

HERBACEOUS PLANTING WORKBOOK

Yellow indicates required entry, blue optional entry.

Section		Township		Range	
Name: Acres: Tract / Field: Date: Address: Planned Use: County: MLRA Design By: Program: Ecological Site: Forage Suitability Group: NRCS Practice: Contract Number: CIN : Planned Establishment Activities Companion Crop, If used: Crop Rate #/Ac. Planned Seeding Date: Seeding Method: Planned Pest Management Activities Notes					

Help to insert an image on
the area above.

For additional planting design information, refer to NRCS Field Office Technical Guide (FOTG), Section 4, for practice specifications and the ND Herbaceous Vegetation Establishment Guide, found in the FOTG, Section I, Reference Subjects.

	(1)	(2)	(2a)	(2b)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Species	Percent Increase of Planned Seeding Rate (101 to 150%)	A / B List	Bloom Period	Seeding Rate PLS Lbs / Acre	Percent in Seed Mix	Planned PLS Lbs / Acre Columns (3) X (4)	Acres to be Seeded	Planned Total PLS Lbs Columns (5) X (6)	Percent Purity or Pure Seed	Percent Germination + % Hard	Total Lbs. Bulk Seed Planted	Total PLS Lbs Seeded (8) X (9) X (10)
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

Total Planned PLS Pounds =

Total Seeded PLS Pounds =

CERTIFICATION:

Seed Tags Available?

Total PLS seeded (col. 11) will be within +/- 10% of planned PLS (col. 7)

☐	Was the planting completed in the required seeding window?	Enter planting date:	
☐	Is the germ test date for all species within 12 months of when it was planted (not including the month of the test)?		
☐	Are the seeded species approved named varieties? If not, document where the seeded species were grown / produced.		
☐	Does the seeded mix match what was planned? If not, are species suitable to the site and meet specifications?		

Notes/Remarks:		Title of Certifying Official - NRCS	Date
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Seed Mix Information for:		Date Prepared:	
Address:			
Phone Number:			
Designed By:			
NRCS Office Phone #:			
Field Information:		Acres to be seeded with this mix:	

Species ¹		Variety ¹	Percent of Mix	Lbs/Acre PLS*	Total Lbs PLS
			0.0%	Total	0.0
Companion Crop:					
Lbs/Acre	= Total	Lbs.			

Notes/comments:

* PLS = Pure Live Seed

Plant only the amount of seed that is noted on the plan, planting too much or too little will not meet NRCS planting specifications and may affect potential cost-share, if available.

Seed germination test needs to be current, within 12 months of planting.

When a specific variety is required, enter the variety in the column above.

1/ Any substitution of planned species or variety must be approved by NRCS.

Use approved, named varieties of grass, forbs and legumes from the following approved sources:

Common grass seed originating from ND, SD, NE, MT, WY, MN, Alberta, Saskatchewan or Manitoba

Common forb and legume seed originating from ND, SD, NE, MT, WA, OR, ID, WI, IA, CO, WY, MN, Alberta, Saskatchewan or Manitoba

Common alfalfa originating from ND, SD, MN, MT, Alberta, Saskatchewan or Manitoba

