Covers CP2,4D,23,28,29,30,37,38,43

327 CONSERVATION COVER-OR 420 Wildlife - NATIVE GRASS/FORBS

Seed Mix Design

DATE 11/3/2026

Copy to Seeding Plan

N/A

LANDOWNER MN 327 Milestone Tolerant

N/A 0.00

TRACT/FIELD

PLANNER PF

Acres To Seed 1.00

Seed tag type Seed Mix Design

Set Seed Tag Type to Seed Mix Design

Scientific Name	GRASS SPECIES	REF #	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/			Background Information: Seeds per lb.	Background Information: SEEDS/ SQ. FOOT At 1 lb. Rate	COC Selected
						Planned			Can't Exceed	Planned %				
	WARM SEASON 7/													
Andropogon gerardii	Big bluestem	1	0.8			0 to 25	0.80	3.23	11.2	OK		176000	4.0	
Bouteloua gracilis	Blue grama	3	0.35			0 to 20	0.35	6.03	20.9	OK		750000	17.2	
Sorghastrum nutans	Indiangrass	7	0.4			0 to 25	0.40	1.77	6.1	OK		193000	4.4	
Schizachyrium scoparium	Little bluestem	6	0.5			0 to 30	0.50	3.28	11.4	OK		286000	6.6	
Spartina pectinata	Prairie cordgrass	8				0 to 5	0.00	0.00	0.0	OK		183000	4.2	
Sporobolus heterolepis	Prairie dropseed	10				0 to 10	0.00	0.00	0.0	OK		224000	5.1	
Calamovilfa longifolia	Prairie sandreed	4				0 to 30	0.00	0.00	0.0	OK		275000	6.3	
Sporobolus compositus	Rough dropseed	9	0.25			0 to 10	0.25	2.75	9.5	OK		480000	11.0	0
Bouteloua curtipendula	Side oats grama	2	1			0 to 30	1.00	4.13	14.3	OK		180000	4.1	0
Panicum virgatum	Switchgrass	5	0.35			0 to 10	0.35	3.13	10.9	OK		390000	9.0	0
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
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	COOL SEASON 2/ 7/													
Calamagrostis canadensis	Canada bluejoint	13				0 to 5	0.00	0.00	0.0	OK		4480000	102.8	
Elymus canadensis	Canada wild rye	14				0 to 10	0.00	0.00	0.0	OK		115000	2.6	
Nassella viridula	Green needlegrass	21	0.41			0 to 10	0.41	1.69	5.9	OK		180000	4.1	0
Koeleria macrantha	Junegrass	20				0 to 5	0.00	0.00	0.0	OK		2315000	53.1	
Bromus kalmii	Kalms brome	12				0 to 10	0.00	0.00	0.0	OK		128000	2.9	
Hesperostipa spartea	Porcupine grass	19				0 to 10	0.00	0.00	0.0	OK		57000	1.3	
Elymus trachcaulus	Slender wheatgrass	15	0.8			0 to 10	0.80	2.85	9.9	OK		155000	3.6	0
Elymus virginicus	Virginia wild rye	16				0 to 10	0.00	0.00	0.0	OK		96000	2.2	
Pascopyrum smithii	Western wheatgrass	22				0 to 10	0.00	0.00	0.0	OK		112000	2.6	
Bromus ciliatus	Fringed brome	11				0 to 10	0.00	0.00	0.0	OK		160000	3.7	
Glyceria grandis	American mannagrass	17				0 to 10	0.00	0.00	0.0	OK		1280000	29.4	
Glyceria striata	Fowl mannagrass	18				0 to 10	0.00	0.00	0.0	OK		2561328	58.8	
Carex bicknellii	Bicknell's sedge	23				0 to 10	0.00	0.00	0.0	OK		560000	12.9	
Carex vulpinoidea	Common fox sedge	27				0 to 10	0.00	0.00	0.0	OK		1598652	36.7	
Carex scoparia	Pointed broom sedge	25				0 to 10	0.00	0.00	0.0	OK		1346000	30.9	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	
Set Ref num to 199	If no species entered this row	199				0	0.00	0.00	0.0	OK		0	0.0	

