

Stream Bank					Year 1	Year 1	Year 2	Year 2	Year 3
SCIENTIFIC NAME	C	WETNESS	PHYSIOGNOMY	COMMON NAME	Ozs/acre	Plugs/acre	Ozs/acre	Plugs/acre	Ozs/acre
<i>Amorpha fruticosa*</i>	6	FACW+	Nt P-Shrub	INDIGO BUSH		10			
<i>Andropogon scoparius</i>	5	FACU-	Nt P-Grass	LITTLE BLUESTEM	20.00	50	10.00		3.30
<i>Aster laevis</i>	9	UPL	Nt P-Forb	SMOOTH BLUE ASTER	2.00	50	1.00		0.33
<i>Aster novae-angliae</i>	4	FACW	Nt P-Forb	NEW ENGLAND ASTER	3.00	50	1.50		0.50
<i>Carex annectans xanthocarpa</i>	7	FAC	Nt P-Sedge	YELLOW FOX SEDGE	2.00		1.00		0.33
<i>Carex granularis</i>	4	FACW+	Nt P-Sedge	MEADOW SEDGE		100			
<i>Carex scoparia</i>	7	FACW	Nt P-Sedge	LANCE FRUITED OVAL SEDGE	2.00		1.00		0.33
<i>Carex vulpinoidea*</i>	2	OBL	Nt P-Sedge	FOX SEDGE	16.00		8.00		2.64
<i>Carya ovata</i>	5	FACU	Nt Tree	Shag-Bark Hickory		1			
<i>Cassia hebecarpa</i>	9	FACW	Nt A-Forb	WILD SENNA	16.00		8.00		2.64
<i>Celastrus scandens</i>	4	FACU	Nt Vine	American Bittersweet				10	
<i>Celtis occidentalis</i>	3	FAC	Nt Tree	Common Hackberry				1	
<i>Cephalanthis occidentalis*</i>	5	OBL	Nt Shrub	Button bush		10			
<i>Coreopsis tripteris</i>	5	FAC	Nt A-Forb	TALL COREOPSIS	1.00	50	0.50		0.17
<i>Cornus obliqua*</i>	6	FACW	Nt Shrub	Blue-fruited Dogwood		5			
Cover Crop					300.00				
<i>Crataegus mollis</i>	2	FAC	Nt Tree	Downy Hawthorn		10			
<i>Echinacea purpurea</i>	3	UPL	Nt A-Forb	PURPLE CONEFLOWER	30.00		15.00		4.95
<i>Elymus canadensis</i>	4	FAC-	Nt P-Grass	CANADA WILD RYE	80.00		40.00		
<i>Elymus virginicus</i>	4	FACW-	Nt P-Grass	VIRGINIA WILD RYE	100.00		50.00		
<i>Eupatorium perfoliatum*</i>	4	OBL	Nt P-Forb	COMMON BONESET	2.00	50	1.00		0.33
<i>Helenium autumnale</i>	5	FACW+	Nt P-Forb	SNEEZEWEED	3.00	50	1.50		0.50
<i>Helianthus grosseserratus</i>	5	FACW+	Nt P-Forb	SAWTOOTH SUNFLOWER	1.00		0.50		0.17

<i>Heliopsis helianthoides</i>	2	FACW-	Nt P-Forb	FALSE SUNFLOWER	20.00		10.00		3.30
<i>Malus ioensis</i>	3	UPL	Nt Tree	Iowa Crab Apple				5	
<i>Monarda fistulosa</i>	4	FACU	Nt P-Forb	BERGAMOT	2.00	50	1.00		0.33
<i>Panicum virgatum</i>	5	FAC+	Nt P-Grass	SWITCH GRASS			10.00		3.30
<i>Penstemon digitalis</i>	4	FAC-	Nt P-Forb	FOXGLOVE BEARDTONGUE	5.00		2.50		0.83
<i>Physocarpus opulifolius</i>	8	FACW	Nt Shrub	Ninebark		5			
<i>Prunus americana</i>	5	UPL	Nt Shrub	American Plum				3	
<i>Ptelea trifoliata</i>	7	FACU	Nt Shrub	Downy Wafer Ash		5			
<i>Quercus alba</i>	5	FACU	Nt Tree	Northern White Oak		10			
<i>Quercus bicolor*</i>	6	FACW	Nt Tree	Swamp White Oak		5			
<i>Quercus palustris</i>	8	FACW	Nt Tree	PIN OAK		5			
