

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

327 CONSERVATION COVER-OR 420 Wildlife - NATIVE GRASS/FORBS
Seed Mix Design

LANDOWNER

MN Wildflower Upgrade 2026

N/A

DATE 6/23/2026

PLANNER

PF

N/A

0.00

TRACT/FIELD 1

Acres To Seed 1.00

Seed tag type

Seed Mix Design

Set Seed Tag Type to Seed Mix Design

Background

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/		Seeds per lb.
						Planned			Can't Exceed	Planned %	
WARM SEASON 7/											
Andropogon gerardii	Big bluestem	1				0 to 30	0.00	0.00	#DIV/0!	#DIV/0!	176000
Bouteloua gracilis	Blue grama	3				0 to 20	0.00	0.00	#DIV/0!	#DIV/0!	750000
Sorghastrum nutans	Indiangrass	7				0 to 30	0.00	0.00	#DIV/0!	#DIV/0!	193000
Schizachyrium scoparium	Little bluestem	6				0 to 30	0.00	0.00	#DIV/0!	#DIV/0!	286000
Spartina pectinata	Prairie cordgrass	8				0 to 5	0.00	0.00	#DIV/0!	#DIV/0!	183000
Sporobolus heterolepis	Prairie dropseed	10				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	224000
Calamovilfa longifolia	Prairie sandreed	4				0 to 30	0.00	0.00	#DIV/0!	#DIV/0!	275000
Sporobolus compositus	Rough dropseed	9				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	480000
Bouteloua curtipendula	Side oats grama	2				0 to 30	0.00	0.00	#DIV/0!	#DIV/0!	180000
Panicum virgatum	Switchgrass	5				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	390000
Blank	blank	199				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
COOL SEASON 2/ 7/											
Calamagrostis canadensis	Canada bluejoint	13				0 to 5	0.00	0.00	#DIV/0!	#DIV/0!	4480000
Elymus canadensis	Canada wild rye	14				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	115000
Nassella viridula	Green needlegrass	21				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	180000
Koeleria macrantha	Junegrass	20				0 to 5	0.00	0.00	#DIV/0!	#DIV/0!	2315000
Bromus kalmii	Kalms brome	12				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	128000
Hesperostipa spartea	Porcupine grass	19				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	57000
Elymus trachcaulus	Slender wheatgrass	15				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	155000
Elymus virginicus	Virginia wild rye	16				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	96000
Pascopyrum smithii	Western wheatgrass	22				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	112000
Bromus ciliatus	Fringed brome	11				0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	160000

Glyceria grandis	American mannagrass	17			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	1280000
Glyceria striata	Fowl mannagrass	18			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	2561328
Carex bicknellii	Bicknell's sedge	23			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	560000
Carex vulpinoidea	Common fox sedge	27			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	1598652
Carex scoparia	Pointed broom sedge	25			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	1346000
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
Blank	blank	199			0 to 10	0.00	0.00	#DIV/0!	#DIV/0!	0
			0		TOTAL Pounds PLS	0.00	0.00	#DIV/0!		

#DIV/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.

