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

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

Seeding Checkout

DATE 11/2/2026

Copy to Seeding Plan

Total Bulk Seed

LANDOWNER MN 327 Wet

Bulk Seed /Ac. 0.00

TRACT/FIELD

PLANNER Pheasants Forever

Acres Seeded 1.00

Seed tag type Tag has a PLS Lbs column

Scientific Name	GRASS SPECIES	REF #	NA	N/A	PLS lbs	PLANNED % OF GRASS COMPONENT BY SEEDS/SQ. FOOT	Applied 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			1.63	0 to 30	**1.63**	6.59	26.2	OK		176000	4.0	
Bouteloua gracilis	Blue grama	3				0 to 20	**0.00**	0.00	0.0	OK		750000	17.2	
Sorghastrum nutans	Indiangrass	7			1.5	0 to 30	**1.50**	6.65	26.4	OK		193000	4.4	
Schizachyrium scoparium	Little bluestem	6			0.5	0 to 30	**0.50**	3.28	13.1	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			0.13	0 to 10	**0.13**	1.43	5.7	OK		480000	11.0	0
Bouteloua curtipendula	Side oats grama	2				0 to 30	**0.00**	0.00	0.0	OK		180000	4.1	
Panicum virgatum	Switchgrass	5			0.29	0 to 10	**0.29**	2.60	10.3	OK		390000	9.0	0
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
	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 to 10	**0.00**	0.00	0.0	OK		180000	4.1	
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			0.7	0 to 10	**0.70**	2.49	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			0.017	0 to 10	**0.02**	1.00	4.0	OK		2561328	58.8	0
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			0.03	0 to 10	**0.03**	1.10	4.4	OK		1598652	36.7	0
Carex scoparia	Pointed broom sedge	25				0 to 10	**0.00**	0.00	0.0	OK		1346000	30.9	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
Blank	blank	199				0 to 10	**0.00**	0.00	0.0	OK		0	0.0	
				0		**TOTAL Pounds PLS**	**4.80**	**25.14**	**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 #	NA	N/A	PLS lbs		Applied 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					0.00	0.00	0.0	OK	0.0	230000	5.28	
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				Legume	0.00	0.00	0.0	OK	0.0	17000	0.39	
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					0.00	0.00	0.0	OK	0.0	28000	0.64	
Coreopsis lanceolata	Lance-leaved coreopsis	48					0.00	0.00	0.0	OK	0.0	20000	0.46	
Amorpha canescens	Leadplant	37				Legume	0.00	0.00	0.0	OK	0.0	16000	0.37	
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			0.0938		1.50	1.03	10.4	OK	16.1	30000	0.69	0
Desmodium canadense	Canada tick trefoil	79			0.0531	Legume	0.85	0.11	1.1	OK	9.1	5500	0.13	0
Heliopsis helianthoides	Common oxeye	86					0.00	0.00	0.0	OK	0.0	6300	0.14	
Helianthus giganteus	Giant sunflower	84					0.00	0.00	0.0	OK	0.0	10000	0.23	
Zizia aurea	Golden Alexander	104					0.00	0.00	0.0	OK	0.0	11000	0.25	
Lobelia siphilitica	Great blue lobelia	91			0.0025		0.04	0.46	4.6	OK	0.4	500000	11.48	0
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			0.0906		1.45	0.37	3.7	OK	15.5	11000	0.25	0
	WET													
Verbena hastata	Blue vervain	101			0.025		0.40	0.85	8.6	OK	4.3	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			0.0125		0.20	0.44	4.4	OK	2.1	95000	2.18	0
Symphyotrichum novae-ang	New England aster	99			0.01		0.16	0.24	2.4	OK	1.7	66000	1.52	0
Symphyotrichum lanceolatu	Panicled aster	111					0.00	0.00	0.0	OK	0.0	156000	3.58	
Helenium autumnale	Sneezeweed	107			0.05		0.80	2.39	24.1	OK	8.6	130000	2.98	0