<i>Quercus rubra</i>	7	FACU	Nt Tree	Red Oak		2			
<i>Ratibida pinnata</i>	4	UPL	Nt P-Forb	YELLOW CONEFLOWER	20.00		10.00		3.30
<i>Rudbeckia hirta</i>	1	FACU	Nt A-Forb	BLACK EYED SUSAN	20.00		10.00		3.30
<i>Rudbeckia laciniata</i>	5	FACW+	Nt P-Forb	WILD GOLDEN GLOW	2.00		1.00		0.33
<i>Rudbeckia subtomentosa</i>	9	FACU+	Nt P-Forb	SWEET BLACK-EYED SUSAN	3.00		1.50		0.50
<i>Salix nigra*</i>	4	OBL	Nt Tree	Black Willow		1			
<i>Spartina pectinata</i>	4	FACW+	Nt P-Grass	PRAIRIE CORD GRASS	5.00	50	2.50		0.83
<i>Spiraea tomentosa rosea*</i>	9	FACW	Nt Shrub	STEEPLE BUSH		5			
<i>Vaccinium angustifolium</i>	5	FACU	Nt Shrub	Late Lowbush Blueberry				10	
<i>Verbena hastata</i>	4	FACW+	Nt P-Forb	BLUE VERVAIN	5.00	25	2.50		0.83
<i>Viburnum acerifolium**</i>	9	UPL	Nt Shrub	Maple-Leaf Arrow-Wood*		15			
<i>Viburnum rafinesquianum</i>	5	UPL	Nt Shrub	Downy Arrowwood		10			
<i>Zizia aurea</i>	7	FAC+	Nt P-Forb	GOLDEN ALEXANDERS	5.00	50	2.50		0.83
				Total	665.00	674.00	192.50	29.00	33.83
*Place near toe of stream bank									
**Place in stream bank tree protection areas									

Oak Savanna Shade					Year 1	Year 1	Year 2	Year 2	Year 3
SCIENTIFIC NAME	C	WETNESS	PHYSIOGNOMY	COMMON NAME	Ozs/acre	Plugs/acre	Ozs/acre	Plugs/acre	Ozs/acre
<i>Allium canadense</i>	2	FACU	Nt P-Forb	Meadow Garlic	5.00				
<i>Andropogon scoparius</i>	5	FACU-	Nt P-Grass	LITTLE BLUESTEM GRASS	20.00				
<i>Anemone canadensis</i>	4	FACW	Nt P-Forb	Round-Leaf Thimbleweed	2.00				
<i>Anemone cylindrica</i>	6	UPL	Nt P-Forb	THIMBLEWEED		250			
<i>Anemonella tahlictriodes</i>	7	UPL	Nt P-Forb	RUE ANEMONE				100	
<i>Aquilegia canadensis</i>	6	FAC-	Nt P-Forb	WILD COLUMBINE				100	
<i>Asarum canadense</i>	7	FACU	Nt P-Forb	Canadian Wild Ginger		200			
<i>Asclepias tuberosa</i>	7	UPL	Nt P-Forb	BUTTERFLY WEED	2.00	250	1.00		0.50
<i>Aster macrophyllus</i>	8	FACU	Nt P-Forb	Large-Leaf Wood-Aster	0.50				
<i>Aster prenanthoides</i>	10	FAC	Nt P-Forb	CROKED-STEMMED ASTER	2.00		1.00		0.50
<i>Aster sericeus</i>	10	UPL	Nt P-Forb	Silky Aster	0.50				
<i>Avena sativa</i>				OATS	300.00				
<i>Blephilia hirsuta</i>	8	FACU-	Nt P-Forb	HAIRY WOOD MINT	2.00		1.00		0.50
<i>Bromus kalmii</i>	10	FAC	Nt P-Grass	PRAIRIE BROME	50.00				
<i>Campanula americana</i>	3	FAC	Nt P-Forb	TALL BELLFLOWER				250	
<i>Campanula rotundifolia</i>	10	UPL	Nt P-Forb	HAREBELL				250	
<i>Carex cephalophora</i>	3	FACU	Nt P-Sedge	SHORT-HEADED BRACTED SEDGE		500			
<i>Carex jamesii</i>	5	UPL	Nt P-Sedge	GRASS SEDGE		500			
<i>Carex pensylvanica</i>	5	UPL	Nt P-Sedge	COMMON OAK SEDGE		500			
