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Lake Michigan Bluff

Native species per mix	26
Native seeds per square foot	300
Native FQI NE Illinois	23.34
Native FQI Illinois	21.18
Native Mean C Value NE Illinois	4.58
Native Mean C Value Illinois	4.15
Mean W Value NE Illinois	2.92
Mean W Value Illinois	2.65

A mix of shorter grasses, a sedge, a rush, and forbs mix help erosion control on clay bluffs of Lake Michigan. Dormant seed for most diversity. This mix requires appropriate erosion control materials and structures.

This seeding represents an early successional community. Most stable lake bluffs were forested, and the herbaceous, shrubby, scenic open vistas were forests in the making. Your planting may include trees and shrubs from, but not limited to, the following list: *Betula papyrifera* Paper Birch, *Hamamelis virginiana* Witch Hazel, *Juniperus communis* Common Juniper, *Juniperus virginiana*, Eastern Red Cedar, *Pinus resinosa* Red Pine, *Pinus strobus* White Pine, *Populus balsamifera* Balsam Poplar, *Quercus alba* White Oak, *Quercus bicolor* Swamp White Oak, *Quercus coccinea* Scarlet Oak, *Quercus rubra* Red Oak, and *Thuja occidentalis* Arbor vitae.

Graminoids, or grasses, sedges, rushes, and other grasslike plants.

ACRONYMS		vPlants		scientific name	common name	family	type	S&W C	S&W index	S&W wet acro	Illinois C	Illinois index	IL wet acro	IL wet index	height	color	bloom time							seeds/oz	seeds/lb	lb/ac	seeds/acre	seeds/ftsq	% by weight	% by count									
S&W	ILL	USDA	BOCU	BOCU													M	A	M	J	J	A	S	O	N														
BOUCUR	BOUCUR	BOCU	BOCU	<i>Bouteloua curtipendula</i>	Side Oats Gramma	Graminae	Nt P-Grass	8	5	UPL	7	5	UPL	1.5-3.0 (2.3)	na											6,563	105,000	4,000	420,000	9.64	19.14%	3.21%							
CXBREV	CXBREV	CABR10	CABR10	<i>Carex brevior</i>	Shorter Sedge	Cyperaceae	Nt P-Sedge	4	3	[FACU]	4	0	FAC	1.0-3.0 (2.0)	na											26,875	430,000	0.500	215,000	4.94	2.39%	1.64%							
ELYCAN	ELECAN	ELCA4	ELCA4	<i>Elymus canadensis</i>	Canada Wild Rye	Graminae	Nt P-Grass	4	1	FAC-	4	1	FAC-	2.0-4.0 (3.0)	na											7,500	120,000	3,000	360,000	8.26	14.36%	2.75%							
HYSPAT	ELYHYS	ELHY	ELHY	<i>Elymus hystrix (Hystrix patula)</i>	Bottlebrush Grass	Graminae	Nt P-Grass	5	5	UPL	5	5	UPL	2.0-3.0 (2.5)	na											5,625	90,000	0.063	5,670	0.13	0.30%	0.04%							
ELYVIL	ELYVIL	ELV1	ELV1	<i>Elymus villosus</i>	Silky Wild Rye	Graminae	Nt P-Grass	5	3	FACU	4	3	FACU	3.0-5.0 (4.0)	na											6,875	110,000	2,000	220,000	5.05	9.57%	1.68%							
ELYVIR	ELYVIR	ELV3	ELV3	<i>Elymus virginicus</i>	Virginia Wild Rye	Graminae	Nt P-Grass	4	-2	FACW-	4	-2	FACW-	1.0-1.5 (2.3)	na											5,750	92,000	4,000	368,000	8.45	19.14%	2.81%							
FESOBT	FESOBT	FESU3	FESU3	<i>Festuca subverticillata (F. obtusa)</i>	Nodding Fescue	Graminae	Nt P-Grass	5	2	FACU+	5	2	FACU+	1.0-1.5 (1.3)	na											24,375	390,000	0.250	97,500	2.24	1.20%	0.75%							
JUNTEN	JUNTEN	JUTE	JUTE	<i>Juncus tenuis</i>	Slender Rush	Juncaceae	NT P-Rush	0	2	[FACU+]	0	0	FAC	0.72-1.3 (1.0)	green											3,000,000	48,000,000	0.125	6,000,000	137.74	0.60%	45.86%							
ANDSCO	SCHSCO	SCSCS	SCSCS	<i>Schizachyrium scoparium (Andropogon s.)</i>	Little Bluestem	Graminae	Nt P-Grass	5	4	FACU-	5	4	FACU-	1.5-3.5 (2.0)	na											15,625	250,000	4,000	1,000,000	22.96	19.14%	7.64%							
																							Graminoid totals		17,938	8,686,170	199	85.84%	66.39%										

