



 July 5, 2018

 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 **High Diversity Solar Array Mesic Soil South & West Mix**

Function: Pollinator Planting Area: S & W Specialization:

Intent: Low growing native vegetation establishment for under solar panels in south and west MN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scientific Name Common Name Seeds/ sq ft**Cover** | Rate (lb/ac) | % Mix (by sqft) | % Mix (by wt) |  |
|  | Avena sativa | Oats\* (See Cover crop note) | 6 | 20.42 |  |  |
|  |  | Total Guild: | 6 | 20.42 | 12.85% | 77.9% |
| **Forb** | Achillea millefolium | Common Yarrow | 0.41 | 0.01 |  |  |
|  | Allium stellatum | Prairie Wild Onion | 0.51 | 0.12 |  |  |
|  | Anemone canadesis | Canada Anemone | 0.18 | 0.06 |  |  |
|  | Anemone cylindrica | Long‐headed Thimbleweed | 0.6 | 0.06 |  |  |
|  | Asclepias syriaca | Common Milkweed | 0.46 | 0.30 |  |  |
|  | Asclepias verticillata | Whorled Milkweed | 0.32 | 0.08 |  |  |
|  | Astragalus crassicarpus | Ground Plum | 0.36 | 0.19 |  |  |
|  | Echinacea angustifolia | Narrow‐leaved Purple Conefl | 0.64 | 0.25 |  |  |
|  | Euthamia graminifolia | Grass‐leaved Goldenrod | 0.8 | 0.01 |  |  |
|  | Galium boreale | Northern Bedstraw | 0.4 | 0.02 |  |  |
|  | Liatris aspera | Rough Blazing Star | 0.28 | 0.05 |  |  |
|  | Lobelia spicata | Rough‐spiked Lobelia | 1.03 | 0.00 |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Monarda fistulosa | Wild Bergamot | 0.8 | 0.03 |
| Penstemon grandiflorus | Large‐flowered Beard Tongue | 0.48 | 0.09 |
| Phlox pilosa | Prairie Phlox | 0.11 | 0.02 |
| Potentilla arguta | Prairie Cinquefoil | 0.53 | 0.01 |
| Pycnanthemum virginianum | Virginia Mountain Mint | 0.76 | 0.01 |
| Ratibida columnifera | Prairie Coneflower | 0.96 | 0.06 |
| Rudbeckia hirta | Black‐eyed Susan | 1.58 | 0.05 |
| Sisyrinchium campestre | Field Blue‐eyed Grass | 0.52 | 0.03 |
| Solidago rigida | Stiff Goldenrod | 0.47 | 0.03 |
| Solidago speciosa | Showy Goldenrod | 0.55 | 0.02 |
| Symphyotrichum ericoides | Heath Aster | 0.46 | 0.01 |
| Symphyotrichum laeve | Smooth Aster | 0.63 | 0.03 |
| Zizia aptera | Heart‐leaved Alexanders | 0.55 | 0.12 |
| Total Guild: 14.39 | 1.66 | 30.83% | 6.3% |

# Graminoid

Bouteloua curtipendula Side‐oats Grama 3.31 1.50

Bouteloua gracilis Blue Grama 4.59 0.31

Koeleria macrantha Junegrass 4.59 0.07

Schizachyrium scoparium Little Bluestem 4.13 0.75

Sporobolus heterolepis Prairie Dropseed 2.94 0.50

**Legume**

Total Guild:

19.56

3.13 41.90% 11.9%

Astragalus canadensis Canada Milk Vetch 0.78 0.12

Dalea candida White Prairie Clover 1.74 0.25

Dalea purpurea Purple Prairie Clover 2.07 0.38

|  |  |  |  |
| --- | --- | --- | --- |
| Total Guild: 4.59 | 0.75 | 9.83% | 2.9% |
| **Sedge** | Carex bicknellii | Bicknell's Sedge | 0.78 | 0.12 |  |  |
|  | Carex brevior | Short Sedge | 0.67 | 0.07 |  |  |
|  | Carex pensylvanica | Pennsylvania Sedge | 0.69 | 0.06 |  |  |
|  |  | Total Guild: | 2.14 | 0.25 | 4.58% | 1.0% |

Total Seed Mix: 46.68 26.21