

Northern Cordgrass Wet Prairie

Site Characteristics: This community occurs in shallow pond basins, swales, meadows and in concentric bands peripheral to most temporary and seasonal wetlands, ponds and lakes. It also occurs on floodplains and terraces of streams and rivers. Sites are generally level to gently sloping. The soils are deep, typically poorly drained, with clay or silt loam soils that have a characteristic gleyed layer. Less commonly, stands may occur on organic soils. Parent materials include alluvium and glacial till. The community is subject to seasonal inundation, but standing water typically does not persist for more than a few weeks. The water table is typically high, within 1 m of the surface; the sites are typically flooded for part of the winter and spring. In the east, stands can experience droughty conditions in the summer and fall, while in the south and central portion of its range they can remain saturated for much of the growing season.

Vegetation Characteristics: The vegetation is dominated (60-100% cover) by fine-textured grasses, low sedges, and rushes, with a mixture of forbs. Prairie Cordgrass may form near monocultures in places. The most common species are White Panicle Aster, White Doll's Daisy, Canada Bluejoint, Woolly Sedge, Clustered Field Sedge, Sartwell's Sedge, Upright Sedge, Fowl Bluegrass, and Prairie Cordgrass. Other species that are often present are Indianhemp, Mountain Rush, Prairie Blazing Star, Field Sowthistle, Marsh Hedgenettle, and Canada Germander. In general, this wet prairie type may be distinguished from other wet meadow types because of strong grass dominance (rather than sedge), high forb diversity, and typically mineral soils. Woody plants are scattered to very infrequent.

Range:

Conservation Status: G3 – Vulnerable

Management Considerations: Prairie Cordgrass is an early colonizer of suitable habitat and is tolerant of sediment deposition. Stands of Prairie Cordgrass have high production rates, however the rough-edged leaves make for poor forage quality, and it is not readily eaten by livestock or wildlife. Its tall height and thick growth provide shade and cover for wildlife and certain bird species (Hansen et al. 1988a).

Iowa NRCS Plant Community Description

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3/18/2009

NORTHERN CORDGRASS WET PRAIRIE

SCIENTIFIC NAME	COMMON NAME	STRATA	FUNCTIONAL GROUP	IA CofC	SEEDS/LB	STATE STATUS
<i>Amorpha fruticosa</i>	Indigo bush, false indigo	Shrub Layer	SUB-SHRUB, LEGUME	5	59200	
<i>Andropogon gerardii</i>	Big bluestem	Herbaceous Layer	P-GRASS, WARM SEASON	4	160000	
<i>Apocynum cannabinum</i>	Indian hemp	Herbaceous Layer	P-FORB	1	500000	
<i>Asclepias speciosa</i>	Showy milkweed	Herbaceous Layer	P-FORB	6	72000	T
<i>Asclepias tuberosa</i>	Butterfly weed	Herbaceous Layer	P-FORB	6	68800	
<i>Baptisia alba</i>	White wild indigo	Herbaceous Layer	P-FORB, LEGUME	6	27200	
<i>Boltonia asteroides</i>	False aster	Herbaceous Layer, Dominant	P-FORB	5	2560000	
<i>Calamagrostis canadensis</i>	Bluejoint	Herbaceous Layer, Dominant	P-GRASS, COOL SEASON	5	4480000	
<i>Calamagrostis stricta</i>	Northern reed grass	Herbaceous Layer	P-GRASS, COOL SEASON	7	2302499	
<i>Carex aquatilis</i>	Water sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	7	795776	
<i>Carex atherodes</i>	Hairy-leaved lake sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	8	464000	
<i>Carex emoryi</i>	Riverbank sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	6		
<i>Carex laeviconica</i>	Long-toothed lake sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	6	192000	
<i>Carex pellita</i>	Wooly sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	4	448000	
<i>Carex praegracilis</i>	Expressway sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	5	1062277	
<i>Carex sartwellii</i>	Running marsh sedge	Herbaceous Layer, Dominant	P-SEDGE, COOL SEASON	7	1014748	
<i>Carex spp.</i>	True Sedges	Herbaceous Layer	SEDGE, COOL SEASON			
<i>Carex stricta</i>	Common tussock sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	6	848000	
<i>Carex vulpinoidea</i>	Brown fox sedge	Herbaceous Layer	P-SEDGE, COOL SEASON	3	1600000	
<i>Cephalanthus occidentalis</i>	Buttonbush	Shrub Layer	SHRUB	6	96000	
<i>Cornus spp.</i>	Dogwood	Shrub Layer	SHRUB			
<i>Crotalaria sagittalis</i>	Rattle box	Herbaceous Layer	A-FORB, LEGUME	6	72000	
<i>Dichanthelium clandestinum</i>	Deertongue grass	Herbaceous Layer	P-GRASS, COOL SEASON	4	350000	
<i>Eleocharis erythropoda</i>	Red-rooted spikerush	Herbaceous Layer	P-SEDGE, COOL SEASON	4		
<i>Epilobium ciliatum</i>	Northern willow herb	Herbaceous Layer	P-FORB	3	960000	
<i>Glycyrrhiza lepidota</i>	Wild licorice	Herbaceous Layer	P-FORB, LEGUME	4	62400	
<i>Helenium autumnale</i>	Sneezeweed	Herbaceous Layer	P-FORB	4	2080000	

