

Species Lists for Plant Communities at Swede Hollow

The following species lists, suitable for use in restoring each of the plant community types at Swede Hollow, were compiled by Friends of the Mississippi River (FMR) in July 2011, and correspond with the *Swede Hollow Target Plant Communities Map*. A *target plant community* means a floristic community that is the goal or target for a given site in the park, based on geology, hydrology, exposure, soils, slope, aspect, historic vegetation, disturbance history, and existing vegetation. The lists for plant communities are based on the *Species Lists for Terrestrial and Palustrine Native Plant Communities in East-central Minnesota* (Dunevitz and Lane 2004), which were developed from plant surveys. For example, the target plant community of the low, saturated, water-flowage area that extends through the heart of the park from the north pond to the south pond, was designated as *Southern Seepage Meadow Carr* (formerly called “Sedge Meadow”), with the Native Plant Community (NPS) code *WMs83*.

Each list contains the following information: Scientific name, common name, rating for “likelihood of establishment”, *coefficient of conservatism* (or “conservatism coefficient”), and whether the species is “commercially commonly available”. “Likelihood of establishment” and “commercially commonly available” rankings were assigned by the ecologists at FMR based on their experience and education. The coefficients of conservatism, or “C-values”, were obtained from the Wisconsin Herbarium website (<http://www.botany.wisc.edu/herbarium/>) and the *Floristic Quality Assessment for Minnesota Wetlands* (Milburn, et. al., 2007).

Likelihood of Establishment rankings are divided into three categories: low, medium, and high, where low is a difficult to establish species, high is an easy to establish species, and medium is intermediate between the two. Establishment is based on seeding, which is the best technique for larger areas. Using transplants, however, would also be an acceptable restoration technique (especially for smaller areas and for supplementing/enhancing larger areas with certain species that are not present in these areas, and also for woody species). Most plant species propagate via both sexual (seeds, spores) and asexual (vegetative) methods, and both seeding and transplanting are valid techniques for establishment. Each has advantages and disadvantages. Establishment can vary with many factors, including 1) the quality of seed and/or transplant stock, 2) the amount of site preparation performed prior to seeding/planting, 3) the timing and season of sowing/planting, 4) weather conditions following seeding/planting, 5) competition from weeds, 6) and the level of maintenance provided during the first couple years following seeding/planting. Some plant groups, like ferns and fern allies, are difficult to propagate sexually, and require the use of transplants, which can be expensive. Friends of the Mississippi River strongly recommend using local ecotype seed/plant sources whenever possible. Local ecotype species are best adapted to the local climatic conditions and most likely to survive in this area. Retaining the genetic diversity of the region is also important for the long-term health and survival of ecosystems in general.

C-values range from 0 to 10, with increasing conservatism as the numbers increase. The following describes the ranking system:

0 indicates plants with a wide range of ecological tolerances, and are often opportunistic invaders of natural communities or native species typical of disturbed or ruderal communities (we did not include species of this category);

1-2 indicates widespread taxa that are not typical of a particular community;

3-5 indicates plants with an intermediate range of ecological tolerances that typify a stable phase of some native communities, but persist under some disturbance;

6-8 indicates plants with a moderately narrow range of ecological tolerances that typify stable or late successional native plant communities;

9-10 indicates plants with a narrow range of ecological tolerances that exhibit very high fidelity to a narrow range of stable habitat requirements. (Milburn, et. al., 2007, adapted from Andreas et. al., 2004).

Commonly Commercially Available data is a column that is simply checked or not checked, based on our best estimation from our experience (we should probably provide a list of nursery sources). While many of the species listed are not commercially available, it is possible they could be obtained by harvesting from another site.

Not every native species that belong in these native plant communities is listed, as some of them were deleted for various reasons. For example, boxelder, poison ivy, stinging nettle are commonly found in many of these native communities, yet they were not included on the lists because they are already very abundant on the site, and are generally undesirable plants to humans.

For the sake of comprehensiveness and diversity in each given plant community, many species were included that may be relatively scarce or highly conservative, even though they are not likely to be planted in the community any time soon. For instance, prairie dropseed and prairie onion were both included in the Mesic Savanna list, even though they have conservation coefficients that are 10 and 9 respectively. Some species that are difficult to establish were also included. Ragged-fringed orchid (*Plantathera lacera*) and small purple fringed orchid (*Plantathera psycodes*), for example, are extremely difficult to get established, but would be handsome additions to a stable wet prairie community some day in the future. Similarly, wood betony, (*Pedicularis canadensis*) is a hemi-parasitic plant and is hard to get established, but has benefits to a mature savanna community. Incorporating these species (those with a C-value of 6 and greater) is something that should best be done as the community matures, since often these are late successional species. Trying to get them established into an early successional situation with much unnatural disturbance and in prevailing conditions that do not match their narrow range of habitat requirements will most likely be a failure, resulting in a waste of time, money, and effort.

The community labeled *Mixed Hardwoods* is not a recognized native plant community type. The designation was given to the most highly disturbed areas, with very steep slopes, thin soils, much rubble, and overabundance of exotic invasive forb species. It is unlikely that these areas could be restored to an actual community type anytime in the

near future, but could be planted with very durable, hardy native species, to provide some wildlife habitat, diversity and soil stability.

The list for the *Inland Freshwater Pond* community is not a designated native plant community either, per se, but is a combination of several related ones including *Inland Lake Clay/Mud Shore* (LKi54), *Northern Bulrush-Spikerush Marsh* (MRn93), and *Southern Seepage Meadow Carr* (WMs83), with submergent plants in the deeper portions of the littoral zone, emergent plants in the shallower portions of the littoral zone, and transitional hydric/aquatic species in the saturated soil zones that surround the open water. We feel that this approach is most appropriate for both the man-made pond to the north and the natural one to the south of the site.

We did not include a species list for the *Park* Community, since management of these areas is already underway and the species that occur here consist of non-native communities, namely the following: 1) large canopy trees with shrubs and turf-grass in the north park, and 2) raingardens with upland prairie/wet prairie and patches of exotic herbaceous and graminoid species on south-facing slopes in the south park.

It is important to understand that the mapped plant communities are not precise boundaries. Any of the boundaries could fluctuate depending on very specific local conditions. The wetland areas, in particular, should not be considered to be firm boundaries. The existing wetlands were not delineated, and that should be done prior to proceeding with any restoration activities.

It should also be noted that this map and species list were not intended to be a directive on how to achieve the target communities. In most cases, extensive site preparation is needed prior to initiating any planting project, and many years of maintenance and monitoring will be needed afterwards. Detailed project goals, and methodologies to achieve them, will need to be developed. These species lists are also not intended to advise on what species should be removed. For example, if a given tree species exists in a location where it is NOT included in the target community, it does not necessarily mean it should be removed. In general, we do recommend removal of all non-native species, but for some, such as garlic mustard, the exotics are simply too pervasive and removal efforts would be futile. (It may, however, be feasible to successfully establish natives among garlic mustard, as some studies have suggested).

Southern Dry-Mesic Oak Forest—MHs37 (9.7 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Canopy Trees (>10m)					
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Juglans</i>	<i>cinerea</i>	Butternut	L	6	x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	4	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>alba</i>	White oak	L	7	x
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Tilia</i>	<i>americana</i>	Basswood	H	5	x
<i>Ulmus*</i>	<i>americana</i>	American elm	H	3	x
Understory Trees					
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Carpinus</i>	<i>caroliniana</i>	Blue beech	M	5	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	5	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>alba</i>	White oak	L	7	x
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Tilia</i>	<i>americana</i>	Basswood	H	5	x
<i>Ulmus*</i>	<i>americana</i>	American elm	H	3	x
<i>Ulmus*</i>	<i>rubra</i>	Slippery elm	M	4	x
Shrubs					
<i>Cornus</i>	<i>alternifolia</i>	Pagoda dogwood	M	7	x
<i>Cornus</i>	<i>racemosa</i>	Gray dogwood	H	2	x
<i>Corylus</i>	<i>americana</i>	American hazelnut	H	3	x
<i>Corylus</i>	<i>cornuta</i>	Beaked hazelnut	H	5	x
<i>Prunus</i>	<i>virginiana</i>	Chokecherry	H	3	x
<i>Ribes</i>	<i>cynosbati</i>	Prickly gooseberry	H	3	x
<i>Ribes</i>	<i>missouriense</i>	Missouri gooseberry	H	4	x
<i>Rosa</i>	<i>blanda</i>	Smooth wild rose	M	7	x
<i>Sambucus</i>	<i>racemosa</i>	Red-berried elder	H	5	x
<i>Symphoricarpos</i>	<i>albus</i>	Snowberry	M	6	x
<i>Viburnum</i>	<i>lentago</i>	Nannyberry	M	4	x
<i>Viburnum</i>	<i>rafinesquianum</i>	Downy arrow-wood	M	7	x
Forbs					
<i>Actaea</i>	<i>rubra</i>	Red baneberry	M	7	x
<i>Amphicarpaea</i>	<i>bracteata</i>	Hog-peanut	M	4	x
<i>Apocynum</i>	<i>androsaemifolium</i>	Spreading dogbane	H	2	
<i>Aquilegia</i>	<i>canadensis</i>	Columbine	M	4	x
<i>Aralia</i>	<i>nudicaulis</i>	Wild sarsaparilla	M	4	x
<i>Aralia</i>	<i>racemosa</i>	American spikenard	L	7	x
<i>Arisaema</i>	<i>triphillum</i>	Jack-in-the-pulpit	M	4	x
<i>Aster</i>	<i>sagittifolius</i>	Tail-leaved aster	M	3	

<i>Caulophyllum</i>	<i>thalictroides</i>	Blue cohosh	L	8	x
<i>Circaea</i>	<i>lutetiana</i>	Canada enchanter's nightshade	H	2	x
<i>Cryptotaenia</i>	<i>canadensis</i>	Honewort	H	3	
<i>Desmodium</i>	<i>glutinosum</i>	Pointed-leaved tick-trefoil	M	6	
<i>Dioscorea</i>	<i>villosa</i>	Wild yam	M	4	
<i>Fragaria</i>	<i>vesca</i>	Wood strawberry	H		x
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	H	2	x
<i>Galium</i>	<i>aparine</i>	Cleavers	H	1	x
<i>Galium</i>	<i>concinnum</i>	Elegant bedstraw	M	5	
<i>Galium</i>	<i>triflorum</i>	Three-flowered bedstraw	M	4	
<i>Geranium</i>	<i>maculatum</i>	Wild geranium	M	4	x
<i>Geum</i>	<i>canadense</i>	White avens	H	2	
<i>Hepatica</i>	<i>americana</i>	Round-lobed hepatica	L	7	x
<i>Hydrophyllum</i>	<i>virginianum</i>	Virginia waterleaf	H	3	x
<i>Maianthemum</i>	<i>canadense</i>	Canada mayflower	M	5	x
<i>Maianthemum</i>	<i>racemosum</i>	Racemose false Solomon's-seal	M	5	x
<i>Mitella</i>	<i>diphylla</i>	Two-leaved miterwort	L	7	
<i>Monotropa</i>	<i>uniflora</i>	Indian pipe	L	6	
<i>Osmorhiza</i>	<i>claytonii</i>	Clayton's sweet cicely	H	3	x
<i>Osmorhiza</i>	<i>longistylis</i>	Anise-root	M	4	
<i>Polygonatum</i>	<i>pubescens</i>	Hairy Solomon's-seal	M	6	
<i>Polygonatum</i>	<i>biflorum</i>	Giant Solomon's-seal	M	4	
<i>Ranunculus</i>	<i>abortivus</i>	Kidney-leaf buttercup	H	1	
<i>Ranunculus</i>	<i>recurvatus</i>	Hooked crowfoot	M	5	
<i>Sanguinaria</i>	<i>canadensis</i>	Bloodroot	L	6	x
<i>Sanicula</i>	<i>gregaria</i>	Gregarious black snakeroot	H	3	
<i>Sanicula</i>	<i>marilandica</i>	Mariland black snakeroot	M	5	x
<i>Smilax</i>	<i>lasionuera</i>	Carrion-flower	M	4	
<i>Thalictrum</i>	<i>dioicum</i>	Early meadow-rue	M	5	x
<i>Uvularia</i>	<i>grandiflora</i>	Yellow bellwort	L	7	x
<i>Uvularia</i>	<i>sessilifolia</i>	Pale bellwort	M	6	x
<i>Veronicastrum</i>	<i>virginicum</i>	Culver's root	M	6	x
<i>Viola</i>	<i>species</i>	Violet (multiple species)	M	5	x
Grasses, Rushes and Sedges					
<i>Carex</i>	<i>blanda</i>	Charming sedge	M	3	
<i>Carex</i>	<i>pensylvanica</i>	Pennsylvania sedge	M	3	x
<i>Carex</i>	<i>radiata</i>	Stellate sedge	M	4	
<i>Festuca</i>	<i>subverticillata</i>	Nodding fescue	M	4	
Ferns and Fern Allies					
<i>Adiantum</i>	<i>pedatum</i>	Maidenhair fern	L	7	x
<i>Athyrium</i>	<i>filix-femina</i>	Lady-fern	M	4	x
<i>Botrychium</i>	<i>virginianum</i>	Rattlesnakefern	L	6	
<i>Osmunda</i>	<i>claytoniana</i>	Interrupted fern	M	6	x
<i>Pteridium</i>	<i>aquilinum</i>	Bracken	M	2	X
*Use disease resistant varieties					

