

Create a seed mix that meets the standard:

Using the Seed Calc workbook, design a seed mix that contains:

Big Bluestem

Little Bluestem

Indiangrass

Switchgrass

Side-oats grama

(Species selected by using an ecological site description)

How do we check this seed mix to see if it meets the 342 practice standard:

35-441

Mesic Prairie Northwest

Common Name	Scientific Name	Rate (kg/ha)	Rate (lb/ac)	% of Mix (% by wt)	Seeds/ sq ft
big bluestem	<i>Andropogon gerardii</i>	1.12	1.00	9.08%	3.67
side-oats grama	<i>Bouteloua curtipendula</i>	1.35	1.20	10.89%	2.64
nodding wild rye	<i>Elymus canadensis</i>	1.12	1.00	9.09%	1.91
slender wheatgrass	<i>Elymus trachycaulus</i>	1.12	1.00	9.11%	2.54
porcupine grass	<i>Hesperostipa spartea</i>	0.47	0.42	3.82%	0.11
switchgrass	<i>Panicum virgatum</i>	0.20	0.18	1.59%	0.90
little bluestem	<i>Schizachyrium scoparium</i>	1.68	1.50	13.66%	8.28
Indian grass	<i>Sorghastrum nutans</i>	1.35	1.20	10.91%	5.29
Total Grasses		8.41	7.50	68.15%	25.33
Prairie Wild Onion	<i>Allium stellatum</i>	0.03	0.03	0.27%	0.12
Canada milk vetch	<i>Astragalus canadensis</i>	0.07	0.06	0.54%	0.37
white prairie clover	<i>Dalea candida</i>	0.07	0.06	0.55%	0.42
purple prairie clover	<i>Dalea purpurea</i>	0.10	0.09	0.83%	0.50
Canada tick trefoil	<i>Desmodium canadense</i>	0.09	0.08	0.77%	0.17
ox-eye	<i>Heliopsis helianthoides</i>	0.07	0.06	0.55%	0.14
rough blazing star	<i>Liatris aspera</i>	0.03	0.03	0.28%	0.18
great blazing star	<i>Liatris pycnostachya</i>	0.07	0.06	0.54%	0.24
wild bergamot	<i>Monarda fistulosa</i>	0.03	0.03	0.27%	0.77
stiff goldenrod	<i>Oligoneuron rigidum</i>	0.03	0.03	0.27%	0.45
Virginia mountain mint	<i>pycnanthemum virginianum</i>	0.04	0.04	0.34%	3.00
prairie coneflower	<i>Ratibida columnifera</i>	0.07	0.06	0.55%	0.93
black-eyed susan	<i>Rudbeckia hirta</i>	0.08	0.07	0.59%	2.20
heath aster	<i>Symphyotrichum ericoides</i>	0.01	0.01	0.14%	1.10
smooth aster	<i>Symphyotrichum laeve</i>	0.03	0.03	0.27%	0.61
blue vervain	<i>Verbena hastata</i>	0.10	0.09	0.77%	2.91
golden alexanders	<i>Zizia aurea</i>	0.19	0.17	1.56%	0.70
Total Forbs		1.12	1.00	9.09%	14.81
Oats	<i>Avena sativa</i>	2.80	2.50	22.76%	1.12
Total Cover Crop		2.80	2.50	22.76%	1.12
Totals:		12.33	11.00	100.00%	41.25
Purpose:	Regional mesic prairie reconstruction for wetland mitigation, ecological restoration, or conservation program plantings.				
Planting Area:	Tallgrass Aspen Parklands Province, Red River Prairie Section, Hardwood Hills subsection of the MN & NE IA Morainal Section, may extend into the far western portions of the Laurentian Mixed Forest Province. Mn/DOT Districts 2(west) & 4(north).				

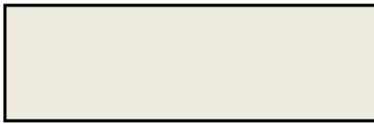
Certification of the practice:

Seeding Plan

Name _____ Class Example _____ Date **4/6/2020**

Prepared by _____ **Kelly** _____ Tract No./ Field No. **1234**

Type of
Seeding:



Field Area (acres): **5.00**

Seeding Mix Summary

342 CRITICAL AREA PLANTING - NATIVE GRASS

Grasses/ Sedges	Common Name	Scientific Name	PLS Lbs/Acre	PLS Lbs
1	Big Bluestem	Andropogon gerardii	10.00	50.00
2	Side-oats Grama	Bouteloua curtipendula	2.00	10.00
3	Switchgrass	Panicum virgatum	3.00	15.00
4	Indiangrass	Sorghastrum nutans	4.00	20.00
5	Little Bluestem	Schizachyrium scoparium	5.00	25.00
SUBTOTAL GRASS/SEDGE DRILLED RATE ¹			24.00	120.00

Client provided seed tags and receipts for:

Big Bluestem	60 bulk pounds, 97% pure, 90% germination,	Genetic Origin: Dakota Co, MN
Side-oats Grama	35 bulk pounds, 90% pure, 41% germination,	Genetic Origin: Benton Co, MN
Switchgrass	25 bulk pounds, 90% pure, 95% germination,	Forestburg Variety
Indiangrass	25 bulk pounds, 90% pure, 8% germination, 87% dormant.	Genetic Origin: Sherburne Co.
Little Bluestem	35 bulk pounds, 85% pure, 90% germination,	Genetic Origin: Fillmore County