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SCIENTIFIC NAME	COMMON NAME	STRATA	FUNCTIONAL GROUP	IA CofC	SEEDS/LB	STATE STATUS
<i>Helianthus grosseserratus</i>	Saw-tooth sunflower	Herbaceous Layer	P-FORB	4	240000	
<i>Helianthus mollis</i>	Downy sunflower	Herbaceous Layer	P-FORB	6	112000	
<i>Heterotheca villosa</i>	Hairy false goldenaster	Herbaceous Layer	P-FORB	5	1120000	SC
<i>Hierochloa odorata</i>	Holy grass	Herbaceous Layer	P-GRASS, COOL SEASON	7	320000	
<i>Hordeum jubatum</i>	Squirrel-tail barley	Herbaceous Layer	P-GRASS, COOL SEASON	0	192000	
<i>Juncus arcticus littoralis</i>	Bog rush	Herbaceous Layer	P-SEDGE, COOL SEASON	6	3000000	
<i>Juncus dudleyi</i>	Dudley's rush	Herbaceous Layer	P-SEDGE, COOL SEASON	2	51200000	
<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>Liatris pycnostachya</i>	Prairie blazing star	Herbaceous Layer	P-FORB	6	176000	
<i>Lytbrum alatum</i>	Winged loosestrife	Herbaceous Layer	P-FORB	3	48000000	
<i>Mentha arvensis</i>	Wild mint	Herbaceous Layer	P-FORB	4	4800000	
<i>Muhlenbergia racemosa</i>	Marsh muhly	Herbaceous Layer	P-GRASS, WARM SEASON	4	1280000	
<i>Panicum virgatum</i>	Switchgrass	Herbaceous Layer	P-GRASS, WARM SEASON	5	224000	
<i>Poa palustris</i>	Foul meadow grass	Herbaceous Layer, Dominant	P-GRASS, COOL SEASON	5	2080000	
<i>Potentilla norvegica</i>	Norwegian cinquefoil	Herbaceous Layer	A-FORB	2		
<i>Pycnanthemum virginianum</i>	Common mountain mint	Herbaceous Layer	P-FORB	4	3520000	
<i>Rudbeckia hirta</i>	Black-eyed Susan	Herbaceous Layer	P-FORB	2	496000	
<i>Rudbeckia subtomentosa</i>	Fragrant coneflower	Herbaceous Layer	P-FORB	4	433600	
<i>Salix spp.</i>	Willow	Shrub Layer				
<i>Schizachyrium scoparium</i>	Little bluestem	Herbaceous Layer	P-GRASS, WARM SEASON	5	240000	
<i>Schoenoplectus americanus/pungens</i>	Threesquare	Herbaceous Layer	P-SEDGE, COOL SEASON	7	192000	
<i>Sorghastrum nutans</i>	Indian grass	Herbaceous Layer	P-GRASS, WARM SEASON	4	192000	
<i>Spartina pectinata</i>	Slough grass, cord grass	Herbaceous Layer, Dominant	P-GRASS, WARM SEASON	4	105600	
<i>Spiranthes cernua</i>	Nodding ladies'-tresses	Herbaceous Layer	P-FORB	4		
<i>Stachys palustris</i>	Woundwort	Herbaceous Layer	P-FORB	4	256000	
<i>Symphotrichum ericoides</i>	Heath aster, frost weed	Herbaceous Layer	P-FORB	3	3200000	