Southern Mesic Oak-Basswood Forest—MHs38

(4.4 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Trees					
<i>Acer</i>	<i>saccharum</i>	Sugar maple	M	5	x
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Carpinus</i>	<i>caroliniana</i>	Blue beech	M	6	x
<i>Carya</i>	<i>cordiformis</i>	Bitternut hickory	M	6	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>nigra</i>	Black ash	L	8	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Juglans</i>	<i>cinerea</i>	Butternut	L	6	
<i>Juglans</i>	<i>nigra</i>	Black walnut	M	3	x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	5	x
<i>Populus</i>	<i>grandidentata</i>	Big-toothed aspen	M	3	x
<i>Populus</i>	<i>tremuloides</i>	Quaking aspen	H	2	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>alba</i>	White oak	L	7	x
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak	M	5	x
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Tilia</i>	<i>americana</i>	Basswood	H	5	x
<i>Ulmus</i>	<i>rubra</i>	Slippery elm	M	4	
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
Shrubs					
<i>Amelanchier</i>	<i>arborea</i>	Juneberry	M	6	x
<i>Cornus</i>	<i>alternifolia</i>	Pagoda dogwood	M	7	x
<i>Cornus</i>	<i>racemosa</i>	Gray dogwood	H	2	x
<i>Corylus</i>	<i>americana</i>	American hazelnut	H	3	x
<i>Corylus</i>	<i>cornuta</i>	Beaked hazelnut	M	5	x
<i>Diervilla</i>	<i>lonicera</i>	Bush honeysuckle	H	6	x
<i>Prunus</i>	<i>virginiana</i>	Chokecherry	H	3	x
<i>Ribes</i>	<i>cynosbati</i>	Prickly gooseberry	H	3	x
<i>Ribes</i>	<i>missouriense</i>	Missouri gooseberry	H	4	x
<i>Sambucus</i>	<i>canadensis</i>	Common elder	H	3	x
<i>Sambucus</i>	<i>racemosa</i>	Red-berried elder	H	5	x
<i>Staphylea</i>	<i>trifolia</i>	Bladdernut	M	7	x
<i>Symphoricarpos</i>	<i>alba</i>	Snowberry	M	6	x
<i>Viburnum</i>	<i>lentago</i>	Nannyberry	M	4	x
<i>Viburnum</i>	<i>rafinesquianum</i>	Downy arrow-wood	M	7	x
<i>Viburnum</i>	<i>opulus</i>	High-bush cranberry	M	5	x
Vines					
<i>Celastrus</i>	<i>scandens</i>	Climbing bittersweet	M	3	x
Grasses, Rushes and Sedges					
<i>Carex</i>	<i>blanda</i>	Charming sedge	M	3	
<i>Carex</i>	<i>deweyana</i>	Dewey's sedge	L	6	
<i>Carex</i>	<i>gracillima</i>	Graceful sedge	L	4	
<i>Carex</i>	<i>pedunculata</i>	Long-stalked sedge	L	7	
<i>Carex</i>	<i>pensylvanica</i>	Pennsylvania sedge	M	3	x
<i>Carex</i>	<i>sprengelii</i>	Sprengel's sedge	M	6	x
<i>Carex</i>	<i>radiata</i>	Stellate sedge	M	4	
<i>Carex</i>	<i>rosea</i>	Rolled-up sedge	L	4	
<i>Elymus</i>	<i>hystrix</i>	Bottlebrush grass	M	6	x

<i>Elymus</i>	<i>virginicus</i>	Virginia wild rye	H	6	x
<i>Festuca</i>	<i>subverticillata</i>	Nodding fescue	M	4	
<i>Leersia</i>	<i>virginica</i>	White grass	M	5	
<i>Oryzopsis</i>	<i>asperifolia</i>	Mountain rice-grass	M	6	
<i>Oryzopsis</i>	<i>racemosa</i>	Black-fruited rice-grass	L	8	
<i>Schizachne</i>	<i>purpurascens</i>	False melic grass	L	7	
Forbs					
<i>Actaea</i>	<i>rubra</i>	Red baneberry	L	7	x
<i>Allium</i>	<i>tricoccum</i>	Wild leek	L	6	x
<i>Amphicarpaea</i>	<i>bracteata</i>	Hog-peanut	M	4	x
<i>Anemone</i>	<i>quinquefolia</i>	Wood-anemone	M	6	x
<i>Anemone</i>	<i>americana</i>	Round-lobed hepatica	L	7	x
<i>Aplectrum</i>	<i>hyemale</i>	Putty-root	L	10	
<i>Apocynum</i>	<i>androsaemifolium</i>	Spreading dogbane	H	2	
<i>Aquilegia</i>	<i>canadensis</i>	Columbine	M	4	x
<i>Aralia</i>	<i>nudicaulis</i>	Wild sarsaparilla	M	4	x
<i>Aralia</i>	<i>racemosa</i>	American spikenard	L	7	x
<i>Arisaema</i>	<i>triphillum</i>	Jack-in-the-pulpit	M	4	x
<i>Asarum</i>	<i>canadense</i>	Wild ginger	M	7	x
<i>Asclepias</i>	<i>exaltata</i>	Poke milkweed	L	7	
<i>Aster</i>	<i>cordifolius</i>	Heart-leaved aster	M	6	x
<i>Aster</i>	<i>lateriflorus</i>	Side-flowering aster	M	3	
<i>Aster</i>	<i>macrophyllus</i>	Large-leaved aster	M	4	x
<i>Aster</i>	<i>sagittifolius</i>	Tail-leaved aster	M	3	
<i>Campanula</i>	<i>americana</i>	Tall bellflower	M	4	x
<i>Campanula</i>	<i>rotundifolia</i>	Harebell	L	5	x
<i>Cardamine</i>	<i>concatenata</i>	Cut-leaved toothwort	L	6	
<i>Caulophyllum</i>	<i>thalictroides</i>	Blue cohosh	L	8	x
<i>Circaea</i>	<i>lutetiana</i>	Canada enchanter's nightshade	H	2	x
<i>Cryptotaenia</i>	<i>canadensis</i>	Honewort	H	3	
<i>Desmodium</i>	<i>glutinatum</i>	Pointed-leaved tick-trefoil	M	6	
<i>Dicentra</i>	<i>cucullaria</i>	Dutchman's-breeches	L	7	x
<i>Dioscorea</i>	<i>villosa</i>	Wild yam	M	4	
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	H	2	x
<i>Galium</i>	<i>aparine</i>	Cleavers	H	1	x
<i>Galium</i>	<i>boreale</i>	Northern bedstraw	M	5	
<i>Galium</i>	<i>concinnum</i>	Elegant bedstraw	M	5	
<i>Galium</i>	<i>triflorum</i>	Three-flowered bedstraw	M	4	
<i>Geranium</i>	<i>maculatum</i>	Wild geranium	M	4	X
<i>Geum</i>	<i>canadense</i>	White avens	H	2	
<i>Helianthus</i>	<i>pauciflorus</i>	Stiff sunflower	M	7	X
<i>Hepatica</i>	<i>acutiloba</i>	Sharp-lobed hepatica	L	7	x
<i>Hydrophyllum</i>	<i>virginianum</i>	Virginia waterleaf	H	3	x
<i>Lilium</i>	<i>michiganense</i>	Michigan lily	L	6	x
<i>Maianthemum</i>	<i>canadense</i>	Canada mayflower	M	5	x
<i>Mitella</i>	<i>diphylla</i>	Two-leaved miterwort	L	7	
<i>Monotropa</i>	<i>uniflora</i>	Indian pipe	L	6	
<i>Osmorhiza</i>	<i>claytonii</i>	Clayton's sweet cicely	H	3	x
<i>Pedicularis</i>	<i>canadensis</i>	Wood-betony	L	8	
<i>Phlox</i>	<i>divaricata</i>	Blue phlox	L	7	x
<i>Phryma</i>	<i>leptostachya</i>	Lopseed	M	5	
<i>Polygonatum</i>	<i>pubescens</i>	Hairy Solomon's-seal	M	6	
<i>Polygonatum</i>	<i>biflorum</i>	Giant Solomon's-seal	M	4	
<i>Pyrola</i>	<i>elliptica</i>	Common pyrola	L	6	

<i>Ranunculus</i>	<i>abortivus</i>	Kidney-leaf buttercup	H	1	
<i>Ranunculus</i>	<i>recurvatus</i>	Hooked crowfoot	M	5	
<i>Rudbeckia</i>	<i>laciniata</i>	Goldenglow	H	6	x
<i>Sanguinaria</i>	<i>canadensis</i>	Bloodroot	L	6	x
<i>Sanicula</i>	<i>gregaria</i>	Gregarious black snakeroot	H	3	
<i>Sanicula</i>	<i>marilandica</i>	Mariland black snakeroot	M	5	
<i>Smilacina</i>	<i>racemosa</i>	false Solomon's-seal	M	5	x
<i>Smilax</i>	<i>lasioneura</i>	Carrion-flower	M	4	
<i>Solidago</i>	<i>flexicaulis</i>	Zig-zag goldenrod	M	6	x
<i>Strophostyles</i>	<i>helvula</i>	Wild bean	M	5	
<i>Thalictrum</i>	<i>dioicum</i>	Early meadow-rue	M	5	x
<i>Thalictrum</i>	<i>thalictroides</i>	Rue-anemone	M	7	x
<i>Trillium</i>	<i>cernuum</i>	Nodding trillium	L	8	
<i>Trillium</i>	<i>grandiflorum</i>	Large-flowered trillium	L	6	x
<i>Triosteum</i>	<i>perfoliatum</i>	Horse-gentian	M	5	
<i>Uvularia</i>	<i>grandiflora</i>	Yellow bellwort	L	7	x
<i>Uvularia</i>	<i>sessilifolia</i>	Pale bellwort	M	6	x
<i>Veronicastrum</i>	<i>virginicum</i>	Culver's root	M	6	x
<i>Viola</i>	<i>species</i>	Violet (multiple species)	M	5	x
<i>Zizia</i>	<i>aptera</i>	Heart-leaved alexanders	L	9	
<i>Zizia</i>	<i>aurea</i>	Golden alexanders	M	7	x
Ferns & Allies					
<i>Adiantum</i>	<i>pedatum</i>	Maidenhair fern	L	7	x
<i>Athyrium</i>	<i>filix-femina</i>	Lady-fern	M	4	x
<i>Equisetum</i>	<i>arvense</i>	Horsetail	L	1	
<i>Equisetum</i>	<i>pratense</i>	Meadow horsetail	L	9	
<i>Onoclea</i>	<i>sensibilis</i>	Sensitive fern	L	5	x
<i>Osmunda</i>	<i>claytoniana</i>	Interrupted fern	L	7	x
*Use disease resistant varieties.					