Planned Seed Mixture Information Worksheet

Producer Signature

Date

Planned Seed Mixture Information Worksheet

North Dakota Pollinator Species List

Specie	Scientific Name	A / B List	Symbol	Growth Characteristics	Growth Habit		Bloom Period	Seeds/ Pound	Seed per SqFt	#PLS / Acre	Shrub	Cover Crop Species
Buckwheat	<i>Fagopyrum esculentum</i>	A			Introduced	Annual	Late	16,000	16	48		1
Canola	<i>Brassica campestris</i> , or <i>Brassica rapa</i>	A			Introduced	Annual	Early	150,000	14	5		1
Chickling Vetch	<i>Lathyrus sativus</i>	A			Introduced	Annual	Mid-season	2,800		50		1
Clover, Berseem	<i>Trifolium alexandrinum</i>	A			Introduced	Annual	Mid-season	200,000	25	4		1
Clover, Crimson	<i>Trifolium incarnatum</i>	A			Introduced	Annual	Mid-season	300,000	20	4		1
Cowpea	<i>Vigna unguiculata</i>	A			Introduced	Annual	Late	4,000	5	50		1
Flax	<i>Linum usitatissimum</i>	A	LIUS		Introduced	Annual	Mid-season	80,000	25	30		1
Horse bean	<i>Vicia faba</i>	A			Introduced	Annual	Mid-season	600		60		1
Lacy Phacelia	<i>Phacelia tanacetifolia</i>	A			Introduced	Annual	Early	245,000	20	0.5		1
Lentil	<i>Lens culinaris</i>	A			Introduced	Annual	Late	10,000		50		1
Mustard, Brown	<i>Brassica juncea</i>	A			Introduced	Annual	Mid-season	240,000	5	1		1
Mustard, Field & Forage Turnips,	<i>Brassica rapa</i>	A			Introduced	Annual	Mid-season	175,000	6	2		1
Mustard, Tame (Yellow)	<i>Sinapis alba</i>	A			Introduced	Annual	Mid-season	100,000	4	2		1
Mustard, White	<i>Sinapis alba</i>	A			Introduced	Annual	Mid-season	100,000	4	2		1
Pea, Field	<i>Pisum sativum</i>	A			Introduced	Annual	Early	5,000	7	60		1
Rapeseed	<i>Brassica napus</i>	A			Introduced	Annual	Mid-season	454,000		5		1
Safflower	<i>Carthamus tinctorius</i>	A			Introduced	Annual	Late			20		1
Soybean	<i>Glycine max</i>	A			Introduced	Annual	Late			50		1
Sunflower, Annual	<i>Helianthus annuus</i>	A		E/A	Native	Annual	Late	6,000		4		1
Vetch, Common	<i>Vicia sativa</i>	A		Pr/A	Introduced	Annual	Early	39,600	5	20		1
Vetch, Hairy	<i>Vicia villosa</i>	A		Pr/A	Introduced	Annual	Early	20,000	15	30		1
Alfalfa	<i>Medicago sativa</i>	A	MESA	E/P	Introduced	Perennial	Early, Mid	210,000	30			2
Alfalfa, Yellow	<i>Medicago sativa</i> ssp. <i>falcata</i>	A	MESAF	E/P	Introduced	Perennial	Early, Mid	210,000	30			2
American Vetch	<i>Vicia americana</i>	B	VIAM	Pr/P	Native	Perennial	Early, Mid	30,000	25	36		2
Aster, Blue	<i>Symphyotrichum laeve</i>	B	SYLA3	E/P	Native	Perennial	Mid, Late	880,000	30	1.5		2
Aster, Heath	<i>Symphyotrichum ericoides</i>	B	SYER	E/P	Native	Perennial	Mid, Late	3,200,000	30	0.4		2
Aster, New England	<i>Symphyotrichum novae- angliae</i>	B	SYNO2	E/P/R	Native	Perennial	Mid, Late	1,300,000	25	0.8		2
Birdsfoot Trefoil	<i>Lotus corniculatus</i>	A	LOCO6	Pr/P	Introduced	Perennial	Early	418,000	50	5.00		2
Black Samson	<i>Echinacea angustifolia</i>	A	ECAN2	E/P	Native	Perennial	Mid, Late	120,000	25	9		2
Black-eyed Susan	<i>Rudbeckia hirta</i> L.	A	RUHI2	E/P	Native	Perennial	Mid, Late	1,450,000	25	0.80		2
Blanketflower	<i>Gaillardia aristata</i>	A	GAAR	E/P	Native	Perennial	Mid-season	157,000	25	7.00		2