<i>Carex radiata</i>	5	FAC	Nt P-Sedge	STRAIGHT STYLED WOOD SEDGE		500			
<i>Carex rosea</i>	4	UPL	Nt P-Sedge	Curly-Style Wood Sedge		100			
<i>Fragaria virginiana</i>	1	FACU	Nt P-Forb	Virginia Strawberry				200	
<i>Hystrix patula</i>	5	UPL	Nt P-Grass	BOTTLEBRUSH GRASS	5.00		2.50		
<i>Kuhnia eupatorioides</i>	6	UPL	Nt P-Forb	FALSE BONESET	1.00	25	0.50		0.25
<i>Liatris cylindracea</i>	8	UPL	Nt P-Forb	CYLINDRICAL BALZING STAR	1.00	5	0.50		0.25
<i>Monarda punctata</i>	5	UPL	Nt P-Forb	SPOTTED BEE BALM	1.00	50	0.50		0.25
<i>Pedicularis canadensis</i>	9	FACU+	Nt P-Forb	WOOD BETONY				250	
<i>Petalostemum purpureum</i>	9	UPL	Nt P-Forb	PURPLE PRAIRIE CLOVER	10.00	50	5.00		2.50
<i>Polemonium reptans</i>	5	FAC	Nt P-Forb	JACOB'S LADDER		200			
<i>Polygonatum canaliculatum</i>	3	FACU	Nt P-Forb	SMOOTH SOLOMON'S SEAL		100			
<i>Sanguinaria canadensis</i>	6	FACU	Nt P-Forb	Bloodroot				250	
<i>Sedum ternatum</i>	10	UPL	Nt P-Forb	WILD STONECROP				100	
<i>Senecio obovatus</i>	10	FACU	Nt P-Forb	ROUND-LEAVE GOLDENROD				100	
<i>Sisyrinchium albidum</i>	7	FACU	Nt P-Forb	White Blue-Eyed-Grass				200	
<i>Solidago caesia</i>	7	FACU	Nt P-Forb	Wreath Goldenrod	0.50				
<i>Solidago flaxicaulis</i>	7	FACU	Nt P-Forb	ZIG ZAG GOLDENROD	5.00				
<i>Sporobolus heterolepis</i>	10	FACU-	Nt P-Grass	PRAIRIE DROPSEED	5.00	100		10	
<i>Viola pedata lineariloba</i>	9	UPL	Nt P-Forb	Bird-Foot Violet				200	
<i>Viola pedatifida</i>	9	FACU	Nt P-Forb	Crow-Foot Violet				200	
				Total	412.50	3330.00	12.00	2210.00	4.75

Oak Savanna Open					Year 1	Year 1	Year 2		
SCIENTIFIC NAME	C	WETNESS	PHYSIOGNOMY	COMMON NAME	Ozs/acre	Plugs/acre	Ozs/acre		
<i>Andropogon scoparius</i>	5	FACU-	Nt P-Grass	LITTLE BLUESTEM GRASS	5.00	25			
<i>Anemone cylindrica</i>	6	UPL	Nt P-Forb	THIMBLEWEED	0.50	150			
<i>Asclepias verticillata</i>	1	UPL	Nt P-Forb	WHORLED MILKWEED	1.00		0.25		
<i>Asclepias tuberosa</i>	7	UPL	Nt P-Forb	BUTTERFLY WEED	0.00	50	0.00		
<i>Aster azureus</i>	8	UPL	Nt P-Forb	SKY-BLUE ASTER	0.00	150	0.00		
<i>Aster ericoides</i>	5	FACU-	Nt P-Forb	HEATH ASTER	0.50	150	0.25		
<i>Avena sativa</i>				OATS	300.00				
<i>Baptisia leucophaea</i>	10	UPL	Nt P-Forb	CREAM WILD INDIGO	0.00	50	0.00		
<i>Blephilia hirsuta</i>	8	FACU-	Nt P-Forb	HAIRY WOOD MINT	2.00		0.00		
<i>Bouteloua curtipendula</i>	8	UPL	Nt P-Grass	SIDE-OATS GRAMMA	10.00				
<i>Carex blcknelli</i>	10	UPL	Nt P-Sedge	COPPER-SHOULDERED OVAL	0.00	200	0.00		
<i>Carex brevior</i>	4	FACU	Nt P-Sedge	PLAINS OVAL SEDGE	0.00	200	0.00		