Southern (Floodplain) Terrace Forest—FFs59 (0.2 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Canopy Trees (>10 m)					
<i>Acer</i>	<i>saccharinum</i>	Silver maple	H	5	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Populus</i>	<i>deltoides</i>	Cottonwood	M	2	x
<i>Salix</i>	<i>nigra</i>	Black willow	H	4	x
<i>Tilia</i>	<i>americana</i>	Basswood	M	5	x
<i>Ulmus</i>	<i>rubra</i>	Slippery elm	M	4	
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
Understory Trees					
<i>Acer</i>	<i>saccharinum</i>	Silver maple	H	2	x
<i>Carya</i>	<i>cordiformis</i>	Bitternut hickory	M	6	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	5	x
<i>Tilia</i>	<i>americana</i>	Basswood	M	5	x
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
<i>Ulmus*</i>	<i>rubra*</i>	Slippery elm*	M	4	
Shrubs					
<i>Cornus</i>	<i>amomum</i>	Silky dogwood	M	4	x
<i>Euonymus</i>	<i>atropurpureus</i>	Wahoo	M	7	
<i>Prunus</i>	<i>virginiana</i>	Chokecherry	M	3	x
<i>Ribes</i>	<i>americanum</i>	Wild black currant	M	4	x
<i>Ribes</i>	<i>cynosbati</i>	Prickly gooseberry	H	3	x
<i>Ribes</i>	<i>missouriense</i>	Missouri gooseberry	H	4	x
<i>Sambucus</i>	<i>canadensis</i>	Common elder	H	3	x
<i>Sambucus</i>	<i>racemosa</i>	Red-berried elder	H	5	x
<i>Viburnum</i>	<i>lentago</i>	Nannyberry	M	4	x
Vines					
<i>Menispermum</i>	<i>canadense</i>	Canada moonseed	M	5	
<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	H	5	x
Forbs					
<i>Allium</i>	<i>tricoccum</i>	Wild leek	L	6	x
<i>Anemone</i>	<i>quinquefolia</i>	Wood-anemone	M	6	x
<i>Arisaema</i>	<i>triphillum</i>	Jack-in-the-pulpit	M	4	x
<i>Aster</i>	<i>cordifolius</i>	Heart-leaved aster	M	6	x
<i>Aster</i>	<i>ontarionis</i>	Ontario aster	M	6	
<i>Aster</i>	<i>pubentior</i>	Flat-topped aster	M	6	x
<i>Campanula</i>	<i>americana</i>	Tall bellflower	M	4	x
<i>Caulophyllum</i>	<i>thalictroides</i>	Blue cohosh	L	8	x
<i>Circaea</i>	<i>alpina</i>	Small enchanter's nightshade	L	7	
<i>Circaea</i>	<i>lutetiana</i>	Canada enchanter's nightshade	H	2	
<i>Cryptotaenia</i>	<i>canadensis</i>	Honewort	H	3	
<i>Dicentra</i>	<i>cucullaria</i>	Dutchman's-breeches	L	7	x

<i>Enemion</i>	<i>bitermatum</i>	False rue-anemone	L	7	x
<i>Erythronium</i>	<i>albidum</i>	White trout-lily	L	7	x
<i>Galium</i>	<i>aparine</i>	Cleavers	H	1	
<i>Galium</i>	<i>triflorum</i>	Three-flowered bedstraw	M	4	
<i>Geranium</i>	<i>maculatum</i>	Wild geranium	M	4	x
<i>Geum</i>	<i>canadense</i>	White avens	H	2	
<i>Hydrophyllum</i>	<i>virginianum</i>	Virginia waterleaf	H	3	x
<i>Impatiens</i>	<i>capensis</i>	Touch-me-not	H	2	
<i>Lilium</i>	<i>michiganense</i>	Michigan lily	L	6	x
<i>Maianthemum</i>	<i>canadense</i>	Canada mayflower	M	5	x
<i>Osmorhiza</i>	<i>claytonii</i>	Clayton's sweet cicely	H	3	x
<i>Phlox</i>	<i>divaricata</i>	Blue phlox	L	7	x
<i>Polygonatum</i>	<i>biflorum</i>	Giant Solomon's-seal	M	4	
<i>Ranunculus</i>	<i>abortivus</i>	Kidney-leaf buttercup	H	1	
<i>Rudbeckia</i>	<i>laciniata</i>	Goldenglow	H	6	x
<i>Sanguinaria</i>	<i>canadensis</i>	Bloodroot	L	6	x
<i>Sanicula</i>	<i>gregaria</i>	Gregarious black snakeroot	H	3	
<i>Smilacina</i>	<i>racemosa</i>	Racemose false Solomon's-seal	M	5	x
<i>Smilacina</i>	<i>stellata</i>	Starry false Solomon's-seal	M	5	
<i>Smilax</i>	<i>lasioneura</i>	Carrion-flower	M	4	
<i>Stachys</i>	<i>palustris</i>	Woundwort	M	5	
<i>Thalictrum</i>	<i>dasycarpum</i>	Tall meadow-rue	M	4	x
<i>Thalictrum</i>	<i>dioicum</i>	Early meadow-rue	M	5	x
<i>Trillium</i>	<i>cernuum</i>	Nodding trillium	L	8	
<i>Trillium</i>	<i>flexipes</i>	Drooping trillium	L	7	
<i>Uvularia</i>	<i>grandiflora</i>	Yellow bellwort	L	7	x
<i>Viola</i>	species	Violet (multiple species)	M	5	x
Grasses, Rushes and Sedges					
<i>Calamagrostis</i>	<i>canadensis</i>	Bluejoint	H	5	x
<i>Carex</i>	<i>amphibola</i>	Ambiguous sedge	M	4	
<i>Carex</i>	<i>pedunculata</i>	Long-stalked sedge	L	7	
<i>Carex</i>	<i>sprengelii</i>	Sprengel's sedge	M	6	x
<i>Carex</i>	<i>radiata</i>	Stellate sedge	M	4	x
<i>Cinna</i>	<i>arundinacea</i>	Stout woodreed	M	5	
<i>Elymus</i>	<i>hystrix</i>	Bottlebrush grass	M	6	x
<i>Elymus</i>	<i>virginicus</i>	Virginia wild rye	H	6	x
<i>Elymus</i>	<i>wiegandii</i>	Canada wild rye	H	4	x
<i>Glyceria</i>	<i>striata</i>	Fowl manna-grass	M	4	x
Ferns and Fern Allies					
<i>Matteuccia</i>	<i>struthiopteris</i>	Ostrich-fern	M	5	x
*Use disease resistant varieties.					

Southern Seepage (Sedge) Meadow Carr—WMs83

(4.1 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Shrubs*					
<i>Cornus</i>	<i>amomum</i>	Silky dogwood*	M	4	x
<i>Cornus</i>	<i>sericea</i>	Red-osier dogwood*	M	3	x
<i>Ilex</i>	<i>verticillata</i>	Winterberry*	M	6	x
<i>Salix</i>	<i>bebbiana</i>	Bebb's willow*	M	6	x
<i>Salix</i>	<i>candida</i>	Sage-leaved willow*	M	9	
<i>Salix</i>	<i>discolor</i>	Pussy willow*	M	3	x
<i>Salix</i>	<i>exigua</i>	Sandbar willow*	M	2	x
<i>Salix</i>	<i>pedicellaris</i>	Bog willow*	M	8	
<i>Salix</i>	<i>petiolaris</i>	Slender willow*	M	5	
<i>Spiraea</i>	<i>alba</i>	Meadowsweet*	M	5	x
<i>Spiraea</i>	<i>tomentosa</i>	Steeple-bush*	M	7	x
Forbs					
<i>Acorus</i>	<i>calamus</i>	Sweet flag	M	7	x
<i>Alisma</i>	<i>triviale</i>	Ordinary water-plantain	L	4	x
<i>Anemone</i>	<i>canadensis</i>	Canada anemone	M	3	x
<i>Apios</i>	<i>americana</i>	Groundnut	M	4	
<i>Apocynum</i>	<i>sibiricum</i>	Clasping dogbane	M	3	
<i>Asclepias</i>	<i>incarnata</i>	Swamp milkweed	M	4	x
<i>Aster</i>	<i>borealis</i>	Bog aster	M	10	
<i>Aster</i>	<i>lanceolatus</i>	Panicled aster	M	4	x
<i>Aster</i>	<i>firmus</i>	Red-stemmed aster	M	6	
<i>Aster</i>	<i>umbellatus</i>	Flat-topped aster	M	6	x
<i>Bidens</i>	<i>species</i>	Beggar-ticks (multiple species)	M	1 to 8	
<i>Calla</i>	<i>palustris</i>	Wild calla	L	8	
<i>Caltha</i>	<i>palustris</i>	Swamp marsh-marigold	M	6	
<i>Campanula</i>	<i>aparinoides</i>	Marsh bellflower	M	5	
<i>Chelone</i>	<i>glabra</i>	White turtlehead	M	7	x
<i>Cicuta</i>	<i>bulbifera</i>	Bulb-bearing water-hemlock	L	7	
<i>Cicuta</i>	<i>maculata</i>	Spotted water-hemlock	L	5	
<i>Cirsium</i>	<i>muticum</i>	Swamp thistle	M	6	
<i>Epilobium</i>	<i>species</i>	Willow-herb	M	3 to 8	
<i>Eupatorium</i>	<i>maculatum</i>	Spotted Joe-pye weed	M	4	x
<i>Eupatorium</i>	<i>perfoliatum</i>	Common boneset	M	4	x
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	M	2	x
<i>Galium</i>	<i>trifidum</i>	Three-cleft bedstraw	M	6	
<i>Gentiana</i>	<i>billingtonii</i>	Closed gentian	L		
<i>Geum</i>	<i>aleppicum</i>	Yellow avens	M	3	
<i>Platanthera</i>	<i>psycodes</i>	Small purple fringed-orchid	L	7	
<i>Helenium</i>	<i>autumnale</i>	Autumn sneezeweed	M	4	x
<i>Hypericum</i>	<i>majus</i>	Large St. John's-wort	M	5	
<i>Impatiens</i>	<i>species</i>	Touch-me-not	H	2 to 5	
<i>Iris</i>	<i>versicolor</i>	Northern blue Flag	M	4	x
<i>Lycopus</i>	<i>americanus</i>	Cut-leaved bugleweed	M	4	
<i>Lycopus</i>	<i>uniflorus</i>	Northern bugleweed	M	5	
<i>Lysimachia</i>	<i>terrestris</i>	Yellow loosestrife	M	7	
<i>Lysimachia</i>	<i>thyrsiflora</i>	Tufted loosestrife	M	6	
<i>Pedicularis</i>	<i>lanceolata</i>	Swamp lousewort	M	8	
<i>Polygonum</i>	<i>amphibium</i>	Water smartweed	M	4	
<i>Pycnanthemum</i>	<i>virginianum</i>	Virginia mountain-mint	M	6	x
<i>Ranunculus</i>	<i>pensylvanicus</i>	Bristly buttercup	M	5	
<i>Rubus</i>	<i>pubescens</i>	Dwarf raspberry	M	6	

