

Native Plants for Stormwater Landscaping, Shoreline Stabilization and Restoration

Scientific Name	Common Name	Qty	Sun			Bloom period						Height	Comments	
			dry	mesic	wet	dry	mesic	May	June	July	Aug			Sept
<i>Allium stellatum</i>	Prairie onion		X	X		X	X						1-2'	Edges of rain garden, gravel/sand, good mass plantings, attracts butterflies
<i>Aquilegia canadensis</i>	Columbine		X	X		X	X						1-3'	self-seeds, good for restoration sites fibrous roots, vertical caudex plant
<i>Asarum canadense</i>	Wild ginger												6"	Rhizomes, excellent ground cover part shade to shady areas
<i>Asclepias incarnata</i>	Swamp Milkweed				X								3-4'	Fragrant showy Birds, butterfly, muskrat, insects
<i>Asclepias tuberosa</i>	Butterfly Weed		X	X		X							1.5-2'	taproot butterflies, birds insects
<i>Aster azureus</i>	Sky blue aster		X			X							2-3'	rhizomes grow from taproot, vivid blue color end of season ruffed grouse
<i>Aster laevis</i>	Smooth Blue aster		X	X									2-3'	10" root depth. Slow spread rate rhizomes
<i>Aster lateriflorus</i>	Calico aster					X							1-2'	mesic forest openings rocky gravel slopes
<i>Anemone canadensis</i>	Canada anemone		X	X		X							1-2'	rhizomes mass plantings
<i>Chione glabra</i>	White turtlehead		X	X		X							1-3"	deep fibrous roots, use in rain garden, lake edge. Attracts butterflies
<i>Coreopsis palmata</i>	Stiff tickseed		X	X		X							2-6'	rhizomes, plant in dry sunny sites, good slope stabilizer, attracts
<i>Epilobium angustifolium</i>	fireweed		X	X		X							2-6'	coarse running rhizome like roots forms large mass hummingbirds,
<i>Eupatorium maculatum</i>	Joe pye weed				X	X							2-6'	fibrous roots, pollinators, swamp sparrow grows in wet sandy soil
<i>Geranium maculatum</i>	Spotted geranium				X								1-2'	roots, stout branched rhizome, high wildlife & pollinator value
<i>Geum triflorum</i>	Prairie Smoke		X	X		X							1'	thick scaly rhizomes, plant attractive all season game & songbirds
<i>Helenium autumnale</i>	Sneezeweed		X	X		X							2-4'	fibrous roots, stabilizing, tolerates flooding; showy flower
<i>Helianthus strumosus</i>	Pale leaf sunflower		X	X		X							2-4'	rhizomes, attracts bees, butterflies, and birds
<i>Helopsis helianthoides</i>	Oxeye Sunflower		X			X							2-4'	Taproot. Attracts butterflies bees food & cover for goldfinch
<i>Iris versicolor</i>	Blue flag iris		X		X								2-3'	Bark stabilizer, Fish, frogs, birds, butterflies, muskrat
<i>Liatris aspera</i>	Rough Blazing Star		X	X		X							1.5-4'	Corn/rhizomes attracts birds butterflies
<i>Liatris ligulistylis</i>	Meadow Blazing Star		X	X		X							1-3'	thickened corn-like roots favorite liatris species of butterflies
<i>Liatris pycnostachya</i>	Great blazing star		X	X		X							3-4'	thickened corn-like roots, wet sandy soil, hummingbirds
<i>Lupinus perennis</i>	Wild Lupine		X	X		X							1-2'	nitrogen fixing, long-lived, dry sandy soil. Pollinator honey bees, bumble
<i>Minulus ringens</i>	Monkey flower				X								1-3'	taproot stoloniferous, attract pollinator
<i>Monarda fistulosa</i>	Wild Bergamot		X	X		X							2-3.5'	aromatic, great on sunny slopes butterflies bees hummingbirds
