

Central Midwest Sedge Meadow

Site Characteristics: Stands occur on nearly level floodplains, often in bands surrounding channels or in basins, in wet meadows, and sometimes shallow water. Soils are poorly drained silty and clay loams formed in alluvium. Soils are most commonly mineral with large amounts of organic matter or, more rarely, with thick accumulations of partially decomposed sedges. Stands are flooded for much of the growing season, but may dry out in late summer. Hydrology varies from seasonally to almost semi-permanently flooded.

Vegetation Characteristics: The vegetation cover is quite dense and may be patchy. This community is dominated by rhizomatous, perennial graminoids that are 0.5-1.5 m tall. The graminoid stratum is characterized by sedges providing 40-90% cover. The Central Midwest Sedge Meadow community may be characterized by a nearly monotypic cover of 40-90% Woolly Sedge. Other typical sedge species include Crested Oval Sedge, Field Oval Sedge, Common Fox Sedge, Awl-fruited Oval Sedge, and Brown Fox Sedge. Other emergent graminoid cover is minor (0-20% cover) frequently including Spikerush species, Inland Rush, Torrey's Rush and Dark Green Bulrush. Rice Cut-grass may be common where the stand borders a marsh. Forbs are common (0-40% cover) and may be conspicuous. Among the more common are Indian Hemp, Panicked Aster, Water Horehound, Winged Loosestrife, and Blue Vervain. This type may grade into freshwater marsh types, making separation difficult in the field.

Range:

Conservation Status: Not Yet Ranked

Management Considerations: The Central Midwest Sedge Meadow appears to be a fairly stable community due to the dominant species' rhizomatous roots. With season-long grazing, Woolly Sedge decreases in abundance, shifting dominance towards Kentucky Bluegrass. Reed Canarygrass may invade this community to the point of excluding many of the native species.

Iowa NRCS Plant Community Description

This community description is a compilation of the Community Association and its over-riding Community Alliance description as provided by NatureServe (www.natureserve.org/explorer). Where necessary, community descriptions were adapted as recommended by Iowa plant community experts.

3/12/2009

CENTRAL MIDWEST SEDGE MEADOW						
SCIENTIFIC NAME	COMMON NAME	STRATA	FUNCTIONAL GROUP	IA CofC	SEEDS PER LB	STATE STATUS
<i>Anemone canadensis</i>	Canada anemone	Herbaceous Layer	P-FORB	2	128000	
<i>Apocynum cannabinum</i>	Indian hemp	Herbaceous Layer	P-FORB	1	500000	
<i>Calamagrostis stricta</i>	Northern reed grass	Herbaceous Layer	P-GRASS, COOL SEASON	7	2302499	
<i>Carex buxbaumii</i>	Dark-scaled sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	8		
<i>Carex cristatella</i>	Crested oval sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	5	928000	
<i>Carex molesta</i>	Field oval sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	2	400000	
<i>Carex pellita</i>	Wooly sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	4	448000	
<i>Carex sartwellii</i>	Running marsh sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	7	1014748	
<i>Carex stipata</i>	Common fox sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	5	544000	
<i>Carex stricta</i>	Common tussock sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	6	848000	
<i>Carex tribuloides</i>	Awl-fruited oval sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	3	1920000	
<i>Carex vulpinoidea</i>	Brown fox sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	3	1600000	
<i>Eleocharis compressa</i>	Flatstem spikerush	Herbaceous Layer	P-SEDGE, COOL SEASON	7	900000	
<i>Eleocharis spp.</i>	Spikerush	Herbaceous Layer	SEDGE, COOL SEASON			
<i>Juncus arcticus littoralis</i>	Bog rush	Herbaceous Layer	P-SEDGE, COOL SEASON	6	3000000	
<i>Juncus interior</i>	Inland rush	Herbaceous Layer	P-SEDGE, COOL SEASON	2	44800000	
<i>Juncus torreyi</i>	Torrey's rush	Herbaceous Layer	P-SEDGE, COOL SEASON	3	25600000	
<i>Leersia oryzoides</i>	Rice cut-grass	Herbaceous Layer	P-GRASS, COOL SEASON	2	544000	
<i>Lycopus americanus</i>	Water horehound	Herbaceous Layer	P-FORB	4	2080000	
<i>Lytthrum alatum</i>	Winged loosestrife	Herbaceous Layer	P-FORB	3	48000000	
<i>Mentha arvensis</i>	Wild mint	Herbaceous Layer	P-FORB	4	4800000	
<i>Polygonum amphibium emersum</i>	Water smartweed	Herbaceous Layer	P-FORB	3	125000	
<i>Prunella vulgaris lanceolata</i>	Self heal	Herbaceous Layer	P-FORB	0	668000	
<i>Schoenoplectus acutus</i>	Hard-stemmed bulrush	Herbaceous Layer	P-SEDGE, COOL SEASON	4	206400	
<i>Schoenoplectus americanus/pungens</i>	Threesquare	Herbaceous Layer	P-SEDGE, COOL SEASON	7	192000	
<i>Scirpus atrovirens</i>	Dark green bulrush	Herbaceous Layer	P-SEDGE, COOL SEASON	1	7360000	
<i>Scirpus pallidus</i>	Pale bulrush	Herbaceous Layer	P-SEDGE, COOL SEASON	10		