<i>Rumex</i>	<i>orbiculatus</i>	Great water dock	L	8	
<i>Sagittaria</i>	<i>latifolia</i>	Broad-leaved arrowhead	M	3	x
<i>Saxifraga</i>	<i>pensylvanica</i>	Swamp saxifrage	M	7	
<i>Scutellaria</i>	<i>galericulata</i>	Marsh skullcap	M	5	
<i>Scutellaria</i>	<i>lateriflora</i>	Mad-dog skullcap	M	5	
<i>Sium</i>	<i>suave</i>	Water-parsnip	L	5	
<i>Maianthemum</i>	<i>stellata</i>	Starry false Solomon's-seal	M	5	
<i>Sparganium</i>	<i>eurycarpum</i>	Giant bur-reed	M	5	x
<i>Stachys</i>	<i>palustris</i>	Woundwort	M	4	
<i>Teucrium</i>	<i>canadense</i>	Germander	H	4	
<i>Thalictrum</i>	<i>dasycarpum</i>	Tall meadow-rue	M	4	x
<i>Verbena</i>	<i>hastata</i>	Blue vervain	H	6	x
<i>Veronica</i>	<i>scutellata</i>	Marsh speedwell	M	6	
<i>Viola</i>	species	Violet	M	4 to 8	
Grasses, Rushes and Sedges					
<i>Bromus</i>	<i>ciliatus</i>	Fringed brome	M	6	x
<i>Calamagrostis</i>	<i>canadensis</i>	Bluejoint	M	4	x
<i>Carex</i>	<i>bebbii</i>	Bebb's sedge	H	4	x
<i>Carex</i>	<i>buxbaumii</i>	Buxbaum's sedge	M	8	
<i>Carex</i>	<i>cephalantha</i>	Bunched sedge	M	4	
<i>Carex</i>	<i>diandra</i>	Lesser-panicled sedge	M	9	
<i>Carex</i>	<i>haydenii</i>	Hayden's sedge	M	8	
<i>Carex</i>	<i>interior</i>	Inland sedge	M	7	
<i>Carex</i>	<i>lacustris</i>	Lake-sedge	L	6	x
<i>Carex</i>	<i>lasiocarpa</i>	Wire-sedge	M	9	x
<i>Carex</i>	<i>prairea</i>	Prairie sedge	L	10	
<i>Carex</i>	<i>sartwellii</i>	Sartwell's sedge	M	7	
<i>Carex</i>	<i>scoparia</i>	Pointed-broom sedge	M	4	x
<i>Carex</i>	<i>stipata</i>	Awl-fruited sedge	M	2	x
<i>Carex</i>	<i>stricta</i>	Tusssock-sedge	L	7	x
<i>Carex</i>	<i>tribuloides</i>	Blunt-broom sedge	M	4	
<i>Carex</i>	<i>pellita</i>	Woolly sedge	M	4	
<i>Carex</i>	<i>utriculata</i>	Beaked sedge	M	7	
<i>Dulichium</i>	<i>arundinaceum</i>	Three-way sedge	M	8	
<i>Eriophorum</i>	<i>angustifolium</i>	Narrow-leaved cotton-grass	L	9	
<i>Glyceria</i>	<i>canadensis</i>	Rattlesnake grass	M	7	
<i>Glyceria</i>	<i>grandis</i>	Tall manna-grass	M	6	x
<i>Glyceria</i>	<i>striata</i>	Fowl manna-grass	M	4	
<i>Juncus</i>	<i>canadensis</i>	Canada rush	M	7	
<i>Leersia</i>	<i>oryzoides</i>	Rice cut grass	M	3	
<i>Leersia</i>	<i>virginica</i>	White grass	M	5	
<i>Muhlenbergia</i>	<i>racemosa</i>	Marsh muhly grass	M	4	
<i>Scirpus</i>	<i>acutus</i>	Hard-stemmed bulrush	M	6	
<i>Scirpus</i>	<i>atrovirens</i>	Dark green bulrush	M	4	x
<i>Scirpus</i>	<i>cyperinus</i>	Wool-grass	M	3	x
<i>Scirpus</i>	<i>pungens</i>	Three-square	M	6	x
<i>Scirpus</i>	<i>validus</i>	Softstem bulrush	M	4	x
<i>Spartina</i>	<i>pectinata</i>	Prairie cord-grass	M	5	x
Ferns and Fern Allies					
<i>Equisetum</i>	<i>fluviatile</i>	Water horsetail	L	7	
<i>Equisetum</i>	<i>arvense</i>	Field horsetail	L	1	
<i>Onoclea</i>	<i>sensibilis</i>	Sensitive fern	M	4	x
<i>Thelypteris</i>	<i>palustris</i>	Northern marsh-fern	M	7	x

*Limit planting density due to aggressive nature of species.

Northern Bulrush-Spikerush Marsh—MRn93 (0.5 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Shrubs					
<i>Amorpha</i>	<i>fruticosa</i>	False indigo	M	6	x
Forbs					
<i>Acorus</i>	<i>calamus</i>	Sweet flag	M	7	x
<i>Alisma</i>	<i>subcordatum</i>	Heart-leaved water-plantain	L	4	
<i>Alisma</i>	<i>triviale</i>	Ordinary water-plantain	L	4	x
<i>Aster</i>	<i>lanceolatus</i>	Panicled aster	M	4	x
<i>Bidens</i>	<i>species</i>	Beggar-ticks (multiple species)	M	5	
<i>Boehmeria</i>	<i>cylindrica</i>	False nettle	M	5	
<i>Campanula</i>	<i>aparinoides</i>	Marsh bellflower	M	5	
<i>Cicuta</i>	<i>bulbifera</i>	Bulb-bearing water-hemlock	L	7	
<i>Cicuta</i>	<i>maculata</i>	Spotted water-hemlock	L	5	
<i>Epilobium</i>	<i>species</i>	Willow-herb	L	3 to 8	
<i>Eriocaulon</i>	<i>aquaticum</i>	Pipewort	L	9	
<i>Eupatorium</i>	<i>maculatum</i>	Spotted Joe-pye weed	M	4	x
<i>Eupatorium</i>	<i>perfoliatum</i>	Common boneset	M	4	x
<i>Eupatorium</i>	<i>purpureum</i>	Sweet Joe-pye weed	M	4	x
<i>Euthamia</i>	<i>graminifolia</i>	Grass-leaved goldenrod	M	4	x
<i>Galium</i>	<i>labradoricum</i>	Marsh bedstraw	M	9	
<i>Galium</i>	<i>tinctorium</i>	Small bedstraw	M	5	
<i>Galium</i>	<i>trifidum</i>	Three-cleft bedstraw	M	6	
<i>Hypericum</i>	<i>majus</i>	Large St. John's-wort	M	5	
<i>Impatiens</i>	<i>species</i>	Spotted touch-me-not (two species)	H	2 to 5	
<i>Iris</i>	<i>versicolor</i>	Northern blue Flag	M	4	x
<i>Ludwigia</i>	<i>palustris</i>	Common water primrose	L	5	
<i>Lycopus</i>	<i>americanus</i>	Cut-leaved bugleweed	M	4	
<i>Lycopus</i>	<i>asper</i>	Rough bugleweed	M	4	
<i>Lycopus</i>	<i>uniflorus</i>	Northern bugleweed	M	5	
<i>Lysimachia</i>	<i>ciliata</i>	Fringed loosestrife	M	5	x
<i>Lysimachia</i>	<i>terrestris</i>	Yellow loosestrife	M	7	
<i>Lysimachia</i>	<i>thyrsoiflora</i>	Tufted loosestrife	M	6	
<i>Mentha</i>	<i>arvensis</i>	Common mint	H	3	
<i>Mimulus</i>	<i>ringens</i>	Purple monkey-flower	M	5	x
<i>Nuphar</i>	<i>luteum</i>	Yellow pond-lily	L	9	
<i>Nymphaea</i>	<i>odorata</i>	Waterlily	L	6	
<i>Physostegia</i>	<i>virginiana</i>	Obedient plant	M	6	x
<i>Polygonum</i>	<i>amphibium</i>	Water smartweed	M	6	
<i>Polygonum</i>	<i>lapathifolium</i>	Nodding smartweed	M	2	
<i>Polygonum</i>	<i>pensylvanicum</i>	Pennsylvania smartweed	M	1	
<i>Polygonum</i>	<i>punctatum</i>	Dotted smartweed	M	5	
<i>Potentilla</i>	<i>norvegica</i>	Rough cinquefoil	M	1	
<i>Ranunculus</i>	<i>hispidus</i>	Hispid buttercup	M	6	
<i>Ranunculus</i>	<i>pensylvanicus</i>	Bristly buttercup	M	5	
<i>Rumex</i>	<i>maritimus</i>	Golden dock	L	1	

<i>Sagittaria</i>	<i>latifolia</i>	Broad-leaved arrowhead	M	3	x
<i>Sagittaria</i>	<i>rigida</i>	Sessile-fruited arrowhead	M	7	
<i>Scutellaria</i>	<i>galericulata</i>	Marsh skullcap	M	5	
<i>Scutellaria</i>	<i>lateriflora</i>	Mad-dog skullcap	M	5	
<i>Sium</i>	<i>suave</i>	Water-parsnip	L	5	
<i>Sparganium</i>	<i>androcladum</i>	Branching bur reed	L	8	
<i>Sparganium</i>	<i>eurycarpum</i>	Giant bur-reed	M	5	x
<i>Sparganium</i>	<i>erectum</i>	Unbranched bur reed	L	7	
<i>Triadenum</i>	<i>fraseri</i>	Marsh St. John's-wort	M	6	
<i>Verbena</i>	<i>hastata</i>	Blue vervain	H	6	x
Grasses, Rushes and Sedges					
<i>Calamagrostis</i>	<i>canadensis</i>	Bluejoint	M	4	x
<i>Carex</i>	<i>comosa</i>	Bristly sedge	M	5	x
<i>Carex</i>	<i>diandra</i>	Lesser-panicled sedge	L	9	
<i>Carex</i>	<i>scoparia</i>	Pointed-broom sedge	M	4	
<i>Cyperus</i>	<i>odoratus</i>	Fragrant cyperus	M	4	
<i>Dulichium</i>	<i>arundinaceum</i>	Three-way sedge	M	8	
<i>Eleocharis</i>	<i>acicularis</i>	Least spikerush	M	4	
<i>Eleocharis</i>	<i>elliptica</i>	Elliptic spikerush	M	7	
<i>Eleocharis</i>	<i>ovata</i>	Ovoid spikerush	M	6	
<i>Glyceria</i>	<i>borealis</i>	Northern manna grass	M	8	
<i>Glyceria</i>	<i>grandis</i>	Tall manna-grass	M	6	x
<i>Juncus</i>	<i>brevicaudatus</i>	Narrow-panicled rush	M	7	
<i>Juncus</i>	<i>effusus</i>	Soft rush	M	4	x
<i>Juncus</i>	<i>nodosus</i>	Knotty rush	M	5	
<i>Juncus</i>	<i>canadensis</i>	Canada rush	M	7	
<i>Leersia</i>	<i>oryzoides</i>	Rice cut grass	M	3	
<i>Schoenoplectrus</i>	<i>acutus</i>	Hard-stemmed bulrush	M	6	x
<i>Schoenoplectrus</i>	<i>fluviatilis</i>	River bulrush	M	4	x
<i>Schoenoplectrus</i>	<i>smithii</i>	Blunt-scale bulrush	M	8	
<i>Schoenoplectrus</i>	<i>validus</i>	Softstem bulrush	M	4	x
<i>Scirpus</i>	<i>atrovirens</i>	Dark green bulrush	M	4	x
<i>Scirpus</i>	<i>cyperinus</i>	Wool-grass	M	3	x
<i>Spartina</i>	<i>pectinata</i>	Prairie cord-grass	M	5	x

