

643 TALLGRASS PRAIRIE

Seed Mix Design

DATE 1/6/2023

LANDOWNER

MN 643 Tallgrass Wet 2023

N/A

Tract / Field

COPY TO SEEDING PLAN

Copy to Checkout_C

PLANNER

Pheasants Forever

N/A 0.00

Acres To Seed 1.00

Seed tag type

Background Information

GRASS SPECIES	Input desired PLS	N/A	N/A	PLANNED % OF GRASS COMPONENT BY SEEDS/SQ. FOOT	Planned PLS/ Acre in lbs.	TOTAL SEEDS/ SQ. FOOT	% OF GRASS MIX BY SEEDS/FT 1/		SEEDS/ SQ. FOOT At 1 lb. Rate	COC Selected	COC Reference 6/	Pounds PLS
				Planned			Can't Exceed	Planned %				
WARM SEASON 7/												
Big Bluestem	1.25			0 to 25	1.25	5.05	24.6	OK	176000	4.0	4	1.25
Blue Grama				0 to 20	0.00	0.00	0.0	OK	750000	17.2	8	0.00
Indiangrass	1.15			0 to 25	1.15	5.10	24.8	OK	193000	4.4	4	1.15
Little Bluestem	0.9			0 to 30	0.90	5.91	28.8	OK	286000	6.6	5	0.90
Prairie Cordgrass				0 to 5	0.00	0.00	0.0	OK	183000	4.2	4	0.00
Prairie Dropseed				0 to 10	0.00	0.00	0.0	OK	224000	5.1	9	0.00
Prairie Sandreed				0 to 30	0.00	0.00	0.0	OK	275000	6.3	7	0.00
Rough Dropseed				0 to 10	0.00	0.00	0.0	OK	480000	11.0	9	0.00
Sideoats Grama				0 to 30	0.00	0.00	0.0	OK	180000	4.1	6	0.00
Switchgrass	0.12			0 to 5	0.12	1.07	5.2	OK	390000	9.0	5	0.12
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
COOL SEASON 2/ 7/												
Canada Bluejoint				0 to 5	0.00	0.00	0.0	OK	4480000	102.8	5	0.00
Canada Wildrye				0 to 10	0.00	0.00	0.0	OK	115000	2.6	5	0.00
Green Needlegrass				0 to 10	0.00	0.00	0.0	OK	180000	4.1	5	0.00
June grass				0 to 5	0.00	0.00	0.0	OK	2315000	53.1	7	0.00
Kalms Brome				0 to 10	0.00	0.00	0.0	OK	128000	2.9	5	0.00
Porcupine grass				0 to 10	0.00	0.00	0.0	OK	57000	1.3	6	0.00
Slender Wheatgrass	0.4			0 to 10	0.40	1.42	6.9	OK	155000	3.6	5	0.40
Virginia Wildrye	0.9			0 to 10	0.90	1.98	9.7	OK	96000	2.2	3	0.90
Western Wheatgrass				0 to 10	0.00	0.00	0.0	OK	112000	2.6	2	0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
				0 to 10	0.00	0.00	0.0	OK		0.0		0.00
TOTAL Pounds PLS					4.72	20.54	100.0		AVE COC GRASS	4.3		

1/ ACTUAL SEEDS PER SQUARE FOOT SHALL BE WITHIN THE RANGE SPECIFIED IN PLANNED CONDITION

2/ NO MORE THAN 20% OF THE MIXTURE SHALL BE COMPRISED OF COOL SEASON GRASSES BASED ON SEEDS PER SQUARE FOOT.