			0		TOTAL Pounds PLS	4.86	28.88	100.0	AVE COC GRASS	0.0

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		
Scientific Name	FORB SPECIES	REF #	Input Desired PLS	N/A	N/A		Planned PLS/ Acre in ounces.	TOTAL SEEDS/ SQ. FOOT	% OF FORB MIX BY SEEDS/FT 3/		% of mix by WEIGHT	SEEDS/oz	SEEDS/ SQ. FOOT At 1 oz/ac Rate	COC Selected
	DRY													
Lespedeza capitata	Bush clover	57					**0.00**	0.00	0.0	OK	0.0	8000	0.18	
Veronicastrum virginicum	Culver's root	103					**0.00**	0.00	0.0	OK	0.0	800000	18.37	
Liatris punctata	Dotted blazing star	30					**0.00**	0.00	0.0	OK	0.0	7000	0.16	
Echinacea angustifolia	Purple Coneflower - Narrow	53					**0.00**	0.00	0.0	OK	0.0	7000	0.16	
Drymocallis arguta	Prairie cinquefoil	52	**0.1**				**0.10**	0.53	8.5	OK	1.7	230000	5.28	0
Penstemon grandiflorus	Large-flowered penstemon (SI	32					**0.00**	0.00	0.0	OK	0.0	14000	0.32	
Helianthus pauciflorus	Stiff sunflower	55					**0.00**	0.00	0.0	OK	0.0	4000	0.09	
Symphyotrichum sericeum	Silky aster	33					**0.00**	0.00	0.0	OK	0.0	26000	0.60	
	DRY to MESIC													
Asclepias tuberosa	Butterfly weed	42					**0.00**	0.00	0.0	OK	0.0	4300	0.10	
Astragalus canadensis	Canada milkvetch	44	**0.48**			Legume	**0.48**	0.19	3.0	OK	8.2	17000	0.39	0
Silphium laciniatum	Compass plant	67					**0.00**	0.00	0.0	OK	0.0	660	0.02	
Oenothera biennis	Evening primrose	117					**0.00**	0.00	0.0	OK	0.0	90000	2.07	
Penstemon digitalis	Foxglove Beardtongue	62					**0.00**	0.00	0.0	OK	0.0	130000	2.98	
Zizia aptera	Heart-leaved alexander	76					**0.00**	0.00	0.0	OK	0.0	12000	0.28	
Symphyotrichum ericoides	Heath aster	121					**0.00**	0.00	0.0	OK	0.0	200000	4.59	
Verbena stricta	Hoary vervain	74	**0.24**				**0.24**	0.15	2.5	OK	4.1	28000	0.64	0
Coreopsis lanceolata	Lance-leaved coreopsis	48					**0.00**	0.00	0.0	OK	0.0	20000	0.46	
Amorpha canescens	Leadplant	37	**0.16**			Legume	**0.16**	0.06	0.9	OK	2.7	16000	0.37	0
Ratibida columnifera	Long-headed coneflower	64					**0.00**	0.00	0.0	OK	0.0	42000	0.96	
Liatris cylindracea	Ontario blazing star	29					**0.00**	0.00	0.0	OK	0.0	14000	0.32	
Geum triflorum	Prairie smoke	54					**0.00**	0.00	0.0	OK	0.0	27000	0.62	
Liatris aspera	Rough blazing star	58					**0.00**	0.00	0.0	OK	0.0	16000	0.37	
Solidago speciosa	Showy goldenrod	69					**0.00**	0.00	0.0	OK	0.0	95000	2.18	
Symphyotrichum laeve	Smooth aster	70					**0.00**	0.00	0.0	OK	0.0	55000	1.26	
Monarda punctata	Spotted beebalm	60					**0.00**	0.00	0.0	OK	0.0	70000	1.61	
Coreopsis palmata	Stiff stickseed	49					**0.00**	0.00	0.0	OK	0.0	10000	0.23	
Anemone cylindrica	Thimbleweed	38					**0.00**	0.00	0.0	OK	0.0	26000	0.60	
Asclepias verticillata	Whorled milkweed	43					**0.00**	0.00	0.0	OK	0.0	11000	0.25	
Aquilegia canadensis	Wild columbine	39					**0.00**	0.00	0.0	OK	0.0	38000	0.87	
	MESIC to WET													
Ratibida pinnata	Yellow coneflower	65					**0.00**	0.00	0.0	OK	0.0	30000	0.69	
Desmodium canadense	Canada tick trefoil	79				Legume	**0.00**	0.00	0.0	OK	0.0	5500	0.13	
Heliopsis helianthoides	Common oxeye	86	**1**				**1.00**	0.14	2.3	OK	17.2	6300	0.14	0
Helianthus giganteus	Giant sunflower	84					**0.00**	0.00	0.0	OK	0.0	10000	0.23	
Zizia aurea	Golden Alexander	104	**0.5**				**0.50**	0.13	2.0	OK	8.6	11000	0.25	0
Lobelia siphilitica	Great blue lobelia	91					**0.00**	0.00	0.0	OK	0.0	500000	11.48	
Vernonia fasciculata	Ironweed	102					**0.00**	0.00	0.0	OK	0.0	24000	0.55	
Liatris ligulistylis	Meadow blazing star	89					**0.00**	0.00	0.0	OK	0.0	11000	0.25	
Pycnanthemum virginianum	Mountain mint	97					**0.00**	0.00	0.0	OK	0.0	220000	5.05	
Chamaecrista fasiculata	Partridge pea	46				Legume	**0.00**	0.00	0.0	OK	0.0	2700	0.06	
Eryngium yuccifolium	Rattlesnake master	81					**0.00**	0.00	0.0	OK	0.0	7500	0.17	
Helianthus grosseserratus	Sawtooth sunflower	85					**0.00**	0.00	0.0	OK	0.0	10000	0.23	
Liatris pycnostachya	Tall blazing star	90					**0.00**	0.00	0.0	OK	0.0	11000	0.25	
	WET													
Verbena hastata	Blue vervain	101	**0.65**				**0.65**	1.39	22.3	OK	11.1	93000	2.13	0
Eupatorium perfoliatum	Boneset	105					**0.00**	0.00	0.0	OK	0.0	160000	3.67	
Silphium perfoliatum	Cup plant	110					**0.00**	0.00	0.0	OK	0.0	1400	0.03	
Eutrochium maculatum	Joe pye weed	106					**0.00**	0.00	0.0	OK	0.0	95000	2.18	
Symphyotrichum novae-ang	New England aster	99					**0.00**	0.00	0.0	OK	0.0	66000	1.52	
Symphyotrichum lanceolatu	Panicled aster	111					**0.00**	0.00	0.0	OK	0.0	156000	3.58	
Helenium autumnale	Sneezeweed	107					**0.00**	0.00	0.0	OK	0.0	130000	2.98	