Southern Wet Prairie—WPs54

(2.0 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak			x
Shrubs					
<i>Cornus</i>	<i>racemosa</i>	Gray dogwood*	H	2	x
<i>Cornus</i>	<i>sericea</i>	Red-osier dogwood*	M	3	x
<i>Salix</i>	<i>bebbiana</i>	Bebb's willow*	M	6	x
<i>Salix</i>	<i>discolor</i>	Pussy willow*	M	3	x
<i>Salix</i>	<i>petiolaris</i>	Slender willow*	M	5	x
<i>Spiraea</i>	<i>alba</i>	Meadowsweet*	M	5	x
Forbs					
<i>Achillea</i>	<i>millefolium</i>	Yarrow	H	1	x
<i>Agastache</i>	<i>foeniculum</i>	Blue giant-hyssop	M	4	x
<i>Anemone</i>	<i>canadensis</i>	Canada anemone	M	4	x
<i>Apios</i>	<i>americana</i>	Groundnut	M	4	
<i>Apocynum</i>	<i>sibiricum</i>	Clasping dogbane	M	3	
<i>Asclepias</i>	<i>incarnata</i>	Swamp milkweed	H	4	x
<i>Aster</i>	<i>lanceolatus</i>	Panicked aster	M	4	x
<i>Aster</i>	<i>novae-angliae</i>	New England aster	H	3	x
<i>Aster</i>	<i>firmus</i>	Red-stemmed aster	M	6	x
<i>Aster</i>	<i>umbellatus</i>	Flat-topped aster	M	6	x
<i>Campanula</i>	<i>aparinoides</i>	Marsh bellflower	M	5	
<i>Castilleja</i>	<i>coccinea</i>	Indian paintbrush	M	6	x
<i>Chelone</i>	<i>glabra</i>	White turtlehead	M	7	x
<i>Cicuta</i>	<i>maculata</i>	Spotted water-hemlock	L	5	
<i>Cirsium</i>	<i>muticum</i>	Swamp thistle	L	6	
<i>Comandra</i>	<i>umbellata</i>	Bastard toad-flax	L	6	
<i>Desmodium</i>	<i>canadense</i>	Canadian tick-trefoil	M	4	x
<i>Epilobium</i>	species	Willow-herb (multiple species)	M	3 to 8	
<i>Eupatorium</i>	<i>maculatum</i>	Spotted Joe-pye weed	M	4	x
<i>Eupatorium</i>	<i>perfoliatum</i>	Common boneset	M	4	x
<i>Euphorbia</i>	<i>corollata</i>	Flowering spurge	M	4	x
<i>Euthamia</i>	<i>graminifolia</i>	Grass-leaved goldenrod	M	4	x
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	H	2	x
<i>Galium</i>	<i>triflorum</i>	Three-flowered bedstraw	M	6	
<i>Gentiana x</i>	<i>billingtonii</i>	Closed gentian	L		
<i>Gentianopsis</i>	<i>procera</i>	Smaller fringed gentian	L	8	
<i>Geum</i>	<i>aleppicum</i>	Yellow avens	H	3	
<i>Geum</i>	<i>canadense</i>	White avens	H	2	
<i>Helenium</i>	<i>autumnale</i>	Autumn sneezeweed	M	4	x
<i>Helianthus</i>	<i>giganteus</i>	Giant sunflower	M	4	x
<i>Helianthus</i>	<i>grosseserratus</i>	Sawtooth sunflower	M	3	x
<i>Hypoxis</i>	<i>hirsuta</i>	Yellow star-grass	L	8	
<i>Iris</i>	<i>versicolor</i>	Northern blue Flag	M	4	x
<i>Krigia</i>	<i>biflora</i>	Two-flowered Cynthia	M	5	
<i>Lathyrus</i>	<i>palustris</i>	Marsh vetchling	M	6	

<i>Lathyrus</i>	<i>venosus</i>	Veiny pea	M	6	
<i>Liatris</i>	<i>ligulistylis</i>	Northern plains blazing star	M	7	x
<i>Liatris</i>	<i>pycnostachya</i>	Gayfeather	M	7	x
<i>Lilium</i>	<i>michiganense</i>	Michigan lily	L	7	x
<i>Liparis</i>	<i>loeselii</i>	Loesel's twayblade	L	6	
<i>Lobelia</i>	<i>siphilitica</i>	Great lobelia	H	5	x
<i>Lobelia</i>	<i>spicata</i>	Rough-spiked lobelia	M	7	
<i>Lycopus</i>	<i>americanus</i>	Cut-leaved bugleweed	M	4	
<i>Lycopus</i>	<i>uniflorus</i>	Northern bugleweed	M	5	
<i>Lysimachia</i>	<i>ciliata</i>	Fringed loosestrife	M	5	x
<i>Lysimachia</i>	<i>quadriflora</i>	Prairie loosestrife	L	8	
<i>Lythrum</i>	<i>alatum</i>	Wing-angled loosestrife	M	6	
<i>Maianthemum</i>	<i>stellatum</i>	Starry false Solomon's-seal	M	5	x
<i>Mentha*</i>	<i>arvensis*</i>	Common mint*	H	3	
<i>Mimulus</i>	<i>ringens</i>	Purple monkey-flower	M	5	x
<i>Oenothera</i>	<i>perennis</i>	Perennial evening-primrose*	M	6	
<i>Parnassia</i>	<i>glauca</i>	American grass-of-Parnassus	L	9	
<i>Pedicularis</i>	<i>canadensis</i>	Wood-betony	L	8	
<i>Pedicularis</i>	<i>lanceolata</i>	Swamp lousewort	L	8	
<i>Phlox</i>	<i>pilosa</i>	Prairie phlox	L	7	x
<i>Plantathera</i>	<i>lacera</i>	Ragged fringed-orchid	L	7	
<i>Plantathera</i>	<i>psycodes</i>	Small purple fringed-orchid	L	7	
<i>Polygala</i>	<i>sanguinea</i>	Purple milkwort	L	5	
<i>Polygala</i>	<i>senega</i>	Seneca snakeroot	L	7	x
<i>Polygonum</i>	<i>amphibium</i>	Water smartweed	M	4	
<i>Polygonum</i>	<i>punctatum</i>	Dotted smartweed	M	5	
<i>Potentilla</i>	<i>simplex</i>	Old-field cinquefoil	H	2	
<i>Prenanthes</i>	<i>racemosa</i>	Smooth rattlesnake-root	L	9	x
<i>Pycnanthemum</i>	<i>virginianum</i>	Virginia mountain-mint	M	6	x
<i>Ratibida</i>	<i>pinnata</i>	Gray-headed coneflower	H	4	x
<i>Rubus</i>	<i>pubescens</i>	Dwarf raspberry	M	6	
<i>Rudbeckia</i>	<i>laciniata</i>	Goldenglow	M	4	x
<i>Saxifraga</i>	<i>pensylvanica</i>	Swamp saxifrage	L	7	
<i>Scutellaria</i>	<i>parvula</i>	Prairie skullcap	M	6	
<i>Senecio</i>	<i>aurea</i>	Golden ragwort	M	6	
<i>Silphium</i>	<i>perfoliatum</i>	Cup-plant*	H	4	x
<i>Sisyrinchium</i>	<i>mucronatum</i>	Pointed-petal blue-eyed grass	L	7	
<i>Solidago</i>	<i>riddellii</i>	Riddell's goldenrod	M	7	x
<i>Stachys</i>	<i>palustris</i>	Woundwort	M	4	
<i>Teucrium</i>	<i>canadense</i>	Germander	M	4	x
<i>Thalictrum</i>	<i>dasycarpum</i>	Tall meadow-rue	M	4	x
<i>Triglochin</i>	<i>maritima</i>	Seaside arrow-grass	L	10	
<i>Verbena</i>	<i>hastata</i>	Blue vervain	H	6	x
<i>Vernonia</i>	<i>fasciculata</i>	Bunched ironweed	M	5	x
<i>Veronicastrum</i>	<i>virginicum</i>	Culver's root	M	6	x
<i>Viola</i>	species	Violet (multiple species)	M	5	x
<i>Zizia</i>	<i>aurea</i>	Golden alexanders	H	6	x
Grasses, Rushes and Sedges					
<i>Agrostis</i>	<i>hyemalis</i>	Rough bent-grass	L	8	

<i>Andropogon</i>	<i>gerardii</i>	Big bluestem	M	4	x
<i>Bromus</i>	<i>ciliatus</i>	Fringed brome	M	6	x
<i>Calamagrostis</i>	<i>canadensis</i>	Bluejoint	M	4	x
<i>Calamagrostis</i>	<i>stricta</i>	Bog reed-grass	L	7	
<i>Carex</i>	<i>bebbii</i>	Bebb's sedge	M	4	x
<i>Carex</i>	<i>buxbaumii</i>	Buxbaum's sedge	L	8	
<i>Carex</i>	<i>conoidea</i>	Field sedge	L	8	
<i>Carex</i>	<i>granularis</i>	Granular sedge	M	3	
<i>Carex</i>	<i>haydenii</i>	Hayden's sedge	L	8	
<i>Carex</i>	<i>interior</i>	Inland sedge	L	7	
<i>Carex</i>	<i>lacustris</i>	Lake-sedge	L	6	
<i>Carex</i>	<i>sartwellii</i>	Sartwell's sedge	L	7	
<i>Carex</i>	<i>scoparia</i>	Pointed-broom sedge	M	4	
<i>Carex</i>	<i>stipata</i>	Awl-fruited sedge	H	2	x
<i>Carex</i>	<i>stricta</i>	Tusssock-sedge	M	7	x
<i>Carex</i>	<i>tenera</i>	Marsh-straw sedge	M	4	
<i>Carex</i>	<i>tetanica</i>	Wood-sedge	L	7	x
<i>Carex</i>	<i>pellita</i>	Woolly sedge	M	4	
<i>Dicanthelium</i>	<i>boreale</i>	Northern panic grass	M	5	
<i>Eleocharis</i>	<i>compressa</i>	Flattened spike-rush	L	8	
<i>Eriophorum</i>	<i>angustifolium</i>	Narrow-leaved cotton-grass	L	9	
<i>Glyceria</i>	<i>striata</i>	Fowl manna-grass	M	4	x
<i>Hierochloa</i>	<i>odorata</i>	Sweet grass	M	7	x
<i>Juncus</i>	<i>nodosus</i>	Knotty rush	M	5	
<i>Juncus</i>	<i>tenuis</i>	Path rush	M	1	x
<i>Juncus</i>	<i>vaseyi</i>	Vasey's rush	L	7	
<i>Juncus</i>	<i>dudleyi</i>	Dudley's rush	M	3	
<i>Leersia</i>	<i>oryzoides</i>	Rice cut grass	H	3	
<i>Muhlenbergia</i>	<i>frondosa</i>	Swamp satin-grass	M	3	
<i>Muhlenbergia</i>	<i>glomerata</i>	Clustered muhly grass	L	8	
<i>Panicum</i>	<i>virgatum</i>	Switchgrass	H	2	x
<i>Poa</i>	<i>palustris</i>	Fowl meadow-grass	M	5	
<i>Scirpus</i>	<i>atrovirens</i>	Dark green bulrush	M	4	x
<i>Scirpus</i>	<i>cyperinus</i>	Wool-grass	M	3	x
<i>Sorghastrum</i>	<i>nutans</i>	Indian grass	M	5	x
<i>Spartina</i>	<i>pectinata</i>	Prairie cord-grass	M	5	x
<i>Sphenopholis</i>	<i>obtusata</i>	Prairie wedge-grass	L	8	
Ferns and Fern Allies					
<i>Equisetum</i>	<i>arvense</i>	Field horsetail	L	7	
<i>Equisetum</i>	<i>pratense</i>	Meadow horsetail	L	9	
<i>Onoclea</i>	<i>sensibilis</i>	Sensitive fern	M	4	x
<i>Ophioglossum</i>	<i>pusillum</i>	Adder's-tongue	L	8	
<i>Thelypteris</i>	<i>palustris</i>	Northern marsh-fern	L	7	x

*Use small quantities of these species.

