

July 3, 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 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 Planting Area: NW Specialization: NRCS 643 & 512

Intent: Native prairie biofuel production for Northwest MN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |  |  |