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SCIENTIFIC NAME	COMMON NAME	STRATA	FUNCTIONAL GROUP	IA CofC	SEEDS/LB	STATE STATUS
<i>Symphotrichum lanceolatum</i>	Panicled aster	Herbaceous Layer	P-FORB	4	700000	
<i>Symphotrichum novae-angliae</i>	New England aster	Herbaceous Layer	P-FORB	3	1056000	
<i>Teucrium canadense</i>	American germander	Herbaceous Layer	P-FORB	4	320000	
<i>Thalictrum dasycarpum</i>	Purple meadow-rue	Herbaceous Layer	P-FORB	4	176000	
<i>Tripsacum dactyloides</i>	Gama grass	Herbaceous Layer	P-GRASS, WARM SEASON	3	5920	
<i>Vernonia fasciculata</i>	Ironweed	Herbaceous Layer	P-FORB	1	384000	
<i>Viola sagittata</i>	Arrow-leaved violet	Herbaceous Layer	P-FORB	7		

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NORTHERN CORDGRASS WET PRAIRIE

SCIENTIFIC NAME	COMMON NAME	SEEDS PER LB	SEEDS PER FT ²	% OF MIX	COST PER LB	COST PER FT ²	LBS PER ACRE	CC	FUNCTIONAL GROUP
Agalinis tenuifolia	Slender false foxglove	12,800,000	1.50	3.7%		\$0.0000	0.01	4	A-FORB, HEMIPARASITE
Amorpha fruticosa	Indigo bush, false indigo	59,200	0.30	0.7%		\$0.0000	0.22	5	SUB-SHRUB, LEGUME
Andropogon gerardii	Big bluestem	160,000	1.00	2.5%		\$0.0000	0.27	4	P-GRASS, WARM SEASON
Asclepias speciosa	Showy milkweed	72,000	0.40	1.0%		\$0.0000	0.24	6	P-FORB
Asclepias tuberosa	Butterfly weed	68,800	0.10	0.2%		\$0.0000	0.06	6	P-FORB
Baptisia alba	White wild indigo	27,200	0.01	0.0%		\$0.0000	0.02	6	P-FORB, LEGUME
Beckmannia syzigachne	American slough grass	800,000	1.75	4.4%		\$0.0000	0.10	8	A-GRASS, COOL SEASON
Epilobium ciliatum	Northern willow herb	960,000	1.15	2.9%		\$0.0000	0.05	3	P-FORB
Calamagrostis canadensis	Bluejoint	4,480,000	1.75	4.4%		\$0.0000	0.02	5	P-GRASS, COOL SEASON
Carex atherodes	Hairy-leaved lake sedge	464,000	0.35	0.9%		\$0.0000	0.03	8	P-SEDGE, COOL SEASON
Carex stricta	Upright sedge	848,000	0.60	1.5%		\$0.0000	0.03	6	P-SEDGE, COOL SEASON
Carex laeviconica	Smoothcone sedge	192,000	0.50	1.2%		\$0.0000	0.11	6	P-SEDGE, COOL SEASON
Carex pellita	Wooly sedge	448,000	0.25	0.6%		\$0.0000	0.02	4	P-SEDGE, COOL SEASON
Carex scoparia	Lance-fruited oval sedge	1,344,000	1.60	4.0%		\$0.0000	0.05	5	P-SEDGE, COOL SEASON
Carex vulpinoidea	Brown fox sedge	1,600,000	1.60	4.0%		\$0.0000	0.04	3	P-SEDGE, COOL SEASON
Cephalanthus occidentalis	Buttonbush	96,000	0.01	0.0%		\$0.0000	0.00	6	SHRUB
Chelone glabra	White turtlehead	1,472,000	1.20	3.0%		\$0.0000	0.04	8	P-FORB
Helenium autumnale	Sneezeweed	2,080,000	1.25	3.1%		\$0.0000	0.03	4	P-FORB
Glycyrrhiza lepidota	Wild Licorice	62,400	0.10	0.2%		\$0.0000	0.07	4	P-FORB
Helianthus grosseserratus	Saw-tooth sunflower	240,000	0.20	0.5%		\$0.0000	0.04	4	P-FORB
Helianthus mollis	Downy sunflower	112,000	0.20	0.5%		\$0.0000	0.08	6	P-FORB