<i>Cassia fasciculata</i>	5	FACU	Nt P-Forb	PARTRIDGE PEA	5.00		2.50		
<i>Dodecatheon meadia</i>	6	FACU	Nt P-Forb	SHOOTING STAR		10			
<i>Eragrostis spectabilis</i>	3	UPL	Nt P-Grass	PURPLE LOVE GRASS	2.00				
<i>Fragaria virginiana</i>	1	FACU	Nt P-Forb	Virginia Strawberry	0.00	200	0.00		
<i>Hypericum punctatum</i>	4	FACU	Nt P-Forb	DOTTED ST. JOHN'S WORT	1.00		0.25		
<i>Juncus tenuis</i>	0	FACU	Nt P-Forb	PATH RUSH	25.00	0	0.00		
<i>Koeleria cristata</i>	7	UPL	Nt P-Grass	JUNE GRASS	2.00	0			
<i>Krigia virginica</i>	6	UPL	Nt P-Forb	DWARF DANDELION	0.00	125	0.00		
<i>Liatris cylindracea</i>	8	UPL	Nt P-Forb	CYLINDRICAL BALZING STAR	0.00	100	0.00		
<i>Penstemon pallidus</i>	6	UPL	Nt P-Forb	PALE BEARDTONGUE	2.00	0	0.25		
<i>Petalostemum candidum</i>	9	UPL	Nt P-Forb	WHITE PRAIRIE CLOVER	2.00		1.00		
<i>Petalostemum purpureum</i>	9	UPL	Nt P-Forb	PURPLE PRAIRIE CLOVER	2.00	0	1.00		
<i>Pycnanthemum tenuifolium</i>	7	FAC	Nt P-Forb	NARROW-LEAF MOUNTAIN MINT	1.00		0.50		
<i>Quercus macrocarpa</i>	5	FAC-	Nt Tree	BUR OAK		2	0.00		
<i>Ruellia humilis</i>	7	FACU	Nt P-Forb	WILD PETUNIA	2.00		0.25		
<i>Senecio obovatus</i>	10	FACU	Nt P-Forb	ROUND-LEAVE GOLDENROD		200	0.00		
<i>Sisyrinchium albidum</i>	7	FACU	Nt P-Forb	White Blue-Eyed-Grass	3.00	150			
<i>Solidago juncea</i>	5	UPL	Nt P-Forb	EARLY GOLDENROD	1.00	0	0.50		
<i>Sporobolus heterolepis</i>	10	FACU-	Nt P-Grass	PRAIRIE DROPSEED	1.00	500	0.00		
				Total	368.00	2262.00	6.75		

Wetland Shelf					Year 1	Year 2	Year 3		
SCIENTIFIC NAME	C	WETNESS	PHYSIOGNOMY	COMMON NAME	Plugs/acre	Plugs/acre	Plugs/acre		
<i>Calamagrostis canadensis</i>	3	OBL	Nt P-Grass	BLUE JOINT GRASS	1000	500	250		
<i>Carex aquatilis altior</i>	5	OBL	Nt P-Sedge	LONG-BRACTED TUSSOCK SEDGE	500	250	125		
<i>Carex emoryii</i>	6	OBL	Nt P-Sedge	RIVERBANK SEDGE	1000	500	250		
<i>Carex lacustris</i>	6	OBL	Nt P-Sedge	COMMON LAKE SEDGE	100	50	25		
<i>Carex pellita</i>	4	OBL	Nt P-Sedge	BROAD-LEAVED WOOLLY SEDGE	100	50	25		
<i>Carex stricta</i>	5	OBL	Nt P-Sedge	COMMON TUSSOCK SEDGE	100	50	25		
<i>Leersia oryzoides</i>	4	OBL	Nt P-Grass	RICE CUT GRASS	1000	500	250		
<i>Iris virginica shrevei</i>	5	OBL	Nt P-Forb	BLUE FLAG	1000	500	250		
<i>Juncus effusus</i>	7	OBL	Nt P-Sedge	COMMON SEDGE	1000	500	250		
<i>Scirpus acutus</i>	6	OBL	Nt P-Sedge	HARD-STEMMED BULRUSH	1000	500	250		
<i>Scirpus fluviatilis</i>	4	OBL	Nt P-Sedge	RIVER BULRUSH	1000	500	250		
<i>scirpus pungens</i>	5	OBL	Nt P-Sedge	CHAIRMAKER'S RUSH	1000	500	250		
<i>Scirpus validus</i>	5	OBL	Nt P-Sedge	GREAT BULRUSH	1000	500	250		