North Dakota Pollinator Species List

Specie	Scientific Name	A / B List	Symbol	Growth Characteristics	Growth Habit		Bloom Period	Seeds/ Pound	Seed per SqFt	#PLS / Acre	Shrub	Cover Crop Species
Blue Vervain	<i>Verbena hastata</i>	B	VEHA2	E/P	Native	Perennial	Mid, Late	1,488,000	34	1		2
Buffaloberry	<i>Shepherdia argentea</i>	A	SHAR	E/P/R	Native	Perennial	Early	41,000	4	4.2	X	
Canada Anemone	<i>Anemone canadensis</i>	B	ANCA8	E/P	Native	Perennial	Early, Mid	128,000	30	10		2
Canada Milkvetch	<i>Astragalus canadensis</i>	A	ASCAC6	E/P	Native	Perennial	Mid-season	266,000	25	4		2
Canada Tickclover	<i>Desmodium canadense</i>	B	DECA7	E/P	Native	Perennial	Mid-season	72,500	25	12.3		2
Chokecherry	<i>Prunus virginiana</i>	A	PRVIV	E/P/R	Native	Perennial	Early	4,000	3	26	X	
Cicer Milkvetch	<i>Astragalus cicer</i>	A	ASCI4	Pr/P	Introduced	Perennial	Mid-season	134,000	30	10		2
Clover, Alsike	<i>Trifolium hybridum</i>	A	TRHY	Pr/P	Introduced	Perennial	Mid-season	680,000	50	3		2
Clover, Red	<i>Trifolium pratense</i>	A	TRPR2	Pr/P	Introduced	Perennial	Early, Mid	275,000	30	5		2
Clover, Strawberry	<i>Trifolium fragiferum</i>	A	TRFR2	E/P	Introduced	Perennial	Early, Mid	300,000	25	3.5		2
Clover, Sweet	<i>Melilotus officinalis</i>	A	MEOF	E/Bi	Introduced	Biennial	Mid-season	260,000	25	4		2
Clover, White / Dutch / New Zealand / Ladino	<i>Trifolium repens</i>	A	TRRE3	Pr/P	Introduced	Perennial	Early, Mid, Late	800,000	25	1.5		2
Columbine	<i>Aquilegia canadensis</i>	B	AQCA	P/M	Native	Perennial	Early, Mid	362,000	25	3		2
Coneflower, Grayhead	<i>Ratibida pinnata</i>	B	RAPI	E/P/T	Native	Perennial	Late	625,000	25	1.7		2
Coneflower, Prairie (Yellow)	<i>Ratibida pinnata</i>	A	RACO3	E/P	Native	Perennial	Mid-season	737,000	25	1.5		2
Cudweed Sagewort	<i>Artemisia ludoviciana</i>	B	ARLU	E/P/R	Native	Perennial	Late	4,000,000	25	0.3		2
Culver's root	<i>Veronicastrum virginicum</i>	B	VEVI4	E/P	Native	Perennial	Mid-season	12,800,000	30	0.1		2
Cup plant	<i>Silphium perfoliatum</i>	B	SIPE2	E/P/T	Native	Perennial	Late	22,400	10	9		2
Evening Primrose	<i>Oenothera biennis</i>	B	OEBI	Bi/M	Native	Biennial	Mid, Late	1,376,000	25	0.8		2
False boneset	<i>Brickellia eupatorioides</i>	A	EUPE3	E/P	Native	Perennial	Mid, Late	2,560,000	25	0.4		2
False Indigo	<i>Amorpha fruticosa</i> L.	A	AMFR	E/P	Native	Perennial	Mid-season	52,000	30	25	X	
Gayfeather, Dotted	<i>Liatris punctata</i>	A	LIPU	E/P	Native	Perennial	Mid, Late	136,000	25	8		2
Gayfeather, Thickspike	<i>Liatris pycnostachya</i>	B	LIPY	E/P	Native	Perennial	Mid, Late	136,000	25	8		2
Giant Blue Hyssop	<i>Agastache foeniculum</i>	A	AGFO	E/P/R	Native	Perennial	Mid, Late	1,440,000	25	0.8		2
Golden Alexander	<i>Zizia aurea</i>	B	ZIAU	E/P	Native	Perennial	Early	176,000	25	6.2		2
Golden Currant	<i>Ribes aureum</i>	A	RIAU	E/P	Native	Perennial	Early	240,000	30	5.5	X	
Goldenrod, Canada	<i>Solidago canadensis</i>	B	SOCA6	E/P	Native	Perennial	Mid, Late	4,600,000	25	0.2		2
Goldenrod, Missouri	<i>Solidago missouriensis</i>	B	SOMI2	E/P	Native	Perennial	Mid, Late	1,998,000	25	0.5		2
Goldenrod, Stiff	<i>Solidago rigida</i>	A	SORI2	E/P/B	Native	Perennial	Early, Mid, Late	772,000	25	1.4		2
Goldenrod, Tall Smooth	<i>Solidago gigantea</i>	B	SOGI	E/P/B	Native	Perennial	Late	700,000	25	0.5		2
Hoary Vervain	<i>Verbena stricta</i>	B	VEST	E/P	Native	Perennial	Mid, Late	450,000	25	2.4		2
Illinois Bundleflower	<i>Desmanthus illinoensis</i>	A	DEIL	E/P	Native	Perennial	Mid, Late	60,000	25	18		2