Heterotheca villosa	Hairy false goldenaster	1,120,000	1.30	3.2%		\$0.0000	0.05	5	P-FORB
Schoenoplectus pungens	Comon threesquare	192,000	0.30	0.7%		\$0.0000	0.07	7	P-SEDGE, COOL SEASON
Juncus dudleyi	Dudley's rush	51,200,000	1.75	4.4%		\$0.0000	0.00	2	P-SEDGE, COOL SEASON
Hierochloa odorata	Sweetgrass	320,000	0.05	0.1%		\$0.0000	0.01	7	P-GRASS, COOL SEASON
Eleocharis acicularis	Needle spikerush	1,120,000	1.25	3.1%		\$0.0000	0.05	3	P-SEDGE, COOL SEASON
Leersia oryzoides	Rice cut-grass	544,000	1.25	3.1%		\$0.0000	0.10	2	P-GRASS, COOL SEASON
Liatris pycnostachya	Prairie blazing star	176,000	0.80	2.0%		\$0.0000	0.20	6	P-FORB
Mentha arvensis	Wild mint	4,800,000	1.00	2.5%		\$0.0000	0.01	4	P-FORB
Lythrum alatum	Winged loosestrife	48,000,000	1.50	3.7%		\$0.0000	0.00	3	P-FORB
Symphotrichum lanceolatum	Panicled aster	700,000	0.80	2.0%		\$0.0000	0.05	4	P-FORB
Panicum virgatum	Switchgrass	224,000	1.00	2.5%		\$0.0000	0.19	5	P-GRASS, WARM SEASON
Pedicularis lanceolata	Swamp lousewort	704,000	1.50	3.7%		\$0.0000	0.09	7	P-FORB, HEMIPARASITE
Poa palustris	Foul meadow grass	2,080,000	1.75	4.4%		\$0.0000	0.04	5	P-GRASS, COOL SEASON
Pycnanthemum virginianum	Common mountain mint	3,520,000	1.30	3.2%		\$0.0000	0.02	4	P-FORB
Rudbeckia hirta	Black-eyed Susan	496,000	1.14	2.8%		\$0.0000	0.10	2	P-FORB
Muhlenbergia racemosa	Marsh muhly	1,280,000	1.50	3.7%		\$0.0000	0.05	4	P-GRASS, WARM SEASON
Teucrium canadense	American germander	320,000	0.75	1.9%		\$0.0000	0.10	4	P-FORB
Sorghastrum nutans	Indian grass	192,000	1.00	2.5%		\$0.0000	0.23	4	P-GRASS, WARM SEASON
Spartina pectinata	Slough grass, cord grass	105,600	0.60	1.5%		\$0.0000	0.25	4	P-GRASS, WARM SEASON
Stachys palustris	Woundwort	256,000	0.20	0.5%		\$0.0000	0.03	4	P-FORB
Symphotrichum ericoides	Heath aster, frost weed	3,200,000	1.00	2.5%		\$0.0000	0.01	3	P-FORB
Symphotrichum novae-angliae	New England aster	1,056,000	1.10	2.7%		\$0.0000	0.05	3	P-FORB
Thalictrum dasycarpum	Purple meadow-rue	176,000	0.30	0.7%		\$0.0000	0.07	4	P-FORB
Tripsacum dactyloides	Gama grass	5,920	0.15	0.4%		\$0.0000	1.10	3	P-GRASS, WARM SEASON
Vernonia fasciculata	Ironweed	384,000	0.90	2.2%		\$0.0000	0.10	1	P-FORB
				0.0%		#DIV/0!	#DIV/0!		
				0.0%		#DIV/0!	#DIV/0!		
				0.0%		#DIV/0!	#DIV/0!		
				0.0%		#DIV/0!	#DIV/0!		
Graminoid Species	20	Vine Species	0	PLS Seeds/ft²	40.0	Cost/ft²	\$0.00	Floristic Quality Index	31.1
Forbs & Sub-shrubs	25	Tree Species	0	PLS lbs/acre*	4.5	Cost/acre	\$0	Mix Conservatism	4.6
Shrub Species	1	Total Species	46			Cost/lb	\$0.00	Simpson's Evenness	71%
Forb & Sub-shrub Seed/ft²	20.00	Graminoid Seed/ft²	20.00	Shrub Seed/ft²	0.01	Vine Seed/ft²	0.00	Tree Seed/ft²	0.00

