

BWSR Pilot Seed Mixes

PILOT SEED MIXES:

These new “Pilot” seed mixes have been developed for a variety of restoration, conservation and stormwater uses. Goals were to meet the needs of common project types and to create direction for emerging topics such as biofuels, buffers, conservation grazing, and pollinators. All of the mixes were developed for specific functions and incorporate pollinator habitat to the extent possible. The mixes will remain as pilot mixes for a few years until we understand how they are performing before we work to make them official state mixes. In many cases these mixes should be considered starting points for developing site specific mixes.

Note: Oats cover crop is included as a component of these seed mixes with the exception of some wetland mixes where cover species are not necessary. Winter wheat (at a similar rate to oats) may be selected in some cases where germination is needed later in the fall, followed by further green-up the following spring (oats will not come back the follow spring unless it re-establishes from seed).

Finalized

Biofuels/Biomass Northwest

Function: Production

Intent: Native prairie biofuel production for Northwest MN

Planting Area: NW

Specialization: NRCS 643 & 512

Scientific Name	Common Name	Seeds/ sq ft	Rate (lb/ac)	% Mix (by sqft)	% Mix (by wt)
Cover					
Avena sativa	Oats* (See Cover crop note)	1.4	4.76		
Total Guild:		1.4	4.76	2.68%	33.7%
Forb					
Allium stellatum	Prairie Wild Onion	0.12	0.03		
Asclepias syriaca	Common Milkweed	0.16	0.11		
Asclepias tuberosa	Butterfly Milkweed	0.04	0.03		
Helianthus maximilianii	Maximilian's Sunflower	0.3	0.06		
Heliopsis helianthoides	Ox-eye	0.14	0.06		
Liatris aspera	Rough Blazing Star	0.18	0.03		
Liatris pycnostachya	Great Blazing Star	0.2	0.05		
Monarda fistulosa	Wild Bergamot	1.2	0.05		
Oligoneuron rigidum	Stiff Goldenrod	0.6	0.04		
Pycnanthemum virginianum	Virginia Mountain Mint	3	0.04		
Ratibida columnifera	Prairie Coneflower	1.2	0.08		
Rudbeckia hirta	Black-eyed Susan	4	0.12		

Sisyrinchium campestre	Field Blue-eyed Grass	0.17	0.01
Smilacina racemosa	False Solomons Seal	0.01	0.07
Symphyotrichum ericoides	Heath Aster	1.5	0.02
Symphyotrichum laeve	Smooth Aster	0.61	0.03
Symphyotrichum novae-angliae	New England Aster	0.6	0.03
Verbena hastata	Blue Vervain	4	0.12
Zizia aurea	Golden Alexanders	0.7	0.16

Total Guild:	18.73	1.14	35.92%	8.0%
--------------	-------	------	--------	------

Graminoid

Andropogon gerardii	Big Bluestem	6	1.63
Bouteloua curtipendula	Side-oats Grama	1	0.45
Elymus canadensis	Canada Wild Rye	2	1.05
Elymus trachycaulus	Slender Wheatgrass	1.2	0.59
Hesperostipa spartea	Porcupine Grass	0.02	0.08
Panicum virgatum	Switchgrass	8	1.56
Schizachyrium scoparium	Little Bluestem	4	0.73
Sorghastrum nutans	Indian Grass	4	0.91
Spartina pectinata	Prairie Cordgrass	1	0.41

Total Guild:	27.22	7.41	52.20%	52.5%
--------------	-------	------	--------	-------

Legume

Astragalus canadensis	Canada Milk Vetch	1.2	0.19
Dalea candida	White Prairie Clover	1.5	0.21
Dalea purpurea	Purple Prairie Clover	2	0.36
Desmodium canadense	Canada Tick Trefoil	0.1	0.06

Total Guild:	4.8	0.82	9.20%	5.8%
--------------	-----	------	-------	------

Total Seed Mix:	52.15	14.13
-----------------	-------	-------