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Ironweed	<i>Veronia</i>	B	VEFA2	E/P	Native	Perennial	Mid, Late	385,000	25	2.8		2
Joe Pye weed	<i>Eutrochium maculatum</i>	B	EUMAB	E/P	Native	Perennial	Mid, Late	1,520,000	25	0.7		2
Juneberry	<i>Amelanchier alnifolia</i>	A	AMAL2	E/P/R	Native	Perennial	Early	82,000	30	16	X	
Leadplant	<i>Amorpha canescens</i>	A	AMCA6	E/P	Native	Perennial	Mid, Late	200,000	30	6.5	X	2
Lewis Flax	<i>Linum lewisii</i>	A	LILE3	E/P	Native	Perennial	Early	287,000	25	3.8		2
Milkweed, Butterfly	<i>Asclepias tuberosa</i>	A	ASTU	E/P	Native	Perennial	Early, Mid, Late	67,000	25	16.2		2
Milkweed, Showy	<i>Asclepias speciosa*</i>	B	ASSP	E/P	Native	Perennial	Early, Mid	85,000	25	13		2
Milkweed, Swamp	<i>Asclepias incarnata*</i>	B	ASIN	E/P	Native	Perennial	Mid, Late	72,000	25	15		2
Partridge Pea	<i>Chamaecrista fasciculata</i>	B	CHFAF	E/P	Native	Annual	Late	43,000	10	10		2
Plains Coreopsis	<i>Coreopsis tinctoria</i>	A	COTI3	E/A	Native	Annual	Early, Mid	1,650,000	25	0.7		2
Prairieclover, Purple	<i>Dalea purpurea</i>	A	DAPU5	E/P	Native	Perennial	Mid-season	290,000	25	3.8		2
Prairieclover, White	<i>Dalea candida</i>	B	DAAL	E/P	Native	Perennial	Mid-season	278,000	25	3.9		2
Prairie Onion	<i>Allium stellatum</i>	B	ALST	E/P	Native	Perennial	Mid-season	176,000	25	6.2		2
Prairie Phlox	<i>Phlox andicola</i>	B	PHAN4	P/R/M	Native	Perennial	Mid-season	304,000	28	4		2
Prairie Rose	<i>Rosa arkansana</i>	A	ROAR3	E/P/R	Native	Perennial	Early, Mid	45,000	30	29	X	
Purple Meadow Rue	<i>Thalictrum dasycarpum</i>	B	THDA	E/P	Native	Perennial	Mid-season	176,000	25	6.2		2
Rocky Mountain Bee Plant	<i>Cleome serrulata</i>	B	CLSE	A/L/T	Native	Perennial	Early	64,000	30	20		2
Sainfoin	<i>Onobrychis viciifolia</i>	A	ONVI	E/P	Introduced	Perennial	Early	22,000	15	35		2
Saltbush, Fourwing Dewinged	<i>Atriplex canescens</i>	A	ATCA2	E/P	Native	Perennial	Mid-season	52,000	7	6	X	2
Saltbush, Gardner	<i>Atriplex gardneri</i>	A	ATGA	E/P	Native	Perennial	Mid-season	110,000	30	12	X	2
Scarlet Globemallow	<i>Sphaeralcea coccinea</i>	A	SPCO	E/P	Native	Perennial	Mid-season	500,000	25	2		2
Shell-leaf or Large Flowered Penstemon	<i>Penstemon grandiflorus</i>	A	PEGR7	E/P	Native	Perennial	Early	273,000	25	4		2
Silvery Lupine	<i>Lupinus argenteus</i>	B	LUAR3	E/P	Native	Perennial	Early, Mid	126,000	25	8		2
Sneezeweed	<i>Helenium autumnale</i>	B	HEAU	E/P	Native	Perennial	Late	2,100,000	25	0.4		2
Spiderwort, Longbract	<i>Tradescantia bracteata</i>	B	TRBR	E/P	Native	Perennial	Early, Mid	166,000	25	7		2
Spiderwort, Prairie	<i>Tradescantia occidentalis</i>	B	TROCO	E/P	Native	Perennial	Early, Mid, Late	166,000	25	7		2
Sunflower, False	<i>Heliopsis helianthoides</i>	B	HEHES	E/R	Native	Perennial	Mid, Late	60,000	25	18		2
Sunflower, Maximilian	<i>Helianthus maximiliani</i>	A	HEMA2	E/P/R	Native	Perennial	Mid, Late	250,000	6	1		2
Sunflower, Sawtooth	<i>Helianthus grosseserratus</i>	B	HEGR4	E/P/R	Native	Perennial	Mid, Late	630,000	25	1.7		2
Sunflower, Stiff	<i>Helianthus pauciflorus</i>	B	HEPAS	E/P/R	Native	Perennial	Mid, Late	85,000	5	2.5		2
Western Snowberry	<i>Symphoricarpos occidentalis</i>	A	SYOC	E/P/R	Native	Perennial	Early, Mid	74,400	30	17.5	X	
Western Yarrow	<i>Achillea millefolium L. var. occidentalis</i>	A	ACMIO	E/P/R	Native	Perennial	Early, Mid	2,800,000	25	0.4		2