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SCIENTIFIC NAME	COMMON NAME	STRATA	FUNCTIONAL GROUP	IA CofC	SEEDS PER LB	STATE STATUS
<i>Symphotrichum lanceolatum</i>	Panicled aster	Herbaceous Layer	P-FORB	4	700000	
<i>Verbena hastata</i>	Blue vervain	Herbaceous Layer	P-FORB	3	1488000	

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CENTRAL MIDWEST SEDGE MEADOW

[illegible]

* PLS seeding rate must be converted to a bulk seeding rate

CENTRAL MIDWEST SEDGE MEADOW

If cell is in red criteria not met. If cell is in orange recommendation not met.		Functional Group			Seed/ft ² % mix	Species
Percent of Mix	Exceeded the 20% of mix maximum for seeds/ft ²	A-FORB			7.2%	3
Number of Graminoid Species	Minimum of 10 graminoid species not met	A-GRASS, COOL SEASON			0.0%	0
Number of Forbs & Sub-shrubs	Minimum of 20 forb and sub-shrub species not met	A-GRASS, WARM SEASON			0.0%	0
Total Number of Species	Minimum of 30 species not met	A-SEDGE, COOL SEASON			0.0%	0
PLS Seeds/ft ²	Minimum of 40 seeds/ft ² not met	A-SEDGE, WARM SEASON			0.0%	0
Graminoid Seed/ft ²	Minimum 20 seeds/ft ² of graminoids not met	B-FORB			1.0%	1
Forb & Sub-shrub Seed/ft ²	Minimum 20 seeds/ft ² of forbs and sub-shrubs not met	FERN			0.0%	0
Floristic Quality Index (FQI)	Floristic quality index is below the required 20.0 minimum.	HEMIPARASITE			6.8%	2
Mix Conservatism (CC)	Coefficient of Conservatism is below the required 3.0 minimum.	H-VINE			0.0%	0
Simpson's Evenness	Evenness (balance) of the mix is below the recommended 70%	LEGUME			2.5%	1
Conservatism Guilds:		PARASITIC			0.0%	0
Early Successional	Does not fall within the recommended range of 15-33%	P-FORB			41.7%	15
Mid-Successional	Does not fall within the recommended range of 45-65%	P-GRASS, COOL SEASON			6.9%	2
Late Successional	Does not fall within the recommended range of 15-33%	P-GRASS, WARM SEASON			1.8%	1
		P-SEDGE, COOL SEASON			41.4%	16
		P-SEDGE, WARM SEASON			0.0%	0
		SHRUB			0.0%	0
		SUB-SHRUB			0.1%	1
		TREE			0.0%	0
		W-VINE			0.0%	0
		Number of Functional Groups			9	

Evenness Calculation	
Sum of Squares	0.03
Simpson's Evenness:	0.86

Conservatism Guilds	Species	Seed/ft ² % mix
EARLY SUCCESSIONAL (0-3)	15	39.4%
MID SUCCESSIONAL (4-7)	21	52.8%
LATE SUCCESSIONAL (8-10)	3	7.8%
	39	100.0%