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
DRY												
Lespedeza capitata	Bush clover	57	0.5				0.50	0.09	1.9	OK	5.1	8000
Veronicastrum virginicum	Culver's root	103	0.01				0.01	0.18	3.7	OK	0.1	800000
Liatris punctata	Dotted blazing star	30					0.00	0.00	0.0	OK	0.0	7000
Echinacea angustifolia	Purple Coneflower - Narrow	53	0.5				0.50	0.08	1.6	OK	5.1	7000
Drymocallis arguta	Prairie cinquefoil	52	0.1				0.10	0.53	10.7	OK	1.0	230000
Penstemon grandiflorus	Large-flowered penstemon (Sf	32	0.1				0.10	0.03	0.7	OK	1.0	14000
Helianthus pauciflorus	Stiff sunflower	55	0.1				0.10	0.01	0.2	OK	1.0	4000
Symphotrichum sericeum	Silky aster	33					0.00	0.00	0.0	OK	0.0	26000
DRY to MESIC												
Asclepias tuberosa	Butterfly weed	42				Legume	0.00	0.00	0.0	OK	0.0	4300
Astragalus canadensis	Canada milkvetch	44				Legume	0.00	0.00	0.0	OK	0.0	17000
Silphium laciniatum	Compass plant	67					0.00	0.00	0.0	OK	0.0	660
Oenothera biennis	Evening primrose	117					0.00	0.00	0.0	OK	0.0	90000
Penstemon digitalis	Foxglove Beardtongue	62					0.00	0.00	0.0	OK	0.0	130000
Zizia aptera	Heart-leaved alexander	76					0.00	0.00	0.0	OK	0.0	12000
Symphotrichum ericoides	Heath aster	121					0.00	0.00	0.0	OK	0.0	200000
Verbena stricta	Hoary vervain	74					0.00	0.00	0.0	OK	0.0	28000
Coreopsis lanceolata	Lance-leaved coreopsis	48				Legume	0.00	0.00	0.0	OK	0.0	20000
Amorpha canescens	Leadplant	37				Legume	0.00	0.00	0.0	OK	0.0	16000
Ratibida columnifera	Long-headed coneflower	64					0.00	0.00	0.0	OK	0.0	42000
Liatris cylindracea	Ontario blazing star	29					0.00	0.00	0.0	OK	0.0	14000
Geum triflorum	Prairie smoke	54					0.00	0.00	0.0	OK	0.0	27000
Liatris aspera	Rough blazing star	58					0.00	0.00	0.0	OK	0.0	16000
Solidago speciosa	Showy goldenrod	69					0.00	0.00	0.0	OK	0.0	95000
Symphotrichum laeve	Smooth aster	70	0.5				0.50	0.63	12.9	OK	5.1	55000
Monarda punctata	Spotted beebalm	60	0.12				0.12	0.19	3.9	OK	1.2	70000
Coreopsis palmata	Stiff stickseed	49					0.00	0.00	0.0	OK	0.0	10000
Anemone cylindrica	Thimbleweed	38					0.00	0.00	0.0	OK	0.0	26000
Asclepias verticillata	Whorled milkweed	43					0.00	0.00	0.0	OK	0.0	11000
Aquilegia canadensis	Wild columbine	39					0.00	0.00	0.0	OK	0.0	38000
MESIC to WET												
Ratibida pinnata	Yellow coneflower	65	0.6			Legume	0.60	0.41	8.4	OK	6.2	30000
Desmodium canadense	Canada tick trefoil	79	1			Legume	1.00	0.13	2.6	OK	10.3	5500
Heliopsis helianthoides	Common oxeye	86					0.00	0.00	0.0	OK	0.0	6300
Helianthus giganteus	Giant sunflower	84					0.00	0.00	0.0	OK	0.0	10000
Zizia aurea	Golden Alexander	104					0.00	0.00	0.0	OK	0.0	11000
Lobelia siphilitica	Great blue lobelia	91					0.00	0.00	0.0	OK	0.0	500000
Vernonia fasciculata	Ironweed	102					0.00	0.00	0.0	OK	0.0	24000
Liatris ligulistylis	Meadow blazing star	89					0.00	0.00	0.0	OK	0.0	11000

Pycnanthemum virginianum	Mountain mint	97				0.00	0.00	0.0	OK	0.0	220000
Chamaecrista fasciculata	Partridge pea	46			Legume	0.00	0.00	0.0	OK	0.0	2700
Eryngium yuccifolium	Rattlesnake master	81	1			1.00	0.17	3.5	OK	10.3	7500
Helianthus grosseserratus	Sawtooth sunflower	85				0.00	0.00	0.0	OK	0.0	10000
Liatis pycnostachya	Tall blazing star	90	0.5			0.50	0.13	2.6	OK	5.1	11000
WET											
Verbena hastata	Blue vervain	101				0.00	0.00	0.0	OK	0.0	93000
Eupatorium perfoliatum	Boneset	105				0.00	0.00	0.0	OK	0.0	160000
Silphium perfoliatum	Cup plant	110	1			1.00	0.03	0.7	OK	10.3	1400
Eutrochium maculatum	Joe pye weed	106				0.00	0.00	0.0	OK	0.0	95000
Symphotrichum novae-ang	New England aster	99	0.31			0.31	0.47	9.6	OK	3.2	66000
Symphotrichum lanceolatum	Panicled aster	111				0.00	0.00	0.0	OK	0.0	156000
Helenium autumnale	Sneezeweed	107				0.00	0.00	0.0	OK	0.0	130000
Asclepias incarnata	Swamp milkweed	78	0.5			0.50	0.06	1.1	OK	5.1	4800
DRY to WET											
Agastache foeniculum	Anise hyssop	35				0.00	0.00	0.0	OK	0.0	91000
Rudbeckia hirta	Black-eyed susan	120				0.00	0.00	0.0	OK	0.0	92000
Asclepias syriaca	Common milkweed	112	0.5			0.50	0.05	0.9	OK	5.1	4000
Euthamia graminifolia	Grass-leaved goldenrod	82				0.00	0.00	0.0	OK	0.0	350000
Achillea millefolium	Yarrow	34	0.16			0.16	0.66	13.5	OK	1.6	180000
Dalea purpurea	Purple prairie clover	51	0.53		Legume	0.53	0.22	4.5	OK	5.4	18000
Helianthus maximiliani	Maximilian sunflower	116				0.00	0.00	0.0	OK	0.0	13000
Oligoneuron rigidum	Stiff goldenrod	118	0.2			0.20	0.19	3.8	OK	2.1	41000
Dalea candida	White prairie clover	50	1.5			1.50	0.65	13.3	OK	15.4	19000
Monarda fistulosa	Wild bergamot	94			Legume	0.00	0.00	0.0	OK	0.0	70000
ADDITIONAL APPROVED FORBS 7/											
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
Blank	blank	199				0.00	0.00	0.0	OK	0.0	0
				0	TOTAL OUNCES PLS	9.73	4.91	100.0		100.0	

TOTAL SEEDS/FT 4/	4.9
PERCENT GRASS 5/	0.00
PERCENT FLOWER	100.00

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