Southern Mesic Savanna—UPs24

(4.2 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Trees					
<i>Quercus</i>	<i>ellipsoidalis</i>	Northern pin oak	M	5	X
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak	M	5	X
Shrubs					
<i>Amorpha</i>	<i>canescens</i>	Lead-plant	L	7	X
<i>Prunus</i>	<i>virginiana</i>	Chokecherry	M	3	X
<i>Rosa</i>	<i>arkansana</i>	Prairie rose	M	5	X
<i>Salix</i>	<i>humilis</i>	Prairie willow	M	6	X
<i>Symphoricarpos</i>	<i>abla</i>	Snowberry	M	6	
Grasses, Rushes and Sedges					
<i>Andropogon</i>	<i>gerardii</i>	Big bluestem	M	4	X
<i>Bromus</i>	<i>kalmii</i>	Kalm's brome	M	8	X
<i>Carex</i>	<i>bicknellii</i>	Bicknell's sedge	M	6	X
<i>Carex</i>	<i>meadii</i>	Mead's sedge	M	6	
<i>Carex</i>	<i>muhlenbergii</i>	Muhlenberg's sedge	M	4	X
<i>Elymus</i>	<i>canadensis</i>	Canada wild rye	H	4	X
<i>Dicanthelium</i>	<i>perlongum</i>	Long-leaved panic grass	M	7	
<i>Panicum</i>	<i>virgatum</i>	Switchgrass	H	2	X
<i>Schizachyrium</i>	<i>scoparium</i>	Little bluestem	M	4	X
<i>Sorghastrum</i>	<i>nutans</i>	Indian grass	M	5	X
<i>Sporobolus</i>	<i>heterolepis</i>	Prairie dropseed	L	10	X
<i>Stipa</i>	<i>spartea</i>	Porcupine-grass	M	9	X
Forbs					
<i>Allium</i>	<i>canadense</i>	Wild garlic	M	4	
<i>Allium</i>	<i>stellatum</i>	Prairie wild onion	M	9	X
<i>Anemone</i>	<i>canadensis</i>	Canada anemone	M	4	X
<i>Anemone</i>	<i>cylindrica</i>	Long-headed thimbleweed	M	6	X
<i>Anemone</i>	<i>virginiana</i>	Virginia thimbleweed	M	5	
<i>Antennaria</i>	<i>species</i>	Pussytoes	L	3	
<i>Apocynum</i>	<i>androsaemifolium</i>	Spreading dogbane	M	3	
<i>Artemisia</i>	<i>campestris</i>	Tall wormwood	M	4	X
<i>Artemisia</i>	<i>frigida</i>	Prairie sagewort	L	9	
<i>Asclepias</i>	<i>syriaca</i>	Common milkweed	H	1	
<i>Asclepias</i>	<i>tuberosa</i>	Butterfly-weed	M	6	X
<i>Aster</i>	<i>ericoides</i>	Heath aster	M	4	X
<i>Aster</i>	<i>laevis</i>	Smooth aster	M	6	X
<i>Aster</i>	<i>lanceolatus</i>	Panicled aster	M	4	X
<i>Aster</i>	<i>novae-angliae</i>	New England aster	H	3	X
<i>Aster</i>	<i>oolentangiensis</i>	Sky-blue aster	M	5	X
<i>Astragalus</i>	<i>canadensis</i>	Canada milk-vetch	L	8	X
<i>Campanula</i>	<i>rotundifolia</i>	Harebell	M	5	X
<i>Comandra</i>	<i>umbellata</i>	Bastard toad-flax	L	6	
<i>Coreopsis</i>	<i>palmata</i>	Stiff tickseed	M	8	X
<i>Dalea</i>	<i>candida</i>	White prairie-clover	M	8	X
<i>Dalea</i>	<i>purpurea</i>	Purple prairie-clover	M	7	X
<i>Desmodium</i>	<i>canadense</i>	Canadian tick-trefoil	M	4	X
<i>Euphorbia</i>	<i>corollata</i>	Flowering spurge	M	4	
<i>Euthamia</i>	<i>graminifolia</i>	Grass-leaved goldenrod	M	4	X
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	M	2	X
<i>Galium</i>	<i>boreale</i>	Northern bedstraw	M	5	X

<i>Gentiana x</i>	<i>billingtonii</i>	Closed gentian	L		
<i>Geum</i>	<i>triflorum</i>	Prairie smoke	M	7	x
<i>Helianthus</i>	<i>maximiliani</i>	Maximilian's sunflower	M		x
<i>Helianthus</i>	<i>pauciflorus</i>	Stiff sunflower	M	7	x
<i>Heliopsis</i>	<i>helianthoides</i>	Ox-eye	H	5	x
<i>Heterotheca</i>	<i>villosa</i>	Prairie golden aster	M	5	
<i>Heuchera</i>	<i>richardsonii</i>	Alum-root	M	7	x
<i>Lathyrus</i>	<i>venosus</i>	Veiny pea	M	6	
<i>Lespedeza</i>	<i>capitata</i>	Round-headed bush-clover	M	5	x
<i>Liatis</i>	<i>aspera</i>	Rough blazing star	M	5	x
<i>Liatis</i>	<i>ligulistylis</i>	Northern plains blazing star	M	7	x
<i>Liatis</i>	<i>pycnostachya</i>	Gayfeather	M	7	x
<i>Lilium</i>	<i>philadelphicum</i>	Wood lily	L	9	x
<i>Lobelia</i>	<i>spicata</i>	Rough-spiked Lobelia	M	7	x
<i>Maianthemum</i>	<i>racemosum</i>	False Solomon's-seal	M	5	x
<i>Maianthemum</i>	<i>stellata</i>	Starry false Solomon's-seal	M	5	x
<i>Mirabilis</i>	<i>hirsuta</i>	Hairy four-o'clock	M	3	
<i>Monarda</i>	<i>fistulosa</i>	Wild bergamot	H	3	x
<i>Oenothera</i>	<i>biennis</i>	Common evening-primrose	H	1	x
<i>Pedicularis</i>	<i>canadensis</i>	Wood-betony	L	8	
<i>Phlox</i>	<i>pilosa</i>	Prairie phlox	L	7	x
<i>Physalis</i>	<i>heterophylla</i>	Clammy ground-cherry	M	3	
<i>Potentilla</i>	<i>arguta</i>	Tall cinquefoil	M	7	
<i>Pycnanthemum</i>	<i>virginianum</i>	Virginia mountain-mint	M	6	x
<i>Ratibida</i>	<i>pinnata</i>	Gray-headed coneflower	H	4	x
<i>Rudbeckia</i>	<i>hirta</i>	Black-eyed Susan	H	4	x
<i>Sisyrinchium</i>	<i>campestre</i>	Field blue-eyed grass	L	7	x
<i>Solidago</i>	<i>missouriensis</i>	Missouri goldenrod	M	7	x
<i>Solidago</i>	<i>nemoralis</i>	Gray goldenrod	M	4	x
<i>Solidago</i>	<i>ptarmicoides</i>	Upland white goldenrod	M	8	
<i>Solidago</i>	<i>speciosa</i>	Showy goldenrod	M	5	x
<i>Thalictrum</i>	<i>dasycarpum</i>	Tall meadow-rue	M	4	x
<i>Tradescantia</i>	<i>bracteata</i>	Bracted spiderwort	M	7	x
<i>Veronicastrum</i>	<i>virginicum</i>	Culver's root	M	6	x
<i>Viola</i>	<i>pedatifida</i>	Prairie bird-foot violet	L	9	x
<i>Zizia</i>	<i>aurea</i>	Golden alexanders	H	6	x
Ferns and Fern Allies					
<i>Equisetum</i>	<i>arvense</i>	Field horsetail	L	7	
<i>Equisetum</i>	<i>hyemale</i>	Tall scouring-rush	L	3	
<i>Equisetum</i>	<i>laevigatum</i>	Smooth scouring-rush	L	2	

Dry-Mesic Oak Woodland—FDs37

(0.5 ac)

Genus	Species	Common Name	Likelihood of Establish-ment	Conserva-tism Coefficient	Commonly Commercially Available
Canopy Trees & understory trees					
<i>Acer</i>	<i>rubrum</i>	Red maple	M	3	x
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Carya</i>	<i>cordiformis</i>	Bitternut hickory	M	6	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Pinus</i>	<i>strobus</i>	White pine	M	5	x
<i>Populus</i>	<i>grandidentata</i>	Big-toothed aspen	M	3	x
<i>Populus</i>	<i>tremuloides</i>	Quaking aspen	M	2	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>alba</i>	White oak	L	7	x
<i>Quercus</i>	<i>ellipsoidalis</i>	Northern pin oak	M	5	x
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak	M	5	x
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
Understory Trees					
<i>Acer</i>	<i>rubrum</i>	Red maple	M	3	x
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Carpinus</i>	<i>caroliniana</i>	Blue beech	M	6	x
<i>Carya</i>	<i>cordiformis</i>	Bitternut hickory	M	6	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>nigra</i>	Black ash	M	8	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	4	x
<i>Pinus</i>	<i>strobus</i>	White pine	M	5	x
<i>Populus</i>	<i>grandidentata</i>	Big-toothed aspen	M	3	x
<i>Populus</i>	<i>tremuloides</i>	Quaking aspen	M	2	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>alba</i>	White oak	L	7	x
<i>Quercus</i>	<i>ellipsoidalis</i>	Northern pin oak	M	5	x
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak	M	5	x
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Sorbus</i>	<i>americana</i>	American mountain-ash	M	7	x
<i>Tilia</i>	<i>americana</i>	Basswood	M	5	x
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
<i>Ulmus*</i>	<i>rubra*</i>	Slippery elm*	H	4	x
Shrubs					
<i>Amelanchier</i>	<i>interior</i>	Juneberry	M	7	x
<i>Amelanchier</i>	<i>laevis</i>	Allegheny serviceberry	M	6	x
<i>Cornus</i>	<i>alternifolia</i>	Pagoda dogwood	M	7	x
<i>Cornus</i>	<i>rugosa</i>	Round-leaved dogwood	M	7	x
<i>Cornus</i>	<i>racemosa</i>	Gray dogwood	M	2	x
<i>Corylus</i>	<i>americana</i>	American hazelnut	M	3	x
<i>Corylus</i>	<i>cornuta</i>	Beaked hazelnut	M	5	x
<i>Crataegus</i>	species	Hawthorn (multiple species)	M	2	x
<i>Diervilla</i>	<i>lonicera</i>	Bush honeysuckle	M	6	x
<i>Ilex</i>	<i>verticillata</i>	Winterberry	M	7	x
<i>Prunus</i>	<i>virginiana</i>	Chokecherry	M	3	x
<i>Ribes</i>	<i>cynosbati</i>	Prickly gooseberry	M	3	x