Asclepias incarnata	Swamp milkweed	78				**0.00**	0.00	0.0	OK	0.0	4800	0.11	
	DRY to WET													
Agastache foeniculum	Anise hyssop	35				**0.00**	0.00	0.0	OK	0.0	91000	2.09	
Rudbeckia hirta	Black-eyed susan	120	**1**			**1.00**	2.11	33.9	OK	17.2	92000	2.11	0
Asclepias syriaca	Common milkweed	112	**0.4**			**0.40**	0.04	0.6	OK	6.9	4000	0.09	0
Euthamia graminifolia	Grass-leaved goldenrod	82				**0.00**	0.00	0.0	OK	0.0	350000	8.03	
Achillea millefolium	Yarrow	34				**0.00**	0.00	0.0	OK	0.0	180000	4.13	
Dalea purpurea	Purple prairie clover	51	**0.5**		Legume	**0.50**	0.21	3.3	OK	8.6	18000	0.41	0
Helianthus maximiliani	Maximilian sunflower	116				**0.00**	0.00	0.0	OK	0.0	13000	0.30	
Oligoneuron rigidum	Stiff goldenrod	118				**0.00**	0.00	0.0	OK	0.0	41000	0.94	
Dalea candida	White prairie clover	50				**0.00**	0.00	0.0	OK	0.0	19000	0.44	
Monarda fistulosa	Wild bergamot	94	**0.8**		Legume	**0.80**	1.29	20.6	OK	13.7	70000	1.61	0
	ADDITIONAL APPROVED FORBS 7/												
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Set Ref num to 199	If no species entered this row	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
				0	**TOTAL OUNCES PLS**	**5.83**	**6.23**	**100.0**		**100.0**		**AVE COC FORB**	0.0

TOTAL SEEDS/FT 4/	**35.1**	OK
PERCENT GRASS 5/	**82.26**	OK
PERCENT FLOWER	**17.74**	OK

3/ Individual species not to exceed 50% of the forb component by seeds/ft

4/ Minimum 35-40 seeds/square foot

5/ Maximum 90% grasses

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 communi

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 o additional species.