<i>Potentilla tridentata</i>	wineleaf cinquefoil			X		X							1"	ground cover can form 3-8" mat acidic well drained acidic soil rocky,
<i>Pulsatilla patens</i>	Pasque flower			X		X							6"	early spring flower, soil stabilizer, plant next to larger showy plants
<i>Phlox divaricata</i>	Woodland Phlox			X		X							1'	14" root depth
<i>Phlox pilosa</i>	Prairie phlox				X								2'	taproot, self-sows, dead head to stimulate flowering, good soil stabilizer
<i>Rudbeckia hirta</i>	Black-eyed Susan		X	X		X							1-3'	self seeds taproot or cluster of fibrous roots grows on sand to heavy clay
<i>Rudbeckia laciniata</i>	Wild Golden Glow			X		X							3-8'	robust self-sowing competes well with non native invasives. Rhizomes

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Scientific Name	Common Name	Qty	Full Sun		P sun		Bloom period					Height	Comments
			dry	wet	dry	wet	May	June	July	Aug	Sept		
<i>Smilacina racemosa</i>	False Solomon Seal		X	X	X	X						2-3'	rhizomes, ideal soil moist, rich, & acidic part shade- shade, conical
<i>Solidago flexicaulis</i>	zig zag goldenrod			X	X	X						2-4'	long rhizomes, good for shady slopes and buffers, woodland plant restorations. Goldfinch, junco, ruffed, sharp tailed, and spruce grouse
<i>Solidago speciosa</i>	Showy goldenrod		X		X	X						2-5'	rhizomes, dry well drained soils, clusters of yellow flowers that form dense pyramidal shape, leafy reddish stems attracts birds pollinators
<i>Thalictrum dioicum</i>	Early Meadow Rue			X	X	X						1-2'	fibrous roots, bees and butterflies good ground cover for shaded to p.sh
<i>Veronia fasciculata</i>	Ironweed		X	X	X	X						3-6'	E C buffers, slopes, shorelines forms clumps Thick stoloniferous root
<i>Zizia aurea</i>	Golden Alexander		X	X	X	X						1-2'	Cluster of thickened roots Butterflies
<b>GRASSES &amp; SEDGES</b>													
<i>Bromus kalmii</i>	Kalm's brome		X	X	X	X						1-3'	bunch grass, grows in sand, clay, loam, fibrous roots
<i>Calamagrostis canadensis</i>	Blue joint grass		X	X	X	X						3-6'	Cool season grass E.C. Tawny plumed fall flowers forms thick stand good bank stabilizer Creeping rhizomes
<i>Carex radiata</i>	Eastern star/ aka wood		X	X	X	X						12"	fine leafed sedge
<i>Carex Sprengelii</i>	Sprengel's sedge		X	X	X	X						18"	Short creeping rhizomes, cool season -excellent woodland plant use for erosion control and soil stabilization part sun to shade attracts seed
<i>Carex stricta</i>	Tussock sedge		X	X	X	X						2'	Stabilization, Deep vertical and lateral roots -- shoreline edge
<i>Elymus virginicus</i>	Virginia Wild Rye		X	X	X	X						3'	great for bank stabilization, slope buffers, & swales, attractive landscape plant
<i>Glyceria grandis</i>	Tall manna grass		X	X	X	X						3-5'	Erosion control & shoreline stabilization, clumps, spreads by rhizomes, good habitat
<i>Schizachyrium scoparium</i>	Little bluestem		X	X	X	X						1-3'	grass copper color in fall clump erect, good on slopes
<i>Sorghastrum nutans</i>	Indian grass		X	X	X	X						4-8"	short rhizomes and deep fibrous roots make it excellent soil stabilizer for slopes, swales, and buffers Cover and seeds for song and game birds.