<i>Ribes</i>	<i>missouriense</i>	Missouri gooseberry	M	4	x
<i>Rosa</i>	<i>arkansana</i>	Prairie rose	M	5	x
<i>Rosa</i>	<i>blanda</i>	Smooth wild rose	M	7	x
<i>Sambucus</i>	<i>racemosa</i>	Red-berried Elder	M	5	x
<i>Symphoricarpos</i>	<i>alba</i>	Snowberry	M	6	x
<i>Viburnum</i>	<i>lentago</i>	Nannyberry	M	4	x
<i>Viburnum</i>	<i>rafinesquianum</i>	Downy arrow-wood	M	7	x
Vines					
<i>Celastrus</i>	<i>scandens</i>	Climbing bittersweet	M	3	x
<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	M	5	x
Forbs					
<i>Achillea</i>	<i>millefolium</i>	Yarrow	H	1	x
<i>Actaea</i>	<i>rubra</i>	Red baneberry	L	7	x
<i>Amphicarpaea</i>	<i>bracteata</i>	Hog-peanut	M	4	
<i>Anemone</i>	<i>quinquefolia</i>	Wood-anemone	L	6	x
<i>Anemone</i>	<i>virginiana</i>	Tall thimbleweed	M	5	x
<i>Apocynum</i>	<i>androsaemifolium</i>	Spreading dogbane	M	3	
<i>Aquilegia</i>	<i>canadensis</i>	Columbine	L	5	x
<i>Aralia</i>	<i>nudicaulis</i>	Wild sarsaparilla	L	4	x
<i>Aralia</i>	<i>racemosa</i>	American spikenard	L	7	x
<i>Arenaria</i>	<i>lateriflora</i>	Side-flowering sandwort	L	6	
<i>Arisaema</i>	<i>triphylum</i>	Jack-in-the-pulpit	M	4	x
<i>Asclepias</i>	<i>exaltata</i>	Poke milkweed	M	7	
<i>Aster</i>	<i>ciliolatus</i>	Lindley's aster	M	4	
<i>Aster</i>	<i>lateriflorus</i>	Side-flowering aster	M	3	
<i>Aster</i>	<i>macrophyllus</i>	Large-leaved aster	M	4	x
<i>Aster</i>	<i>oolentangiensis</i>	Sky-blue aster	M	5	x
<i>Aster</i>	<i>sagittifolius</i>	Tail-leaved aster	M	3	
<i>Caulophyllum</i>	<i>thalictroides</i>	Blue cohosh	L	8	x
<i>Circaea</i>	<i>lutetiana</i>	Canada enchanter's nightshade	H	2	
<i>Clintonia</i>	<i>borealis</i>	Bluebead lily	L	7	x
<i>Cryptotaenia</i>	<i>canadensis</i>	Honewort	H	3	
<i>Desmodium</i>	<i>glutinosum</i>	Pointed-leaved tick-trefoil	M	6	
<i>Dioscorea</i>	<i>villosa</i>	Wild yam	M	4	
<i>Fragaria</i>	<i>vesca</i>	Wood strawberry	M		x
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	M	2	x
<i>Galium</i>	<i>aparine</i>	Cleavers	H	1	
<i>Galium</i>	<i>boreale</i>	Northern bedstraw	M	5	
<i>Galium</i>	<i>concinnum</i>	Elegant bedstraw	M	5	
<i>Galium</i>	<i>triflorum</i>	Three-flowered bedstraw	M	4	
<i>Geranium</i>	<i>maculatum</i>	Wild geranium	M	4	x
<i>Geum</i>	<i>canadense</i>	White avens	H	2	
<i>Geum</i>	<i>triflorum</i>	Prairie smoke	L	7	x
<i>Helianthus</i>	<i>hirsutus</i>	Woodland sunflower	M	5	x
<i>Helianthus</i>	<i>strumosus</i>	Rough-leaf sunflower	M	4	x
<i>Hepatica</i>	<i>americana</i>	Round-lobed hepatica	L	7	x
<i>Heuchera</i>	<i>richardsonii</i>	Alum-root	L	7	x
<i>Lathyrus</i>	<i>venosus</i>	Veiny pea	M	6	
<i>Maianthemum</i>	<i>canadense</i>	Canada mayflower	M	5	x
<i>Maianthemum</i>	<i>racemosum</i>	Racemose false Solomon's-seal	M	5	x
<i>Maianthemum</i>	<i>stellatum</i>	Starry false Solomon's-seal	M	5	x
<i>Mitchella</i>	<i>repens</i>	Partridge-berry	L	6	
<i>Osmorhiza</i>	<i>claytonii</i>	Clayton's sweet cicely	H	3	x

<i>Osmorhiza</i>	<i>longistylis</i>	Anise-root	M	4	
<i>Phryma</i>	<i>leptostachya</i>	Lopseed	M	5	
<i>Physalis</i>	<i>heterophylla</i>	Clammy ground-cherry	M	3	
<i>Polygonatum</i>	<i>pubescens</i>	Hairy Solomon's-seal	L	6	
<i>Polygonatum</i>	<i>biflorum</i>	Giant Solomon's-seal	M	4	
<i>Pyrola</i>	<i>elliptica</i>	Common pyrola	L	6	
<i>Pyrola</i>	<i>secunda</i>	One-sided pyrola	L	7	
<i>Ranunculus</i>	<i>abortivus</i>	Kidney-leaf buttercup	H	1	
<i>Ranunculus</i>	<i>recurvatus</i>	Hooked crowfoot	M	5	
<i>Rubus</i>	<i>pubescens</i>	Dwarf raspberry	M	7	
<i>Sanguinaria</i>	<i>canadensis</i>	Bloodroot	L	6	x
<i>Sanicula</i>	<i>gregaria</i>	Gregarious black snakeroot	H	3	
<i>Sanicula</i>	<i>marilandica</i>	Mariland black snakeroot	M	5	x
<i>Smilax</i>	<i>lasionuera</i>	Carrion-flower	M	4	
<i>Solidago</i>	<i>flexicaulis</i>	Zig-zag goldenrod	M	6	x
<i>Solidago</i>	<i>hispida</i>	Hairy goldenrod	M	6	
<i>Solidago</i>	<i>uliginosa</i>	Bog goldenrod	L	8	
<i>Streptopus</i>	<i>lanceolatus</i>	Rosey twisted-stalk	L	7	
<i>Thalictrum</i>	<i>dasycarpum</i>	Tall meadow-rue	M	4	x
<i>Thalictrum</i>	<i>dioicum</i>	Early meadow-rue	M	5	x
<i>Thalictrum</i>	<i>thalictroides</i>	Rue-anemone	L	7	x
<i>Trientalis</i>	<i>borealis</i>	Starflower	L	7	
<i>Trillium</i>	<i>cernuum</i>	Nodding trillium	L	8	
<i>Trillium</i>	<i>grandiflorum</i>	Large-flowered trillium	L	6	x
<i>Uvularia</i>	<i>grandiflora</i>	Yellow bellwort	L	7	
<i>Uvularia</i>	<i>sessilifolia</i>	Pale bellwort	M	6	
<i>Veronicastrum</i>	<i>virginicum</i>	Culver's root	M	6	
<i>Viola</i>	species	Violet (multiple species)	M	5	x
<i>Zizia</i>	<i>aurea</i>	Golden alexanders	H	7	x
Grasses, Rushes and Sedges					
<i>Brachyelytrum</i>	<i>erectum</i>	Bearded shorthusk	M	7	
<i>Carex</i>	<i>blanda</i>	Charming sedge	M	3	
<i>Carex</i>	<i>deweyana</i>	Dewey's sedge	M	6	
<i>Carex</i>	<i>gracillima</i>	Graceful sedge	M	4	x
<i>Carex</i>	<i>peckii</i>	Peck's sedge	M	7	
<i>Carex</i>	<i>pedunculata</i>	Long-stalked sedge	M	7	x
<i>Carex</i>	<i>pennsylvanica</i>	Pennsylvania sedge	M	3	x
<i>Carex</i>	<i>tenera</i>	Marsh-straw sedge	M	4	
<i>Carex</i>	<i>radiata</i>	Stellate sedge	M	4	
<i>Elymus</i>	<i>hystrix</i>	Bottlebrush grass	M	6	x
<i>Festuca</i>	<i>subverticillata</i>	Nodding fescue	M	4	
<i>Oryzopsis</i>	<i>asperifolia</i>	Mountain rice-grass	M	6	
<i>Schizachne</i>	<i>purpurascens</i>	False melic grass	M	7	
Ferns and Fern Allies					
<i>Athyrium</i>	<i>filix-femina</i>	Lady-fern	M	4	x
<i>Dryopteris</i>	<i>intermedia</i>	Fancy wood fern	L	7	
<i>Equisetum</i>	<i>pratense</i>	Meadow horsetail	L	9	
<i>Matteuccia</i>	<i>struthiopteris</i>	Ostrich-fern	M	5	x
<i>Osmunda</i>	<i>claytoniana</i>	Interrupted fern	L	6	x
<i>Pteridium</i>	<i>aquilinum</i>	Bracken	M	2	x

Mixed Hardwoods (5.8 ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Canopy Trees (>10m)					
<i>Acer</i>	<i>rubrum</i>	Red maple	H		x
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Carya</i>	<i>cordiformis</i>	Bitternut hickory	M	6	x
<i>Juglans</i>	<i>nigra</i>	Black walnut	M		x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	5	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak	M	5	
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Tilia</i>	<i>americana</i>	Basswood	M	5	x
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
Understory Trees					
<i>Betula</i>	<i>papyrifera</i>	Paper-birch	M	3	x
<i>Carpinus</i>	<i>caroliniana</i>	Blue beech	M		x
<i>Celtis</i>	<i>occidentalis</i>	Hackberry	H	3	x
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green ash	H	2	x
<i>Ostrya</i>	<i>virginiana</i>	Ironwood	M	5	x
<i>Prunus</i>	<i>serotina</i>	Black cherry	M	4	x
<i>Quercus</i>	<i>rubra</i>	Northern red oak	M	5	x
<i>Tilia</i>	<i>americana</i>	Basswood	M	5	x
<i>Ulmus*</i>	<i>americana*</i>	American elm*	H	3	x
Shrubs					
<i>Cornus</i>	<i>racemosa</i>	Gray dogwood	M	2	x
<i>Corylus</i>	<i>americana</i>	American hazelnut	M	3	x
<i>Corylus</i>	<i>cornuta</i>	Beaked hazelnut	M	5	x
<i>Prunus</i>	<i>virginiana</i>	Chokecherry	M	3	x
<i>Ribes</i>	<i>cynosbati</i>	Prickly gooseberry	M	3	x
<i>Ribes</i>	<i>missouriense</i>	Missouri gooseberry	M	4	x
<i>Rosa</i>	<i>blanda</i>	Smooth wild rose	M		x
<i>Sambucus</i>	<i>racemosa</i>	Red-berried elder	H	5	x
<i>Symphoricarpos</i>	<i>alba</i>	Snowberry	M	6	x
Forbs					
<i>Apocynum</i>	<i>androsaemifolium</i>	Spreading dogbane	M	2	
<i>Aquilegia</i>	<i>canadensis</i>	Columbine	M	4	x
<i>Amphicarpea</i>	<i>bracteata</i>	Hog peanut			
<i>Aralia</i>	<i>nudicaulis</i>	Wild sarsaparilla	M	4	x
<i>Arisaema</i>	<i>triphillum</i>	Jack-in-the-pulpit	M	4	x
<i>Aster</i>	<i>sagittifolius</i>	Tail-leaved aster	M	3	
<i>Circaea</i>	<i>lutetiana</i>	Canada enchanter's nightshade	M	2	x
<i>Cryptotaenia</i>	<i>canadensis</i>	Honewort	M	3	
<i>Desmodium</i>	<i>glutinosum</i>	Pointed-leaved tick-trefoil	M	6	
<i>Dioscorea</i>	<i>villosa</i>	Wild yam	M	4	
<i>Fragaria</i>	<i>vesca</i>	Wood strawberry	M		x
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	M	2	x