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		0.0063		**0.10**	0.21	2.1	OK	1.1	91000	2.09	0
Rudbeckia hirta	Black-eyed susan	120		0.0563		**0.90**	1.90	19.2	OK	9.6	92000	2.11	0
Asclepias syriaca	Common milkweed	112				**0.00**	0.00	0.0	OK	0.0	4000	0.09	
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		0.0563	Legume	**0.90**	0.37	3.7	OK	9.6	18000	0.41	0
Helianthus maximiliani	Maximilian sunflower	116		0.0438		**0.70**	0.21	2.1	OK	7.5	13000	0.30	0
Oligoneuron rigidum	Stiff goldenrod	118		0.0219		**0.35**	0.33	3.3	OK	3.8	41000	0.94	0
Dalea candida	White prairie clover	50		0.03		**0.48**	0.21	2.1	OK	5.1	19000	0.44	0
Monarda fistulosa	Wild bergamot	94		0.0313	Legume	**0.50**	0.80	8.1	OK	5.4	70000	1.61	0
	ADDITIONAL APPROVED FORBS 7/													
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
Blank	blank	199				**0.00**	0.00	0.0	OK	0.0	0	0.00	
				0	**TOTAL OUNCES PLS**	**9.33**	**9.92**	**100.0**		**100.0**		**AVE COC FORB**	0.0

TOTAL SEEDS/FT 4/	**35.1**	OK
PERCENT GRASS 5/	**71.70**	OK
PERCENT FLOWER	**28.30**	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.

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Copy to Checkout_ Certification

Seed Mix Design
Seeding Checkout

Seed Mix Design
Tag shows purity only as % of mix (purity, germ)
Tag has a PLS Lbs column

COC Reference 6/	Pounds PLS
	1.63
	0.00
	1.50
	0.50
	0.00
	0.00
	0.00
	0.13
	0.00
	0.29
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.70
	0.00
	0.00
	0.00
	0.00
	0.02
	0.00
	0.03
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00

less than 10% of grass total calc

Big B	6.6	
Indian	6.6	
BB add Indian ac switch ac		
Switch	2.6	
3 combined total seeds/ sq foot =	15.8	
Total seeds / sq foot for entire mix =	35.1	
Big Blue, Indian, and switch combined %	45.154	

#N/A
Big bluestem
Blue grama
Indiangrass
Little bluestem
Prairie cordgrass
Prairie dropseed
Prairie sandreed
Rough dropseed
Side oats grama
Switchgrass
blank
blank
blank
blank
blank
blank
#N/A
Canada bluejoint
Canada wild rye
Green needlegrass
Junegrass
Kalms brome
Porcupine grass
Slender wheatgrass
Virginia wild rye
Western wheatgrass
Fringed brome
American mannagrass
Fowl mannagrass
Bicknell's sedge
Common fox sedge
Pointed broom sedge
blank
blank
blank
blank
blank
blank
blank
blank
#N/A
#N/A

#N/A
#N/A
#N/A
#N/A
#N/A

COC Reference	Bloom Period Early = April-June Mid = June-Augus Late = August-Oct.	Ounces PLS	
			#N/A
	Mid	0.00	Bush clover
	Mid	0.00	Culver's root
	Mid	0.00	Dotted blazing star
	Mid	0.00	Purple Coneflower - Na
	Mid	0.00	Prairie cinquefoil
	Early	0.00	Large-flowered penste
	Late	0.00	Stiff sunflower
	Late	0.00	Silky aster
			#N/A
	Mid	0.00	Butterfly weed
	Mid	0.00	Canada milkvetch
	Mid	0.00	Compass plant
	Mid	0.00	Evening primrose
	Early	0.00	Foxglove Beardtongue
	Early	0.00	Heart-leaved alexande
	Late	0.00	Heath aster
	Mid	0.00	Hoary vervain
	Early	0.00	Lance-leaved coreopsi
	Mid	0.00	Leadplant
	Mid	0.00	Long-headed coneflow
	Late	0.00	Ontario blazing star
	Early	0.00	Prairie smoke
	Late	0.00	Rough blazing star
	Late	0.00	Showy goldenrod
	Late	0.00	Smooth aster
	Mid	0.00	Spotted beebalm
	Mid	0.00	Stiff stickseed
	Early	0.00	Thimbleweed
	Mid	0.00	Whorled milkweed
	Early	0.00	Wild columbine
			#N/A
	Mid	0.00	Yellow coneflower
	Mid	0.85	Canada tick trefoil
	Mid	0.00	Common oxeye
	Late	0.00	Giant sunflower
	Early	0.00	Golden Alexander
	Late	0.04	Great blue lobelia
	Late	0.00	Ironweed
	Late	0.00	Meadow blazing star
	Mid	0.00	Mountain mint
	Mid	0.00	Partridge pea
	Mid	0.00	Rattlesnake master
	Late	0.00	Sawtooth sunflower
	Late	1.45	Tall blazing star
			#N/A
	Mid	0.00	Blue vervain
	Late	0.00	Boneset
	Mid	0.00	Cup plant
	Mid	0.00	Joe pye weed
	Late	0.16	New England aster
	Late	0.00	Panicled aster
	Late	0.80	Sneezeweed

