

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 couple 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

Low Growing Solar Array Mix Northeast

Function: Pollinator

Intent: Low growing native vegetation establishment for under solar panels in Northeastern MN

Planting Area: NE

Specialization:

	Scientific Name	Common Name	Seeds/ sq ft	Rate (lb/ac)	% Mix (by sqft)	% Mix (by wt)
Cover						
	<i>Avena sativa</i>	Oats* (See Cover crop note)	11.13	37.88		
		Total Guild:	11.13	37.88	19.27%	88.4%
Forb						
	<i>Achillea millefolium</i>	Common Yarrow	0.66	0.01		
	<i>Allium stellatum</i>	Prairie Wild Onion	0.73	0.18		
	<i>Anemone canadesis</i>	Canada Anemone	0.18	0.06		
	<i>Aquilegia canadensis</i>	Columbine	0.44	0.03		
	<i>Asclepias tuberosa</i>	Butterfly Milkweed	0.1	0.06		
	<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	1.4	0.01		
	<i>Galium boreale</i>	Northern Bedstraw	0.28	0.01		
	<i>Geranium maculatum</i>	Wild Geranium	0.02	0.01		
	<i>Liatris aspera</i>	Rough Blazing Star	0.25	0.04		
	<i>Penstemon grandiflorus</i>	Large-flowered Beard Tongue	0.5	0.10		
	<i>Potentilla arguta</i>	Prairie Cinquefoil	0.1	0.00		
	<i>Pycnanthemum virginianum</i>	Virginia Mountain Mint	0.82	0.01		

<i>Rudbeckia hirta</i>	Black-eyed Susan	1.58	0.07
<i>Sisyrinchium campestre</i>	Field Blue-eyed Grass	0.52	0.03
<i>Smilacina racemosa</i>	False Solomons Seal	0.01	0.07
<i>Solidago nemoralis</i>	Gray Goldenrod	1.2	0.01
<i>Solidago ptarmicoides</i>	Upland White Aster	1	0.04
<i>Symphyotrichum ericoides</i>	Heath Aster	0.8	0.01
<i>Symphyotrichum laeve</i>	Smooth Aster	0.63	0.03
<i>Symphyotrichum lateriflorum</i>	Calico Aster	1	0.01
<i>Zizia aptera</i>	Heart-leaved Alexanders	0.55	0.12
	Total Guild:	12.77	0.91 22.11% 2.1%

Graminoid

<i>Bromus kalmii</i>	Kalm's Brome	3	1.02
<i>Danthonia spicata</i>	Poverty Grass	6	0.65
<i>Festuca rubra</i>	Red Fescue	12	1.42
<i>Koeleria macrantha</i>	Junegrass	4.59	0.06
	Total Guild:	25.59	3.15 44.30% 7.4%

Legume

<i>Astragalus canadensis</i>	Canada Milk Vetch	0.4	0.06
<i>Dalea candida</i>	White Prairie Clover	1.7	0.24
<i>Dalea purpurea</i>	Purple Prairie Clover	1.02	0.19
	Total Guild:	3.12	0.49 5.40% 1.1%

Sedge

<i>Carex bicknellii</i>	Bicknell's Sedge	0.95	0.15
<i>Carex brevior</i>	Short Sedge	2.1	0.20
<i>Carex scoparia</i>	Lance-fruited Oval sedge	2.1	0.07
	Total Guild:	5.15	0.42 8.92% 1.0%
	Total Seed Mix:	57.76	42.85