Bioretention and Organic Filters

Latin Name	Common Name	Submerged & Emergent (water depth in	Pond Edge & Permanent Water	Over sand	Lower slopes & bioretention base	Upper slopes	Height (feet)	Spacing (feet)	Seasonal Interest - Color and Months	J	F	M	A	M	J	J	A	S	O	N	D	Sun	Pt Sun	Pt Shade	Shade	Dry	Medium	Wet	Birds	Butterflies	Fall Color	Winter interest	Flood frequency tolerance	Flood height tolerance	Flood duration tolerance (days)	Salt tolerance	Aggressiveness	Silt tolerance
Grasses/Sedges																																						
Andropogon gerardii	Big bluestem			x	x	x	4-6	2	plum	x	x							x	x	x	x	x				x	x		x		x	x	M	12	2		M	
Bouteloua curtipendula	Sideoats grama			x		x	1-2	1	tan							x	x	x	x	x		x	x			x	x		x			x	L				L	
Carex praegracilis*	Tollway sedge		x		x	x	1-2	1.5	tan				x	x	x							x	x			x	x	x	x				H	12	2	H	H	H
Carex grayii	Bur sedge		x		x		1-2	1.5	tan				x	x	x							x	x	x	x		x	x	x				H	24	3		L	
Carex shortiana	Short's sedge		x		x	x	2	1.5	bluish				x	x	x							x	x	x		x	x	x	x			x	M	24	3		L	
Carex vulpinoidea	Fox sedge		x		x		2-3	1.5	tan					x	x	x						x	x	x			x	x				x	H	24	3	L	L	
Chasmanthium latifolium	River oats			x	x	x	2-4	1.5	green						x	x	x	x	x	x			x	x	x	x	x		x		x	x	M	12	1		H	
Schizachyrium scoparium	Little bluestem			x		x	2-3	1.5	bronze	x	x						x	x	x	x	x	x				x	x		x		x	x	L			M	L	L
Sporobolus heterolepis	Prairie dropseed				x	x	2-3	1.5	tan								x	x	x	x	x	x				x	x		x			x	L				L	
Forbs																																						
Amsonia illustris	Shining bluestar		x	x	x		2-3	3	lt. blue				x	x								x	x	x			x	x		x	x		H	36	5		L	H
Aster novae-angliae	New England aster		x		x		3-4	2	violet								x	x				x	x				x	x		x	x		M	24	3	L	H	
Chelone obliqua	Rose turtlehead		x		x		3-4	2	se/purple								x	x	x			x	x	x	x		x	x					M	12	1		M	
Coreopsis lanceolata	Lanceleaf coreopsis			x		x	1-2	1.5	yellow					x	x							x	x			x	x			x			L				M	
Echinacea pallida	Pale purple coneflower					x	2-3	1.5	violet						x	x						x	x			x	x		x				L				L	
Echinacea purpurea	Purple coneflower					x	2-3	1.5	violet						x	x							x	x		x	x		x	x		x	L				L	
Eryngium yuccifolium	Rattlesnake master						2-3	1.5	green						x	x	x	x				x				x	x			x			M	12	2	M	L	
Eupatorium coelestinum	Mist flower; wild ageratum		x	x	x		1-2	1.5	avender							x	x	x	x			x	x				x	x		x			H	12	3		M	H
Hibiscus lasiocarpos	Rose mallow		x		x		3-5	2.5	hite/pink								x	x	x	x		x	x				x	x	x		x	x	H	36	5		M	H
Iris virginica	Southern blueflag iris		x		x		2-3	2	blue							x	x					x	x					x	x		x	H	36	4		M	M
Pycnanthemum tenuifolium	Slender Mountain Mint			x			2-3	1.5	white							x	x	x				x	x			x	x			x			L				H	
Ratibida pinnata	Yellow/Grey coneflower					x	3-5	1.5	yellow						x	x	x					x	x			x	x		x	x		x	M	12	1	M	H	L
Rudbeckia fulgida	Orange coneflower				x		2	2	yellow						x	x	x	x				x	x			x	x			x		x	L				M	
Rudbeckia hirta	Black-eyed Susan						2-3	1.5	yellow						x	x	x	x				x				x	x			x			L				M	
Solidago rugosa	Rough-leaved goldenrod				x	x	2-3	1.5	yellow								x	x				x	x	x	x	x	x			x		x	L			M	H	L
Solidago speciosa	Showy goldenrod				x	x	2-3	1.5	yellow								x	x				x	x	x		x	x			x		x	L			M	H	L
Verbesina helianthoides	Yellow wingstem						2-3	1.5	yellow						x							x	x	x		x	x		x	x			L				M	
Zizia aurea	Golden alexander					x	1-3	1.5	yellow					x	x							x	x	x		x	x			x			L			M	H	
Trees/Shrubs																																						
Carpinus caroliniana	Musclewood				x	x	15-20	20	yellow	x	x	x							x	x	x	x	x	x		x	x				x	x	M	6	1		L	
Cercis canadensis	Redbud			x	x	x	10-20	15	pink			x	x									x	x	x		x	x						L			L	M	L
Hamamelus virginiana	Eastern witchazel		x		x	x	10-15	15	yellow										x	x	x		x	x	x	x	x				x	x	L			L	L	
Quercus alba	White oak				x	x	40-60	30	green			x	x						x	x		x	x	x	x	x	x		x	x	x	x	L			H	L	

Requirements

Local Ecotype Rule: Plants of Missouri or Southern Illinois ecotype are required.
Must use a minimum of 5 grass/sedge species and 8 forb species for each BMP.
Each species must consist of between 5% - 15% of the total plant count for each BMP.
Refer to Planting, Water, and Mulch Requirements for Stormwater BMP's for plant sizes and irrigation requirements
Biodegradable erosion blanket must be used on slopes greater than 10%.
Erosion blankets must be coarse to allow varying leaf sizes (examples include Geojute, Curlex #1 and NorthAmerican Green S75 single net straw blanket, or equivelant)
*Experimental for practice and/or limited availability in commercial trade