	Mid	0.00
	Mid	0.00
	Mid	0.90
	Mid	0.00
	Mid	0.00
	Mid	0.00
	Mid	0.90
	Late	0.70
	Late	0.35
	Mid	0.48
	Mid	0.50
	0	0.00
	0	0.00
	0	0.00
	0	0.00
	0	0.00
	0	0.00
	0	0.00
	0	0.00
	0	0.00
	0	0.00

Swamp milkweed
#N/A
Anise hyssop
Black-eyed susan
Common milkweed
Grass-leaved goldenro
Yarrow
Purple prairie clover
Maximilian sunflower
Stiff goldenrod
White prairie clover
Wild bergamot
#N/A
blank
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of

Cells below are the ones the data is pulled from during copy to seeding plan

TOTAL SEEDS/FT 4/	**35.1**
PERCENT GRASS 5/	**71.7**
PERCENT FLOWER	**28.3**
Big Blue, Indian, Switch	0%

Data Validation for column D		
0	0	0

	Species added warning counter
Andropogon gerardii	0
Bouteloua gracilis	0
Sorghastrum nutans	0
Schizachyrium scoparium	0
Spartina pectinata	0
Sporobolus heterolepis	0
Calamovilfa longifolia	0
Sporobolus compositus	0
Bouteloua curtipendula	0
Panicum virgatum	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
#N/A	0
Calamagrostis canadensis	0
Elymus canadensis	0
Nassella viridula	0
Koeleria macrantha	0
Bromus kalmii	0
Hesperostipa spartea	0
Elymus trachcaulus	0
Elymus virginicus	0
Pascopyrum smithii	0
Bromus ciliatus	0
Glyceria grandis	0
Glyceria striata	0
Carex bicknellii	0
Carex vulpinoidea	0
Carex scoparia	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
#N/A	0
#N/A	0

#N/A	0
#N/A	0
#N/A	0
#N/A	0
#N/A	0

#N/A	0
Botanical name	0
#N/A	0
#N/A	0
#N/A	0
#N/A	0
Lespedeza capitata	0
Veronicastrum virginicum	0
Liatris punctata	0
Echinacea angustifolia	0
Drymocallis arguta	0
Penstemon grandiflorus	0
Helianthus pauciflorus	0
Symphyotrichum sericeum	0
#N/A	0
Asclepias tuberosa	0
Astragalus canadensis	0
Silphium laciniatum	0
Oenothera biennis	0
Penstemon digitalis	0
Zizia aptera	0
Symphyotrichum ericoides	0
Verbena stricta	0
Coreopsis lanceolata	0
Amorpha canescens	0
Ratibida columnifera	0
Liatris cylindracea	0
Geum triflorum	0
Liatris aspera	0
Solidago speciosa	0
Symphyotrichum laeve	0
Monarda punctata	0
Coreopsis palmata	0
Anemone cylindrica	0
Asclepias verticillata	0
Aquilegia canadensis	0
#N/A	0
Ratibida pinnata	0
Desmodium canadense	0
Heliopsis helianthoides	0
Helianthus giganteus	0
Zizia aurea	0
Lobelia siphilitica	0
Vernonia fasciculata	0
Liatris ligulistylis	0
Pycnanthemum virginianum	0
Chamaecrista fasiculata	0
Eryngium yuccifolium	0
Helianthus grosseserratus	0
Liatris pycnostachya	0
#N/A	0
Verbena hastata	0
Eupatorium perfoliatum	0
Silphium perfoliatum	0
Eutrochium maculatum	0
Symphyotrichum novae-angliae	0
Symphyotrichum lanceolatum	0
Helenium autumnale	0

Asclepias incarnata	0
#N/A	0
Agastache foeniculum	0
Rudbeckia hirta	0
Asclepias syriaca	0
Euthamia graminifolia	0
Achillea millefolium	0
Dalea purpurea	0
Helianthus maximiliani	0
Oligoneuron rigidum	0
Dalea candida	0
Monarda fistulosa	0
#N/A	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
Blank	0
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Blank	0

Species added sum counter = 0