<i>Spartina pectinata</i>	4	FACW+	Nt P-Grass	PRAIRIE CORD GRASS	1000	500	250		
				Total	10800	5400	2700		

Vernal Pool					Year 1	Year 1	Year 2	Year 2	Year 3
SCIENTIFIC NAME	C	WETNESS	PHYSIOGNOMY	COMMON NAME	Ozs/acre	Plugs/acre	Plug/acre	Ozs/acre	Plug/acre
<i>Andropogon scoparius</i>	5	FACU-	Nt P-Grass	LITTLE BLUESTEM GRASS	5.00				
<i>Asclepias incarnata</i>	4	OBL	Nt P-Forb	MARSH MILKWEED	2.00	100	50		50
<i>Aster novae-angliae</i>	4	FACW	Nt P-Forb	NEW ENGLAND ASTER	2.00	100	50		50
<i>Aster puniceus firmis</i>	7	OBL	Nt P-Forb	SHINING ASTER	2.00	100	50		50
<i>Carex annectans xanthocarpa</i>	7	FAC	Nt P-Sedge	SMALL YELLOW FOX SEDGE	2.00				
<i>Carex granularis</i>	4	FACW+	Nt P-Sedge	PALE SEDGE	1.00	50	25		
<i>Carex pellita</i>	4	OBL	Nt P-Sedge	BROAD-LEAVED WOOLLY SEDGE		100	50		
<i>Carex scoparia</i>	7	FACW	Nt P-Sedge	LANCE-FRUITED OVAL SEDGE	2.00				
<i>Carex vulpinoidea</i>	2	OBL	Nt P-Sedge	BROWN FOX SEDGE	3.00				
<i>Cassia hebecarpa</i>	9	FACW	Nt A-Forb	WILD SENNA	5.00	100	50		50
<i>Elymus riparius</i>	5	FAC-	Nt P-Grass	RIVERBANK WILD RYE	100.00				
<i>Elymus virginicus</i>	4	FACW-	Nt P-Grass	VIRGINIA WILD RYE	200.00				
<i>Helenium autumnale</i>	5	FACW+	Nt P-Forb	SNEEZEWEED	2.00	150	75		75
<i>Helianthus grosseserratus</i>	2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER	2.00				
<i>Liatris spicata</i>	6	FAC	Nt P-Forb	DENSE BLAZING STAR	1.00	100	50		50
<i>Lobelia cardinalis</i>	7	OBL	Nt P-Forb	CARDINAL FLOWER		200	100		100
<i>Lobelia siphilitica</i>	6	FACW+	Nt P-Forb	GREAT BLUE LOBELIA		100	50		50
<i>Lycopus americanus</i>	5	OBL	Nt P-Forb	WATER HOREHOUND	4.00	100	50		50
<i>Panicum virgatum</i>	5	FAC+	Nt P-Grass	SWITCH GRASS				5.00	
<i>Pycnanthemum virginicum</i>	5	FACW+	Nt P-Forb	MOUNTAIN MINT	1.00				
<i>Rubus triloba</i>	3	FAC-	Nt P-Forb	BROWN-EYED SUSAN	3.00				
<i>Rudbeckia fulgida speciosa</i>	8	FACW	Nt P-Forb	SHOWY-BLACK-EYED SUSAN	5.00				
<i>Rudbeckia laciniata</i>	5	FACW+	Nt P-Forb	WILD GOLDEN GLOW	3.00				
<i>Scirpus atrovirens</i>	4	OBL	Nt P-Sedge	DARK GREEN BULRUSH	3.00				
<i>Scirpus pendulus</i>	4	OBL	Nt P-Sedge	NODDING BULRUSH	1.00				
<i>Silphium perfoliatum</i>	5	FACW-	Nt P-Forb	CUP PLANT	10.00				
<i>Solidago riddellii</i>	7	OBL	Nt P-Forb	RIDDELL'S GOLDENROD	1.00	100	50		50
<i>Spartina pectinata</i>	4	FACW+	Nt P-Grass	PRAIRIE CORD GRASS	5.00				
<i>Vernonia altissima</i>	3	FAC	Nt P-Forb	SMOOTH TALL IRONWEED	1.00	150	75		75
<i>Zizia aurea</i>	7	FAC+	Nt P-Forb	GOLDEN ALEXANDERS	2.00	200	100		100
Cover Crop					400.00				
				Total	768.00	1650.00	825.00	5.00	750.00