North Dakota Pollinator Species List

Specie	Scientific Name	A / B List	Symbol	Growth Characteristics	Growth Habit		Bloom Period	Seeds/ Pound	Seed per SqFt	#PLS / Acre	Shrub	Cover Crop Species
Wild Bergamont	<i>Monarda fistulosa</i>	A	MOFI	E/P	Native	Perennial	Mid, Late	1,200,000	25	0.9		2
Winterfat	<i>Krascheninnikovia lanata</i>	A	KRLA2	E/P	Native	Perennial	Early	150,000	30	8.5	X	2
Wyoming Big Sagebrush	<i>Artemisia tridentata</i>	A	ARTRW8	E/P	Native	Perennial	Late	2,466,000	28	0.5	X	2

[ArcGIS map - Instructions for inserting an ArcGIS map into the ND-CPA-9 grass](#)

NR = Not Recommended

Table 1. Full Seeding Rates From ND HVEG

Species	Seeds/Pound	MLRA 55 A/B & 56 4		MLRA 53 A/B, 54 & 58 C/D 4	
		Seed/SqFt	#PLS/Ac	Seed/SqFt	#PLS/Ac
Alfalfa (MESA)	210,000	30	6.5	25	5.5
Alkali sacaton (SPAI)	1,758,000	NR	NR	40	6
American sloughgrass (BESY)	1,150,000	25	0.9	25	0.9
American vetch (VIAM)	30,000	25	36	25	36
Aster, Blue (SYLAL3)	880,000	30	1.5	30	1.5
Aster, Heath (SYER)	3,200,000	30	0.4	30	0.4
Aster, New England (SYNO2)	1,300,000	25	0.8	NR	NR
Birdsfoot trefoil (LOCO6)	418,000	50	5	NR	NR
Black samson (ECAN2)	120,000	25	9	25	9
Black-eyed Susan (RUHI2)	1,450,000	25	0.8	25	0.8
Blanket flower (GAAR)	157,000	25	7	25	7
Blue vervain (VEHA2)	1,488,000	34	1	34	1
Bluejoint (CACA4)	4,480,000	50	0.5	50	0.5
Bluestem, Big (ANGE)	176,000	30	7.5	25	6
Bluestem, Little (SCSC)	286,000	30	4.5	25	4
Bluestem, Sand (ANHA)	113,000	30	12	25	9.5
Bromegrass, Meadow (BRBI2)	80,000	30	16.5	25	13.5
Bromegrass, Smooth (BRIN2)	135,000	25	8	20	6.5
Buffaloberry (SHAR)	41,000	4	4.2	4	4.2
Buffalograss (BODA2)	50,000	30	26	25	23
Canada anemone (ANCA8)	128,000	30	10	30	10
Canada milkvetch (ASCAC6)	266,000	25	4	25	4
Canada tickclover (DECA7)	88,000	25	12.3	25	12.3
Chokecherry (PRVIV)	5,000	3	26	3	26
Cicer milkvetch (ASCI4)	134,000	30	10	25	8
Clover, Alsike (TRHY)	680,000	50	3	50	3
Clover, Red (TRPR2)	275,000	30	5	NR	NR
Clover, Strawberry (TRFR2)	300,000	25	3.5	25	3.5
Clover, Sweet (MEOF)	260,000	25	4	20	3
Clover, White (TRRE3)	800,000	25	1.5	25	1.5