Forbs

ACRONYMS		vPlants		scientific name	common name	family	type	S&W C	S&W index	S&W wet acro	Illinois C	Illinois index	IL wet acro	IL wet index	height	color	bloom time							seeds/oz	seeds/lb	lb/ac	seeds/acre	seeds/ftsq	% by weight	% by count									
S&W	ILL	USDA	EURU6	EURU6													M	A	M	J	J	A	S	O	N														
EUPRUG	EUPRUG	AGALA	EURU6	<i>Ageratina altissima (Eupatorium rugosum)</i>	White Snake Root	Compositae	Nt P-Forb	4	5	UPL	2	3	FACU	1.5-2.5 (2.0)	white												218,750	3,500,000	0.016	56,000	1.29	0.08%	0.43%						
ANEVIR	ANEVIR	ANV3	ANV3	<i>Anemone virginiana</i>	Tall Anemone	Ranunculaceae	Nt P-Forb	5	5	UPL	4	5	UPL	1.5-2.5 (2.0)	white												25,000	400,000	0.031	12,400	0.28	0.15%	0.09%						
ASCVER	ASCVER	ASVE	ASVE	<i>Asclepias verticillata</i>	Whorled Milkweed	Asclepiadaceae	Nt P-Forb	1	5	UPL	1	5	UPL	1.2-2.0 (1.5)	white												12,500	200,000	0.188	37,600	0.86	0.90%	0.29%						
DESCAA	DESCAD	DECA7	DECA7	<i>Desmodium canadense</i>	Showy Ticktrefoil	Leguminosae	Nt P-Forb	4	1	FAC-	5	1	FAC-	3.0-5.5 (4.0)	pink												6,875	110,000	0.094	10,340	0.24	0.45%	0.08%						
SOLGRG	EUTGRA	EUGR5	EUGR5	<i>Euthamia graminifolia (Solidago g.)</i>	Grassleaf Goldenrod	Compositae	Nt P-Forb	4	-2	FACW-	3	-2	FACW-	1.0-4.0 (2.0)	yellow												550,000	8,800,000	0.063	554,400	12.73	0.30%	4.24%						
MONFIS	MONFIS	MOF1	MOF1	<i>Monarda fistulosa</i>	Bergamot	Labiatae	Nt P-Forb	4	3	FACU	4	3	FACU	2.0-4.0 (3.0)	pink												68,750	1,100,000	0.125	137,500	3.16	0.60%	1.05%						
POLCAL	POLCAM	POBIC	POBIC	<i>Polygonatum biflorum commutatum (P. canaliculatum)</i>	Smooth Solomons Seal	Liliaceae	Nt P-Forb	3	3	FACU	4	3	FACU	1.5-2.5 (2.0)	cream												1,063	17,000	0.063	1,071	0.02	0.30%	0.01%						
RUDHIR	RUDHIR	RUH2	RUH2	<i>Rudbeckia hirta</i>	Blackeyed Susan	Compositae	Nt P-Forb	1	3	FACU	2	3	FACU	1.0-2.0 (1.5)	yellow												93,750	1,500,000	1.000	1,500,000	34.44	4.79%	11.46%						
SOLJUN	SOLJUN	SOJU	SOJU	<i>Solidago juncea</i>	Early Goldenrod	Compositae	Nt P-Forb	5	5	UPL	4	5	UPL	1.0-2.5 (1.5)	yellow												240,625	3,850,000	0.063	242,550	5.57	0.30%	1.85%						
SOLULM	SOLULM	SOLU2	SOLU2	<i>Solidago ulmifolia</i>	Elmleaf Goldenrod	Compositae	Nt P-Forb	5	5	UPL	5	5	UPL	2.0-4.0 (3.0)	yellow												168,750	2,700,000	0.188	507,600	11.65	0.90%	3.88%						
ASTSD	ASTDRU	SYDRD	ASDR	<i>Symphotrichum drummondii (Aster d.)</i>	Drummonds Aster	Compositae	Nt P-Forb	2	3	[FACU]	3	3	FACU	1.5-3.0 (2.3)	blue												81,250	1,300,000	0.063	81,900	1.88	0.30%	0.63%						
ASTLAE	ASTLAE	SYLAL3	ASLAE	<i>Symphotrichum laeve (Aster l.)</i>	Smooth Aster	Compositae	Nt P-Forb	9	5	UPL	8	5	UPL	2.0-3.5 (2.5)	blue												68,750	1,100,000	0.375	412,500	9.47	1.79%	3.15%						
ASTLAT	ASTLAT	SYLAL7	ASLAE	<i>Symphotrichum lateriflorum (Aster l.)</i>	Calico Aster	Compositae	Nt P-Forb	4	-2	FACW-	2	-2	FACW-	2.0-3.0 (2.5)	blue												240,625	3,850,000	0.063	242,550	5.57	0.30%	1.85%						
ASTAZU	ASTAZU	SYOO	ASOO4	<i>Symphotrichum oolentangiensis (Aster azureus) *A o*</i>	Azure Aster	Compositae	Nt P-Forb	8	5	UPL	7	5	UPL	2.0-3.0 (2.5)	blue												87,500	1,400,000	0.125	175,000	4.02	0.60%	1.34%						
ASTSHO	ASTSHO	SYSH	ASSH	<i>Symphotrichum shortii (Aster s.)</i>	Shorts Aster	Compositae	Nt P-Forb	8	5	UPL	6	5	UPL	2.0-3.0 (2.5)	blue												75,000	1,200,000	0.250	300,000	6.89	1.20%	2.29%						
ASTSAS	ASTSAG	SYUR	ASUR2	<i>Symphotrichum urophyllum (Aster sagittifolius) *A u*</i>	Arrowleaf Aster	Compositae	Nt P-Forb	5	5	UPL	4	5	UPL	2.0-3.0 (2.5)	blue												87,500	1,400,000	0.063	88,200	2.02	0.30%	0.67%						
ZIZAUR	ZIZAUR	ZIAU	ZIAU	<i>Zizia aurea</i>	Golden Alexander	Umbelliferae	Nt P-Forb	7	-1	FAC+	6	-1	FAC+	1.0-2.5 (2.0)	yellow												12,500	200,000	0.188	37,600	0.86	0.90%	0.29%						
																							Forb totals		2,958	4,397,211	101	14.16%	33.61%										
																							Graminoid & forb totals		20,896	13,083,381	300	100.00%	100.00%										