<i>Spartina pectinata</i>	Prairie Cordgrass		X	X	X	X						3-6'	Erosion Control & shoreline stabilization gold fall color elegant arching
<i>Sporobolus heterolepis</i>	Prairie Dropseed		X	X	X	X						2-4'	long deep fibrous roots Graceful fountain like fine textured low clumps
<b>Shrubs</b>													
<i>Amorpha fruticosa</i>	False Indigo		X	X	X	X						10'	Fragrant foliage 24" root depth nitrogen fixing
<i>Amelanchier alnifolia</i>	Saskatoon serviceberry		X	X	X	X						12'	lakeshores, margins of bur oak, aspen woods dry-moist soil sand, loam, or fruit consumed by cedar waxwings, game birds, browsers
<i>Aronia melanocarpa</i>	Black Chokecherry		X	X	X	X						3-6'	mass plantings green bronze arrow shaped leaf stoloniferous roots
<i>Diervilla lonicera</i>	Bush honeysuckle		X	X	X	X						1-3'	common in forest understory moist to dry soamy or sandy soils
<i>Comus rugosa</i>	Round leaf dogwood		X	X	X	X						5-12'	bank stabilization fibrous shallow roots, stoloniferous
<i>Comus sericea</i>	Red osier dogwood		X	X	X	X						6-12'	bank stabilization fibrous shallow roots, stoloniferous
<i>Symphoricarpos albus</i>	Common snowberry		X	X	X	X						3-4'	mound form grows in drifts or colonies. Fibrous shallow roots that sucker. Grows in any soil but prefers mesic to dry clays food for hummingbirds
<i>Vaccinium angustifolium</i>	Low bush blueberry		X	X	X	X						1-2'	med lifespan (20 years) low pH Root depth 16" rocky or sand soil
<i>Salix amygdaloides</i>	Peachleaf willow		X	X	X	X						6-20'	rhizomes, shoreline stabilizer, plant into rip rap near water level
<i>Salix exigua</i>	Sandbar willow		X	X	X	X						6-20'	rhizomes, shoreline stabilizer, plant into rip rap near water level

Scientific Name <i>FORBS/FLOWERS</i>	Common Name	Install Date:	Location:	Landowner:										Height	Comments	
				Qty	Full Sun	P sun	May	June	July	Aug	Sept	Oct				
<i>Adiantum pedatum</i>	Maidenhair fern													1-2'	slow growing, spreading rhizome, go dormant if too dry	
<i>Agastache foeniculum</i>	Anise hyssop			X										2-4'	self sows butterflies and bees, fibrous shallow roots,	
<i>Aquilegia canadensis</i>	Columbine			X	X									1-3'	Self sows, hummingbirds & pollinators	
<i>Aster macrophyllus</i>	Bigleaf aster			X	X									8-18"	Rhizomes, cover & nesting habitat for songbirds of forest floor	
<i>Athyrium filix-femina</i>	Lady fern			X	X									2'	long lived, rhizomatous 12" deep roots	
<i>Anemone canadensis</i>	Canada anemone			X	X									1-2'	rhizomes mass plantings	
<i>Aster macrophyllus</i>	Bigleaf aster			X	X									8-18"	Rhizomes, cover & nesting habitat for songbirds of forest floor	
<i>Asarum canadense</i>	Wild ginger													6"	Rhizomes, excellent ground cover part shade to shady areas	
<i>Geranium maculatum</i>	Spotted geranium			X										1-2'	roots, stout branched rhizome, high wildlife & pollinator value	
<i>Hepatica americana</i>	Round lobed hepatica													2-4'	Fibrous root system, easy to grow, ants collect and distribute seeds	
<i>Helioopsis helianthoides</i>	Oxeye Sunflower			X										2-4'	Taproot. Attracts butterflies bees food & cover for goldfinch	
<i>Liatris ligulistylis</i>	Meadow Blazing Star			X	X									1-3'	thickened corn-like roots favorite liatris species of butterflies	
<i>Monarda fistulosa</i>	Wild Bergamot			X	X									2-3.5	aromatic, great on sunny slopes butterflies bees hummingbirds	
<i>Osmunda regalis</i>	Royal Fern			X	X									2-4'	rhizomes, =wet soils, showy, full to part shade	
<i>Phlox divaricata</i>	Woodland phlox													8-18"	root depth 14", fragrant, acidic moist woodlands attract butterflies,	