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

NORTHERN CORDGRASS WET PRAIRIE

If cell is in red criteria not met. If cell is in orange recommendation not met.	
Percent of Mix	Exceeded the 20% of mix maximum for seeds/ft2
Number of Graminoid Species	Minimum of 10 graminoid species not met
Number of Forbs & Sub-shrubs	Minimum of 20 forb and sub-shrub species not met
Total Number of Species	Minimum of 30 species not met
PLS Seeds/ft2	Minimum of 40 seeds/ft ² not met
Graminoid Seed/ft²	Minimum 20 seeds/ft ² of graminoids not met
Forb & Sub-shrub Seed/ft²	Minimum 20 seeds/ft ² of forbs and sub-shrubs not met
Floristic Quality Index (FQI)	Floristic quality index is below the required 20.0 minimum.
Mix Conservatism (CC)	Coefficient of Conservatism is below the required 3.0 minimum.
Simpson's Evenness	Evenness (balance) of the mix is below the recommended 70%
Conservatism Guilds:	
Early Successional	Does not fall within the recommended range of 15-33%
Mid-Successional	Does not fall within the recommended range of 45-65%
Late Successional	Does not fall within the recommended range of 15-33%

Evenness Calculation	
Sum of Squares	0.03
Simpson's Evenness:	0.71

Conservatism Guilds	Species	Seed/ft ² % mix
EARLY SUCCESSIONAL (0-3)	11	32.0%
MID SUCCESSIONAL (4-7)	32	59.8%
LATE SUCCESSIONAL (8-10)	3	8.2%
	46	100.0%

Functional Group	Seed/ft ² % mix	Species
A-FORB	3.7%	1
A-GRASS, COOL SEASON	4.4%	1
A-GRASS, WARM SEASON	0.0%	0
A-SEDGE, COOL SEASON	0.0%	0
A-SEDGE, WARM SEASON	0.0%	0
B-FORB	0.0%	0
FERN	0.0%	0
HEMIPARASITE	7.5%	2
H-VINE	0.0%	0
LEGUME	0.8%	2
PARASITIC	0.0%	0
P-FORB	45.5%	23
P-GRASS, COOL SEASON	12.0%	4
P-GRASS, WARM SEASON	13.1%	6
P-SEDGE, COOL SEASON	20.5%	9
P-SEDGE, WARM SEASON	0.0%	0
SHRUB	0.0%	1
SUB-SHRUB	0.7%	1
TREE	0.0%	0
W-VINE	0.0%	0
Number of Functional Groups	10	

Seeding Plan

Page 1 of 2

Name _____
Prepared by _____
Type of Seeding: **Northern Cordgrass Wet Prairie** Acres