													Background Information			
FORB SPECIES	Input desired PLS	N/A	N/A		Planned PLS/ Acre in ounces.	TOTAL SEEDS/ SQ. FOOT	% OF FORB MIX BY SEEDS/FT 3/		SEEDS/oz	SEEDS/ SQ. FOOT At 1 oz/ac Rate	COC Selected	COC Reference	Pollinator Monarch Preferred (Blue)	Ounces PLS		
DRY																
Bush Clover					0.00	0.00	0.0	OK	8000	0.18		3	Late	0.00		
Culvers Root					0.00	0.00	0.0	OK	800000	18.37		5	Mid	0.00		
Dotted Blazingstar					0.00	0.00	0.0	OK	7000	0.16		8	Mid	0.00		
Purple Coneflower, Narrow Leaved					0.00	0.00	0.0	OK	7000	0.16		8	Mid	0.00		
Prairie Cinquefoil					0.00	0.00	0.0	OK	230000	5.28		8	Late	0.00		
Showy Penstemon					0.00	0.00	0.0	OK	14000	0.32		5	Early	0.00		
Stiff Sunflower					0.00	0.00	0.0	OK	4000	0.09		5	Mid	0.00		
Silky Aster					0.00	0.00	0.0	OK	26000	0.60		10	Late	0.00		
DRY to MESIC																
Butterfly Weed					0.00	0.00	0.0	OK	4300	0.10		6	Mid	0.00		
Canada Milkvetch				Legume	0.00	0.00	0.0	OK	17000	0.39		4	Mid	0.00		
Compass Plant					0.00	0.00	0.0	OK	660	0.02		7	Mid	0.00		
Evening Primrose					0.00	0.00	0.0	OK	90000	2.07		4	Mid	0.00		
Foxglove Beardtongue					0.00	0.00	0.0	OK	130000	2.98		5	Early	0.00		
Heart-leaved Alexander					0.00	0.00	0.0	OK	12000	0.28		8	Early	0.00		
Heath Aster					0.00	0.00	0.0	OK	200000	4.59		3	Late	0.00		
Hoary Vervain					0.00	0.00	0.0	OK	28000	0.64		1	Mid	0.00		
Lance-leaved Coreopsis					0.00	0.00	0.0	OK	20000	0.46		5	Early	0.00		
Leadplant				Legume	0.00	0.00	0.0	OK	16000	0.37		8	Mid	0.00		
Long -headed Coneflower					0.00	0.00	0.0	OK	42000	0.96		5	Mid	0.00		
Ontario Blazingstar					0.00	0.00	0.0	OK	14000	0.32		8	Late	0.00		
Prairie Smoke					0.00	0.00	0.0	OK	27000	0.62		8	Early	0.00		
Rough Blazingstar					0.00	0.00	0.0	OK	16000	0.37		8	Late	0.00		
Showy Goldenrod					0.00	0.00	0.0	OK	95000	2.18		7	Late	0.00		
Smooth Aster					0.00	0.00	0.0	OK	55000	1.26		7	Late	0.00		
Spotted Beebalm					0.00	0.00	0.0	OK	70000	1.61		6	Mid	0.00		
Stiff Tickseed					0.00	0.00	0.0	OK	10000	0.23		7	Mid	0.00		
Thimbleweed					0.00	0.00	0.0	OK	26000	0.60		7	Mid	0.00		
Whorled Milkweed					0.00	0.00	0.0	OK	11000	0.25		4	Mid-Late	0.00		
Wild Blue Phlox					0.00	0.00	0.0	OK	12500	0.29		7	Early	0.00		
Wild Columbine					0.00	0.00	0.0	OK	38000	0.87		6	Early	0.00		
MESIC to WET																
Blanketflower					0.00	0.00	0.0	OK	9813	0.23		2	Mid	0.00		
Canada Tick Trefoil	0.8			Legume	0.80	0.10	0.7	OK	5500	0.13	6	6	Mid	0.80		
Common Ox-eye	0.8				0.80	0.12	0.8	OK	6300	0.14	4	4	Mid	0.80		
Giant Sunflower					0.00	0.00	0.0	OK	10000	0.23		5	Late	0.00		
Golden Alexanders	0.4				0.40	0.10	0.7	OK	11000	0.25	6	6	Early	0.40		
Great Blue Lobelia	0.24				0.24	2.75	19.0	OK	500000	11.48	3	3	Late	0.24		
Ironweed					0.00	0.00	0.0	OK	24000	0.55		3	Late	0.00		
Meadow Blazingstar					0.00	0.00	0.0	OK	11000	0.25		8	Late	0.00		
Mountain Mint	0.05				0.05	0.25	1.7	OK	220000	5.05	8	8	Mid	0.05		
Partridge Pea	2.72			Legume	2.72	0.17	1.2	OK	2700	0.06	1	1	Mid	2.72		
Rattlesnake Master					0.00	0.00	0.0	OK	7500	0.17		8	Mid	0.00		
Sawtooth Sunflower					0.00	0.00	0.0	OK	10000	0.23		4	Late	0.00		
Tall Blazingstar					0.00	0.00	0.0	OK	11000	0.25		6	Mid	0.00		
Virginia Bluebells					0.00	0.00	0.0	OK	9700	0.22		6	Early	0.00		
Wild Bergamot	1				1.00	1.61	11.1	OK	70000	1.61	2	2	Mid	1.00		
Yellow Coneflower	0.8				0.80	0.55	3.8	OK	30000	0.69	4	4	Mid	0.80		
WET																
Blue Vervain	1.28				1.28	2.73	18.9	OK	93000	2.13	3	3	Mid	1.28		
Boneset					0.00	0.00	0.0	OK	160000	3.67		6	Late	0.00		
Cup Plant					0.00	0.00	0.0	OK	1400	0.03		1	Mid	0.00		
Joe-pye Weed	0.08				0.08	0.17	1.2	OK	95000	2.18	5	5	Mid	0.08		