<i>Pulsatilla patens</i>	Pasque flower													6"	early spring flower, soil stabilizer, plant next to larger showy plants	
<i>Ratibida pinnata</i>	Yellow Coneflower			X	X									3-5'	fibrous-rooted from stout woody rhizome tolerates most soils	
<i>Smilacina racemosa</i>	False Solomon Seal			X	X									2-3'	rhizomes, ideal soil moist, rich, & acidic part shade- shade, conical	
<i>Solidago flexicaulis</i>	Zig Zag goldenrod													2-4'	long rhizomes, good for shady slopes and buffers, woodland plant restorations, Goldfinch, junco, ruffed, sharp tailed, and spruce grouse	
<b>Grasses &amp; Sedges</b>																
<i>Carex pensylvanica</i>	Common Oak sedge													1-3'	rhizomatous fibrous roots, protect overland erosion	
<i>Carex radicata</i>	Eastern star sedge			X										12"	fine leafed sedge	
<i>Carex Sprengelii</i>	Sprengel's sedge													18"	Short creeping rhizomes, cool season -excellent woodland plant use for erosion control and soil stabilization part sun to shade attracts seed	
<i>Carex scoparia</i>	Pointed broom sedge			X	X									2'	Stabilization, Deep vertical and lateral roots -- shoreline edge	
<i>Elymus villosus</i>	Silky Wild Rye			X	X									2-4'	Cool season grass, interesting seed head 30" root depth	
<i>Koeleria cristata</i>	June grass			X	X									1.5'	Cool season grass, short bunch grass, 20" root depth	

Native Plants for Stormwater Landscaping, Shoreline Stabilization, and Restoration  
 Part shade - shade

Grant:	Install Date:	Location:		Landowner:		Bloom period												Height	Comments
		Qty	Full Sun	P sun	dry	wet	mesic	dry	mesic	dry	mesic	May	June	July	Aug	Sept	Oct		
Scientific Name	Common Name																		
<b>Shrubs</b>																			
<i>Amelanchier interior</i>	Inland juneberry		X															36'	large shrub may be rhizomatous, sandy or sandy loam soils, dry to moist, attracts pollinators
<i>Aronia melanocarpa</i>	Black Chokeberry		X	X														3-6'	fruit consumed by cedar waxwings, game birds, browsers
<i>Corylus cornuta</i>	Beaked hazel																		
<i>Aronia melanocarpa</i>	Black Chokeberry		X	X														3-6'	fruit consumed by cedar waxwings, game birds, browsers
<i>Cornus alternifolia</i>	Pagoda dogwood		X	X														12-25'	common in forest understory moist to dry soamy or sandy soils
<i>Diervilla lonicera</i>	Bush honeysuckle		X															1-3'	mass plantings green bronze arrow shaped leaf stoloniferous roots attracts butterflies. Eastern bluebird, finch junco. browse for deer, moose.
<i>Dirca palustris</i>	Leatherwood											X	X					3-6'	tree-like in appearance, shade to deep shade moist to dry loam or sandy
<b>Trees</b>																			
<i>Acer saccharum</i>	Sugar maple																	80-90'	late successional species, moist well drained loamy soil or sandy soil over clay layer
<i>Acer rubrum</i>	Red maple		X															80-90'	Fast growing short-lived, flowers early in spring red flowers
<i>Picea glauca</i>	White spruce		X	X														40-80'	30" deep roots, long lived; 300+ yrs, Provide cover, food and habitat
<i>Pinus strobus</i>	White pine		X	X														80-100'	40" deep roots, very long lived 400+ yrs Provide cover, food and habitat
<i>Betula alleghaniensis</i>	Yellow birch		X	X														50-90'	30" deep roots, young twigs wintergreen aroma, long lived, 300+ yrs
<i>Thuja occidentalis</i>	Northern white cedar																	40-50'	30" deep roots, very tolerant of deep shade, seeds germinate well on