Columbine (AQCA)	362000	25	3	25	3
Coneflower, Grayhead (RAPI)	625,000	25	1.7	NR	NR
Coneflower, Prairie (Yellow) (RACO3)	737,000	25	1.5	25	1.5
Creeping foxtail (ALAR)	750,000	60	3.5	60	3.5
Cudweed sagewort (ARLU)	4,000,000	25	0.3	25	0.3

NR = Not Recommended

Table 1. Full Seeding Rates From ND HVEG

Species	MLRA 55 A/B & 56 4			MLRA 53 A/B, 54 & 58 C/D 4	
	Seeds/Pound	Seed/SqFt	#PLS/Ac	Seed/SqFt	#PLS/Ac
Culver's root (VEVI4)	12,800,000	30	0.1	NR	NR
Cup plant (SIPE2)	22,400	10	9	NR	NR
Evening primrose (OEBI)	1,376,000	25	0.8	25	0.8
False boneset (EUPE3)	2,560,000	25	0.4	25	0.4
False indigo (AMNA)	52,000	30	25	25	21
Fowl bluegrass (POPA2)	2,080,000	48	1	48	1
Fox sedge (CAVU2)	1,600,000	37	1	37	1
Gayfeather, Dotted (LIPU)	136,000	25	8	25	8
Gayfeather, Thickspike (LIPY)	136,000	25	8	NR	NR
Giant blue hyssop (AGFO)	1,440,000	25	0.8	25	0.8
Golden Alexander (ZIAU)	176,000	25	6.2	25	6.2
Golden currant (RIAU)	240,000	30	5.5	25	4.5
Goldenrod, Canada (SOCA6)	4,600,000	25	0.2	25	0.2
Goldenrod, Missouri (SOMI2)	1,998,000	25	0.5	25	0.5
Goldenrod, Stiff (SORI2)	772,000	25	1.4	25	1.4
Goldenrod, Tall smooth (SOGI)	700,000	25	0.5	25	0.5
Grama, Blue (BOGR2)	750,000	40	2.5	30	2
Grama, Sideoats (BOCU)	180,000	30	7.5	25	6
Green needlegrass (NAVI4)	180,000	30	7.5	25	6
Hard fescue (FEBR7)	565,000	50	4	35	3
Hoary vervain (VEST)	450,000	25	2.4	25	2.4
Illinois bundleflower (DEIL)	60,000	25	18	25	18
Indian ricegrass (ACHY)	235,000	30	5.5	25	4.5
Indiangrass (SONU)	193,000	30	7	25	5.5
Inland saltgrass (DISP)	520,000	35	5.5	35	5.5
Ironweed (VEFA2)	385,000	25	2.8	25	2.8
Joe Pye weed (EUMAB)	1,520,000	25	0.7	25	0.7
Juneberry (AMAL2)	82,000	30	16	25	13
Leadplant (AMCA6)	200,000	30	6.5	25	5.4
Lewis flax (LILE3)	287,000	25	3.8	25	3.8
Mannagrass, American (GLGR)	1,280,000	45	1.5	45	1.5
Mannagrass, Fowl (GLST)	1,440,000	37	1	37	1
Milkweed, Butterfly (ASTU)	67,000	25	16.2	25	16.2
Milkweed, Showy (ASSP)	85,000	25	13	25	13
Milkweed, Swamp (ASIN)	72,000	25	15	25	15
Needle and thread (HECO26)	115,000	25	9.5	25	9.5