<i>Galium</i>	<i>aparine</i>	Cleavers	M	1	x
<i>Galium</i>	<i>triflorum</i>	Three-flowered bedstraw	M	4	
<i>Geranium</i>	<i>maculatum</i>	Wild geranium	M	4	x
<i>Geum</i>	<i>canadense</i>	White avens	M	2	
<i>Hydrophyllum</i>	<i>virginianum</i>	Virginia waterleaf	M	3	x
<i>Maianthemum</i>	<i>canadense</i>	Canada mayflower	M	5	x
<i>Osmorhiza</i>	<i>claytonii</i>	Clayton's sweet cicely	M	3	x
<i>Polygonatum</i>	<i>biflorum</i>	Giant Solomon's-seal	M	4	
<i>Ranunculus</i>	<i>abortivus</i>	Kidney-leaf buttercup	M	1	
<i>Ranunculus</i>	<i>recurvatus</i>	Hooked crowfoot	M	5	
<i>Sanicula</i>	<i>gregaria</i>	Gregarious black snakeroot	M	3	
<i>Smilacina</i>	<i>racemosa</i>	false Solomon's-seal	M	5	x
<i>Thalictrum</i>	<i>Thalictroides</i>	Rue anemone	M	7	x
<i>Thalictrum</i>	<i>dioicum</i>	Early meadow-rue	M	5	x
<i>Uvularia</i>	<i>sessilifolia</i>	Pale bellwort	M	6	x
<i>Veronicastrum</i>	<i>virginicum</i>	Culver's root	M	6	x
<i>Viola</i>	<i>species</i>	Violet (multiple species)	M	5	x
Grasses, Rushes and Sedges					
<i>Andropogon</i>	<i>gerardii</i>	Big bluestem	M	4	x
<i>Bouteloua</i>	<i>curtipendula</i>	Side oats grama	H	6	x
<i>Carex</i>	<i>pennsylvanica</i>	Pennsylvania sedge	M	3	x
<i>Carex</i>	<i>radiata</i>	Stellate sedge	M	4	
<i>Carex</i>	<i>blanda</i>	Charming sedge	M	3	
<i>Elymus</i>	<i>canadensis</i>	Canada wild rye	H	4	x
<i>Elymus</i>	<i>hystrix</i>	Bottlebrush grass	M	6	x
<i>Festuca</i>	<i>subverticillata</i>	Nodding fescue	M	4	
<i>Panicum</i>	<i>virgatum</i>	Switch grass	H	4	x
<i>Schizachyrium</i>	<i>scoparium</i>	Little bluestem	M	4	x
<i>Sorghastrum</i>	<i>nutans</i>	Indian grass	M	5	x
Ferns and Fern Allies					
<i>Athyrium</i>	<i>filix-femina</i>	Lady-fern	M	4	x
<i>Osmunda</i>	<i>claytoniana</i>	Interrupted fern	M	7	x
<i>Pteridium</i>	<i>aquilinum</i>	Bracken	M	2	x

*Plant disease resistant varieties

Inland Freshwater Pond (0.7ac)

Genus	Species	Common Name	Likelihood of Establishment	Conservatism Coefficient	Commonly Commercially Available
Shrubs					
<i>Amorpha</i>	<i>fruticosa</i>	False indigo	M	6	x
<i>Salix</i>	<i>discolor</i>	Pussy willow*	M	3	x
<i>Salix</i>	<i>petiolaris</i>	Slender willow*	M	5	x
<i>Spiraea</i>	<i>alba</i>	Meadowsweet*	M	5	x
Forbs					
<i>Acorus</i>	<i>calamus</i>	Sweet flag	M	7	x
<i>Alisma</i>	<i>subcordatum</i>	Heart-leaved water-plantain	L	4	
<i>Alisma</i>	<i>triviale</i>	Ordinary water-plantain	L	4	x
<i>Agastache</i>	<i>foeniculum</i>	Blue giant-hyssop	M	4	x
<i>Asclepias</i>	<i>incarnata</i>	Swamp milkweed	H	4	x
<i>Aster</i>	<i>novae-angliae</i>	New England aster	H	3	x
<i>Aster</i>	<i>firmus</i>	Red-stemmed aster	M	4	x
<i>Aster</i>	<i>umbellatus</i>	Flat-topped aster	M	6	x
<i>Bidens</i>	<i>species</i>	Beggar-ticks (multiple species)	M	5	
<i>Campanula</i>	<i>aparinooides</i>	Marsh bellflower	M	5	
<i>Castilleja</i>	<i>coccinea</i>	Indian paintbrush	M	6	x
<i>Chelone</i>	<i>glabra</i>	White turtlehead	M	7	x
<i>Cicuta</i>	<i>maculata</i>	Spotted water-hemlock	L	5	
<i>Eupatorium</i>	<i>maculatum</i>	Spotted Joe-pye weed	M	4	x
<i>Eupatorium</i>	<i>perfoliatum</i>	Common boneset	M	4	x
<i>Eupatorium</i>	<i>purpureum</i>	Sweet Joe-pye weed	M	4	x
<i>Euthamia</i>	<i>graminifolia</i>	Grass-leaved goldenrod	M	4	
<i>Fragaria</i>	<i>virginiana</i>	Common strawberry	M	2	x
<i>Helenium</i>	<i>autumnale</i>	Autumn sneezeweed	M	4	x
<i>Helianthus</i>	<i>giganteus</i>	Giant sunflower	M	4	x
<i>Helianthus</i>	<i>grosseserratus</i>	Sawtooth sunflower	M	3	x
<i>Hypericum</i>	<i>majus</i>	Large St. John's-wort	M	5	x
<i>Lilium</i>	<i>michiganense</i>	Michigan lily	M	7	x
<i>Liatris</i>	<i>pycnostachya</i>	Gayfeather	M	7	x
<i>Lilium</i>	<i>loeselii</i>	Loesel's twayblade	M	6	
<i>Liparis</i>	<i>siphilitica</i>	Great lobelia	M	5	x
<i>Iris</i>	<i>versicolor</i>	Northern blue Flag	M	4	x
<i>Lycopus</i>	<i>americanus</i>	Cut-leaved bugleweed	M	4	
<i>Lycopus</i>	<i>uniflorus</i>	Northern bugleweed	M	5	
<i>Lysimachia</i>	<i>ciliata</i>	Fringed loosestrife	M	5	x
<i>Lysimachia</i>	<i>terrestris</i>	Yellow loosestrife	M	7	x
<i>Lysimachia</i>	<i>thyrsiflora</i>	Tufted loosestrife	M	6	
<i>Mimulus</i>	<i>ringens</i>	Purple monkey-flower	M	5	x
<i>Nuphar</i>	<i>luteum</i>	Yellow pond-lily	L	9	x
<i>Nymphaea</i>	<i>odorata</i>	Waterlily	L	6	x
<i>Physostegia</i>	<i>virginiana</i>	Obedient plant	M	6	x
<i>Polygonum</i>	<i>amphibium</i>	Water smartweed	M	4	
<i>Polygonum</i>	<i>lapathifolium</i>	Nodding smartweed	M	2	

<i>Polygonum</i>	<i>pensylvanicum</i>	Pennsylvania smartweed	M	1	
<i>Polygonum</i>	<i>punctatum</i>	Dotted smartweed	M	5	
<i>Potentilla</i>	<i>norvegica</i>	Rough cinquefoil	M	1	
<i>Ranunculus</i>	<i>hispidus</i>	Hispid buttercup	M	6	
<i>Pycnanthemum</i>	<i>virginianum</i>	Virginia mountain-mint	M	6	x
<i>Ranunculus</i>	<i>pensylvanicus</i>	Bristly buttercup	M	5	
<i>Rubus</i>	<i>pubescens</i>	Dwarf raspberry	M	6	
<i>Ratibida</i>	<i>pinnata</i>	Gray-headed coneflower	M	4	x
<i>Rudbeckia</i>	<i>laciniata</i>	Goldenglow	M	4	x
<i>Sagittaria</i>	<i>latifolia</i>	Broad-leaved arrowhead	M	3	x
<i>Sagittaria</i>	<i>rigida</i>	Sessile-fruited arrowhead	M	7	
<i>Scutellaria</i>	<i>galericulata</i>	Marsh skullcap	M	5	
<i>Scutellaria</i>	<i>lateriflora</i>	Mad-dog skullcap	M	5	
<i>Sium</i>	<i>suave</i>	Water-parsnip	L	5	
<i>Solidago</i>	<i>riddellii</i>	Riddell's goldenrod	M	7	x
<i>Sparganium</i>	<i>androcladum</i>	Branching bur reed	M	8	
<i>Sparganium</i>	<i>eurycarpum</i>	Giant bur-reed	M	5	x
<i>Sparganium</i>	<i>emersum</i>	Unbranched bur reed	M	7	
<i>Triadenum</i>	<i>fraseri</i>	Marsh St. John's-wort	M	6	
<i>Verbena</i>	<i>hastata</i>	Blue vervain	H	6	x
Grasses, Rushes and Sedges					
<i>Andropogon</i>	<i>gerardii</i>	Big bluestem	M	4	x
<i>Calamagrostis</i>	<i>canadensis</i>	Bluejoint	M	4	x
<i>Carex</i>	<i>comosa</i>	Bristly sedge	M	5	x
<i>Carex</i>	<i>scoparia</i>	Pointed-broom sedge	M	4	
<i>Eleocharis</i>	<i>acicularis</i>	Least spikerush	M	4	
<i>Elymus</i>	<i>canadensis</i>	Canada wild rye	H	4	x
<i>Elymus</i>	<i>riparius</i>	Riverbank rye	H	6	x
<i>Elymus</i>	<i>virginicus</i>	Virginia wild rye	H	6	x
<i>Glyceria</i>	<i>grandis</i>	Tall manna-grass	M	6	x
<i>Juncus</i>	<i>effusus</i>	Soft rush	M	4	x
<i>Juncus</i>	<i>nodosus</i>	Knotty rush	M	5	
<i>Leersia</i>	<i>oryzoides</i>	Rice cut grass	M	3	
<i>Scirpus</i>	<i>atrovirens</i>	Dark green bulrush	M	4	x
<i>Scirpus</i>	<i>cyperinus</i>	Wool-grass	M	3	x
<i>Schoenoplectrus</i>	<i>acutus</i>	Hard-stemmed bulrush	M	6	x
<i>Schoenoplectrus</i>	<i>fluviatilis</i>	River bulrush	M	4	x
<i>Schoenoplectrus</i>	<i>validus</i>	Softstem bulrush	M	4	x
<i>Sorghastrum</i>	<i>nutans</i>	Indian grass	M	5	x
<i>Spartina</i>	<i>pectinata</i>	Prairie cord-grass	M	5	x

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