Nurse Crop

ACRONYMS		vPlants		scientific name	common name	family	type	S&W C	S&W index	S&W wet acro	Illinois C	Illinois index	IL wet acro	IL wet index	height	color	bloom time							seeds/oz	seeds/lb	lb/ac	seeds/acre	seeds/ftsq									
S&W	ILL	USDA	LOMUL <th>LOMUL <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>M</th> <th>A</th> <th>M</th> <th>J</th> <th>J</th> <th>A</th> <th>S</th> <th>O</th> <th>N</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </th>	LOMUL <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>M</th> <th>A</th> <th>M</th> <th>J</th> <th>J</th> <th>A</th> <th>S</th> <th>O</th> <th>N</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>													M	A	M	J	J	A	S	O	N												
AVESAT	AVESAT	AVSA	LOMUL	<i>Avena sativa</i>	Oats	Graminae	Ad A-Grass	*	5	UPL	*	5	UPL	2.0-3.0 (2.5)	na												938	15,000	40,000	600,000	13.77						
LOLMUL	LOLMUL	LOPEM2	LOMUL	<i>Lolium multiflorum (L. perenne ssp m)</i>	Italian Rye	Graminae	Ad A-Grass	*	5	UPL	*	5	UPL	2.0-3.0 (2.5)	na												14,188	227,000	10,000	2,270,000	52.11						
																							Nurse Crop totals		50,000	2,870,000	66										

Key

- ☼ main bloom
- ☼ extended bloom
- ☼ fall leaf color
- ☼ fruit color
- [Abc] new scientific name
- {Abc} old scientific name
- *Abc* transitional name
- ☼ yellow is uncertain data

OBL = -5, FACW+ = -4, FACW = -3, FACW- = -2, FAC+ = -1, FAC = 0, FAC- = 1, FACU+ = 2, FACU = 3, FACU- = 4, UPL = 5.

Graminoids include Graminae (grasses), Cyperaceae (sedges), Juncaceae (rushes), Sparganaceae (burreeds), and Acoraceae (sweetflag). Forbs are herbs and select shrubs, which typically behave as herbaceous in a fire managed context, both having more or less showy flowers.

New and old scientific names are relative terms. Many 'new' names are actually names that were in use 80 to 100 years ago, but were replaced by the names with which we have become accustomed. New is used in the sense that the names have recently come into use or will be soon in Illinois.