New England Aster					0.00	0.00	0.0	OK	66000	1.52		3	Late	0.00
Panicled Aster					0.00	0.00	0.0	OK	156000	3.58		4	Late	0.00
Sneezeweed	0.6				0.60	1.79	12.4	OK	130000	2.98	4	4	Late	0.60
Swamp Milkweed	0.5				0.50	0.06	0.4	OK	4800	0.11	4	4	Mid	0.50
DRY to WET														
Anise Hyssop					0.00	0.00	0.0	OK	91000	2.09		4	Mid	0.00
Black-eyed Susan	1.41				1.41	2.98	20.6	OK	92000	2.11	2	2	Late	1.41
Common Milkweed					0.00	0.00	0.0	OK	4000	0.09		1	Mid	0.00
Grassleaved Goldenrod					0.00	0.00	0.0	OK	350000	8.03		4	Mid	0.00
Illinois Bundleflower	3				3.00	0.29	2.0	OK	4200	0.10	4	4	Mid	3.00
Purple Prairie Clover	1.5			Legume	1.50	0.62	4.3	OK	18000	0.41	8	8	Mid	1.50
Maximillian Sunflower	0.4				0.40	0.12	0.8	OK	13000	0.30	4	4	Late	0.40
Stiff Goldenrod	0.08				0.08	0.08	0.5	OK	41000	0.94	4	4	Late	0.08
White Prairie Clover				Legume	0.00	0.00	0.0	OK	19000	0.44		10	Mid	0.00
Yarrow					0.00	0.00	0.0	OK	180000	4.13		1	Mid	0.00
Yellow Giant Hyssop					0.00	0.00	0.0	OK	91000	2.09		4	Late	0.00
ADDITIONAL														
neely					0.00	0.00	0.0	OK	9100	0.21				0.00
					0.00	0.00	0.0	OK	9100	0.21				0.00
					0.00	0.00	0.0	OK	9100	0.21				0.00
					0.00	0.00	0.0	OK	9100	0.21				0.00
					0.00	0.00	0.0	OK	9100	0.21				0.00
TOTAL OUNCES PLS					15.66	14.49	100.0		AVE COC FORB		4.2			

TOTAL SEEDS/FT 4/
 PERCENT GRASS 5/
 PERCENT FLOWER
 AVE. COC - MIX
 SPECIES RICHNESS

35.0
58.64
41.36
4.3
23

- 3/ Individual species not to exceed 20% of the forb component by seeds/ft
 OK 4/ Minimum 35-40 seeds/square foot
 OK 5/ Maximum 60% grasses
 OK 6/ Assignment of Coefficients

0 to 3 : Plants with a high range of ecological tolerances/found in a variety of plant communities
 4 to 6 : Plants with an intermediate range of ecological tolerances/ associated with a specific plant community
 7 to 8 : Plants with a poor range of ecological tolerances/associated with advanced successional stage
 9 to 10 : Plants with a high degree of fidelity to a narrow range of pristine habitats

7/ Consult with the appropriate NRCS Area Resource Conservationist or Biologist for prior approval of additional species.