Herb
<i>Viola x palmata</i>	Early blue violet	Herb
<i>Viola x primulifolia</i>	Primrose-leaved violet	Herb
<i>Vitis aestivalis</i>	Summer grape	Vine
<i>Vitis labrusca</i>	Fox grape	Vine
<i>Vitis riparia</i>	Riverbank grape	Vine
<i>Vitis vulpina</i>	Frost grape	Vine
<i>Vitis x novae-angliae</i>	New England grape	Vine
<i>Vulpia octoflora</i> var. <i>octoflora</i>	Six-weeks fescue	Graminoid
<i>Wolffia borealis</i>	Northern watermeal	Herb
<i>Wolffia brasiliensis</i>	Brazilian watermeal	Herb
<i>Wolffia columbiana</i>	Water-meal	Herb
<i>Woodsia ilvensis</i>	Rusty woodsia	Herb

Scientific Name	Common Name	Growth Habit
<i>Woodsia obtusa</i>	Blunt-lobed woodsia	Herb
<i>Woodwardia areolata</i>	Netted chain fern	Herb
<i>Woodwardia virginica</i>	Virginia chain fern	Herb
<i>Xanthium strumarium var. canadense</i>	Common cocklebur	Herb
<i>Xanthium strumarium var. glabratum</i>	Rough cocklebur	Herb
<i>Xanthium strumarium var. strumarium</i>	Rough cocklebur	Herb
<i>Xerophyllum asphodeloides</i>	Turkey-beard	Herb
<i>Xyris difformis</i>	Bog yellow-eyed grass	Herb
<i>Xyris smalliana</i>	Small's yellow-eyed grass	Herb
<i>Xyris torta</i>	Twisted yellow-eyed grass	Herb
<i>Zannichellia palustris</i>	Horned pondweed	Herb
<i>Zanthoxylum americanum</i>	Prickly-ash	Tree
<i>Zizania aquatica</i>	Wild-rice	Graminoid
<i>Zizia aptera</i>	Heart-leaved golden-alexander	Herb
<i>Zizia aurea</i>	Golden-alexander	Herb
<i>Zostera marina</i>	Eel-grass	Herb