NR = Not Recommended

Table 1. Full Seeding Rates From ND HVEG

Species	MLRA 55 A/B & 56 4			MLRA 53 A/B, 54 & 58 C/D 4	
	Seeds/Pound	Seed/SqFt	#PLS/Ac	Seed/SqFt	#PLS/Ac
Nuttall alkaligrass (PUNU2)	2,108,000	50	1	50	1
Partridge pea (CHFAF)	43,000	10	10	10	10
Plains coreopsis (COTI3)	1,650,000	25	0.7	25	0.7
Porcupine grass (HESP11)	57,000	25	19	25	19
Prairie cordgrass (SPPE)	183,000	30	7	30	7
Prairie dropseed (SPHE)	224,000	25	5	25	5
Prairie junegrass (KOMA)	2,315,000	50	1	50	1
Prairie onion (ALST)	176,000	25	6.2	25	6.2
Prairie phlox (PHAN4)	304,000	28	4	28	4
Prairie rose (ROAR3)	45,000	30	29	25	24
Prairie sandreed (CALO)	275,000	30	5	25	4
Prairieclover, Purple (DAPU5)	290,000	25	3.8	25	3.8
Prairieclover, White (DAAL)	278,000	25	3.9	25	3.9
Purple meadow rue (THDA)	176,000	25	6.2	25	6.2
Reed canarygrass (PHAR3)	530,000	40	3.5	40	3.5
Rocky Mountain Bee plant (CLSE)	64,000	30	20	30	20
Sainfoin, hull (ONVI)	18,500	15	35	15	35
Saltbush, Fourwing (dewinged) (ATCA2)	52,000	7	6	7	6
Saltbush, Gardner (ATGA)	110,000	30	12	25	10
Sand dropseed (SPCR)	5,680,000	70	0.5	70	0.5
Scarlet globemallow (SPCO)	500,000	25	2	25	2
Shell-leaf penstemon (PEGR7)	273,000	25	4	25	4
Silvery lupine (LUAR3)	126,000	NR	NR	25	8
Slough sedge (CAAT2)	230,490	25	4.7	25	4.7
Sneezeweed (HEAU)	2,100,000	25	0.4	25	0.4
Spiderwort, Long bract (TRBR)	166,000	25	7	25	7
Spiderwort, Prairie (TROC)	166,000	25	7	25	7
Sunflower, False (HEHES)	60,000	25	18	25	18
Sunflower, Maximilian (HEMA2)	250,000	6	1	6	1
Sunflower, Sawtooth (HEGR)	630,000	25	1.7	NR	NR
Sunflower, Stiff (HEPAS)	85,000	5	2.5	5	2.5
Switchgrass (PAVI)	390,000	40	4.5	30	3.5
Timothy (PHPR3)	1,300,000	30	1	NR	NR
Western snowberry (SYOC)	74,400	30	17.5	25	14.6
Western yarrow (ACMIO)	2,800,000	25	0.4	25	0.4
Wheatgrass, Bluebunch (PSSPS)	140,000	NR	NR	25	8