Seeding Plan

Page 1 of 2

Name _____
 Prepared by _____

Date _____
 Tract No. _____
 Field No. _____
 Contract No. _____

Type of Seeding: **Central Midwest Sedge Meadow**

Acres

Seeding Mix Summary

Graminoids	Scientific Name	Common Name	Seeds/Ft2	PLS Lbs / Total PLS	
				Acre	lb
1	Calamagrostis canadensis	bluejoint	1.50	0.015	0.000
2	Carex molesta	troublesome sedge	1.00	0.109	0.000
3	Carex pellita	woolly sedge	0.25	0.024	0.000
4	Carex stipata	owlfruit sedge	1.50	0.120	0.000
5	Carex stricta	upright sedge	1.00	0.051	0.000
6	Carex tribuloides	blunt broom sedge	1.20	0.027	0.000
7	Carex vulpinoidea	fox sedge	1.50	0.041	0.000
8	Eleocharis acicularis	needle spikerush	1.05	0.041	0.000
9	Eleocharis obtusa	blunt spikerush	1.25	0.034	0.000
10	Juncus arcticus ssp. littoralis	Baltic rush	1.50	0.022	0.000
11	Juncus interior	inland rush	1.25	0.001	0.000
12	Juncus torreyi	Torrey's rush	1.25	0.002	0.000
13	Leersia oryzoides	rice cutgrass	1.25	0.100	0.000
14	Muhlenbergia mexicana	Leafy satin grass	0.70	0.011	0.000
15	Schoenoplectus acutus	hardstem bulrush	0.50	0.106	0.000
16	Schoenoplectus fluviatilis	River bulrush	0.12	0.076	0.000
17	Schoenoplectus tabernaemontani	Soft-stemmed bulrush	1.06	0.093	0.000
18	Scirpus atrovirens	green bulrush	1.06	0.006	0.000
19	Scirpus cyperinus	woolgrass	1.06	0.002	0.000
20					0.000
21					0.000
SUBTOTAL GRAMINOIDS			20.00	0.88	0.000

Forbs/Legumes	Scientific Name	Common Name	Seeds/Ft2	PLS Lbs / Total PLS	
				Acre	lb
1	Anemone canadensis	Canada anemone	0.25	0.085	0.000
2	Agalinis tenuifolia	Slender false foxglove	1.36	0.005	0.000
3	Caltha palustris	Marsh marigold	0.40	0.042	0.000
4	Chamaecrista fasciculata	Partridge pea	1.00	1.008	0.000
5	Chelone glabra	White turtlehead	1.36	0.040	0.000
6	Cicuta maculata	Water hemlock	0.40	0.091	0.000
7	Eupatorium maculatum	Spotted Joe-pye-weed	1.36	0.039	0.000
8	Eupatorium perfoliatum	Boneset	1.36	0.023	0.000
9	Gentiana andrewsii	Bottle gentian, closed gentian	1.36	0.013	0.000
10	Helenium autumnale	Sneezeweed	1.36	0.028	0.000
11	Lycopus americanus	Water horehound	1.36	0.028	0.000
12	Lythrum alatum	Winged loosestrife	1.36	0.001	0.000
13	Mentha arvensis	Wild mint	1.36	0.012	0.000
14	Pedicularis lanceolata	Swamp lousewort	1.36	0.084	0.000
15	Polygonum pensylvanicum laevigatum	Pinkweed	0.50	0.105	0.000
16	Pycnanthemum virginianum	Common mountain mint	1.36	0.017	0.000
17	Rosa palustris	Swamp rose	0.05	0.085	0.000
18	SYMPHYOTRICHUM LANCEOLATUM	Panicled aster	0.90	0.056	0.000
19	Thalictrum dasycarpum	Purple meadow-rue	0.75	0.186	0.000
20	Verbena hastata	Blue vervain	0.79	0.023	0.000
21					0.000
22					0.000
23					0.000
24					0.000
25					0.000
26					0.000
27					0.000
28					0.000
29					0.000
30					0.000
SUBTOTAL FORBS			20.00	1.97	0.000
TOTAL			40.00	2.853	0.000

SEEDING MIX FLORISTIC QUALITY VALUES

Average Coefficient of Conservatism	4.2
Floristic Quality Index	25.9

Fertilizer & Lime	General Soil Test	Total Needed lbs
Lime (ECCE) (Actual Lime)	2000	0
Nitrogen	30	0
Phosphate (P205)	30	0
Potash (K20)	40	0

Additional Seeding Criteria:

Do not apply fertilizer. Frost seeding dates Feb. 1st - March 15th.

Spring seeding dates are between April 15th to July 1st.

Dormant Seeding dates are between November 15th to freeze up.

Seeding was completed by

(Date)

according to the above requirements.

(Producer's Signature)

(Date)

Field Office

Certified by

(NRCS Representative)

When seeding is completed, return seeding plan to the Natural Resources Conservation Services.

For state cost-share projects, attach receipts for seed, fertilizer, lime and mulch.

For Federal cost-share, return receipts to Farm Service Agency.