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

Seeding Mix Summary

Graminoids	Scientific Name	Common Name	Seeds/Ft2	PLS Lbs / Total PLS	
				Acres	lb
1	Andropogon gerardii	Big bluestem	1.00	0.27	
2	Beckmannia syzigachne	American slough grass	1.75	0.10	
3	Calamagrostis canadensis	Bluejoint	1.75	0.02	
4	Carex atherodes	Hairy-leaved lake sedge	0.35	0.03	
5	Carex laeviconica	Smoothcone sedge	0.50	0.11	
6	Carex pellita	Wooly sedge	0.25	0.02	
7	Carex scoparia	Lance-fruited oval sedge	1.60	0.05	
8	Carex stricta	Upright sedge	0.60	0.03	
9	Carex vulpinoidea	Brown fox sedge	1.60	0.04	
10	Eleocharis acicularis	Needle spikerush	1.25	0.05	
11	Hierochloae odorata	Sweetgrass	0.05	0.01	
12	Juncus dudleyi	Dudley's rush	1.75	0.00	
13	Leersia oryzoides	Rice cut-grass	1.25	0.10	
14	Muhlenbergia racemosa	Marsh muhly	1.50	0.05	
15	Panicum virgatum	Switchgrass	1.00	0.19	
16	Poa palustris	Foul meadow grass	1.75	0.04	
17	Schoenoplectus pungens	Comon threesquare	0.30	0.07	
18	Sorghastrum nutans	Indian grass	1.00	0.23	
19	Spartina pectinata	Slough grass, cord grass	0.60	0.25	
20	Tripsacum dactyloides	Gama grass	0.15	1.10	
21					
SUBTOTAL GRAMINOIDS			20.00	2.767	

Forbs/Legumes/ Shrubs	Scientific Name	Common Name	Seeds/Ft2	PLS Lbs / Total PLS	
				Acres	lb
1	Agalinis tenuifolia	Slender false foxglove	1.50	0.01	
2	Amorpha fruticosa	Indigo bush, false indigo	0.30	0.22	
3	Asclepias speciosa	Showy milkweed	0.40	0.24	
4	Asclepias tuberosa	Butterfly weed	0.10	0.06	
5	Baptisia alba	White wild indigo	0.01	0.02	
6	Cephalanthus occidentalis	Buttonbush	0.01	0.00	
7	Chelone glabra	White turtlehead	1.20	0.04	
8	Epilobium ciliatum	Northern willow herb	1.15	0.05	
9	Glycyrrhiza lepidota	Wild Licorice	0.10	0.07	
10	Helenium autumnale	Sneezeweed	1.25	0.03	
11	Helianthus grosseserratus	Saw-tooth sunflower	0.20	0.04	
12	Helianthus mollis	Downy sunflower	0.20	0.08	
13	Heterotheca villosa	Hairy false goldenaster	1.30	0.05	
14	Liatris pycnostachya	Prairie blazing star	0.80	0.20	
15	Lythrum alatum	Winged loosestrife	1.50	0.00	
16	Mentha arvensis	Wild mint	1.00	0.01	
17	Pedicularis lanceolata	Swamp lousewort	1.50	0.09	
18	Pycnanthemum virginianum	Common mountain mint	1.30	0.02	
19	Rudbeckia hirta	Black-eyed Susan	1.14	0.10	
20	Stachys palustris	Woundwort	0.20	0.03	
21	Symphotrichum ericoides	Heath aster, frost weed	1.00	0.01	
22	Symphotrichum lanceolatum	Panicled aster	0.80	0.05	
23	Symphotrichum novae-angliae	New England aster	1.10	0.05	
24	Teucrium canadense	American germander	0.75	0.10	
25	Thalictrum dasycarpum	Purple meadow-rue	0.30	0.07	
26	Vernonia fasciculata	Ironweed	0.90	0.10	
27					
28					
29					
30					
SUBTOTAL FORBS			20.01	1.739	

Required dominant and codominate species are in bold

TOTAL **40.01** **4.505**

SEEDING MIX FLORISTIC QUALITY VALUES

Average Coefficient of Conservatism	4.6
Floristic Quality Index	31.1

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.