NR = Not Recommended

Table 1. Full Seeding Rates From ND HVEG

Species	Seeds/Pound	MLRA 55 A/B & 56 4		MLRA 53 A/B, 54 & 58 C/D 4	
		Seed/SqFt	#PLS/Ac	Seed/SqFt	#PLS/Ac
Wheatgrass, Crested (AGCR)	175,000	28	7	25	6
Wheatgrass, Green (ELHO3)	135,000	46	14	33	10
Wheatgrass, Intermediate (THIN6)	88,000	20	10	17	8.5
Wheatgrass, Pubescent (THIN6)	88,000	20	10	17	8.5
Wheatgrass, Siberian (AGFR)	175,000	30	7.5	25	6
Wheatgrass, Slender (ELTR7) awned & bearded	155,000	25	5.5	17	5
Wheatgrass, Streambank/Thickspike (ELLAL)	155,000	NR	NR	25	7
Wheatgrass, Tall (THPO7)	79,000	23	13.5	20	11
Wheatgrass, Western (PASM)	112,000	25	10	20	8
Whitetop (SCFE)	191,000	11	2.4	NR	NR
Wild bergamot (MOFI)	1,200,000	25	0.9	25	0.9
Wildrye, Altai (LEAN3)	68,000	30	19	25	16
Wildrye, Basin (LECI4)	140,000	NR	NR	25	8
Wildrye, Beardless (LETR5)	150,000	30	8.5	25	7.5
Wildrye, Canada (ELCA4)	115,000	20	7.5	17	6.5
Wildrye, Dahurian (ELDA3)	86,000	20	10	17	8.5
Wildrye, Mammoth (LERA5)	55,000	30	24	25	20
Wildrye, Manystem (LEMU11)	150,000	30	8.5	25	7.5
Wildrye, Russian (PSJU3)	175,000	30	7.5	25	6
Wildrye, Virginia (ELSU)	96,000	20	10	NR	NR
Winterfat (KRLA2)	150,000	30	8.5	25	7
WY big sagebrush (ARTRW8)	2,466,000	NR	NR	28	0.5

Grass/Legume Stand Evaluation

Name: _____		Date: _____	
Transect No: _____		Tract / Field #: _____	
Completed By: _____		Legal Desc: _____	Sect: _____ Twshp _____ Range _____

	Species and/or Variety	Plants / Square Foot Plot																									Total	Average Plants/ SqFt
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
1																												
2																												
3																												
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5																												
6																												
7																												
8																												
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10																												
11																												
12																												
13																												
14																												
15																												
Totals Per Count																												

Indicate how field was sampled:

Seeding Direction _____

Total Acres _____

Total number of plots: _____

Average Density (plant/sq. foot): _____

Plant Vigor: Low ☐ Medium ☐ High ☐

Weed Competition: _____

Comments: _____

Recommendations to Cooperator:

Guidelines:

- Sample in a systematic and uniform manner
- Minimum of 10 plots for each 10 acres or less of field size
- Avoid areas that may have been double-seeded
- Sample perpendicular or diagonal to drill rows
- Use a 1 square foot frame (12 in. X 12 in.) or count parallel drill rows:

Recommended Minimum Seeded Species Densities:

Practices 512, 550: (3 - 5 plants per square foot)

Practice 327 : (1 - 2 plants per square foot)

Use the lower limit for rhizomatous species; upper limit for bunch-type or mixtures) Refer to the "Herbaceous Vegetation Establishment Guide" for additional guidance.

Row spacing	No. of rows	Length
6 inches	2 rows	12.0 inches
7 inches	2 rows	10.3 inches
8 inches	2 rows	9.0 inches

I certify that the above stand evaluation is documented per NRCS practice specifications.

NRCS Evaluator Signature: _____

Date: _____