

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 not come back the follow spring unless it re-establishes from seed).

cases where germination is needed later in the fall, followed by further green-up the following spring (oats will

The seed mixes in this document include:

Beneficial Insects South West Biofuels/Biomass Northwest Biofuels/Biomass Southeast Biofuels/Biomass Southwest Compacted Trail General Conservation Grazing South West Dry Short Urban Buffer General

Early Successional Floodplain General Eroding Bank Stabilization Northeast Eroding Bank Stabilization Northwest South Forest Groundcover East

Honey Bee Plot Native Non-Native General Impoundment General

Inundated Swale South West Landfill Pollinator Dry Northeast Landfill Pollinator Dry South West Landfill Pollinator Mesic Northeast Landfill Pollinator Mesic South West Little Bluestem Urban Prairie

Low Diversity Buffer General

Low Growing Solar Array Mix Northeast

Low Growing Solar Array Mix South West

Low Growing Solar Array Moist Soils South and West Mesic Short Urban Buffer Northeast

Mesic Short Urban Buffer South West

Mid Diversity Mesic to Dry Buffer South West Mid Diversity Moist Buffer Northeast

Mid Diversity Moist Buffer South West Native Forage Buffer Mix South West Native Grass Waterway General Pollinator Plot Northwest

Pollinator Plot Urban Southeast Pollinator Plots Northeast Pollinator Plots Southeast Pollinator Plots Southwest

Sand Mine Reclamation South West Shallow Rooted BMP Mix General Silvopasture Southeast

Stormwater Pond Pollinator Northeast Wet Meadow Forb/Sedge/Rush Southwest Wetland Construction General

Wetland Seedbank Release Northeast

Pilot **High Diversity Native & Non-Native Honey Bee Plot**

Function: Pollinator Planting Area: Statewide Specialization: NRCS 327

|  |  |  |  |
| --- | --- | --- | --- |
| Scientific Name Common Name Seeds/ | Rate | % Mix | % Mix |
| **Forb** |  |  | sq ft | (lb/ac) | (by sqft) | (by wt) |
|  | Agastache foeniculum | Blue Giant Hyssop | 0.4 | 0.01 |  |  |
|  | Asclepias syriaca | Common Milkweed | 0.2 | 0.14 |  |  |
|  | Asclepias tuberosa | Butterfly Milkweed | 0.1 | 0.06 |  |  |
|  | Asclepias verticillata | Whorled Milkweed | 0.15 | 0.04 |  |  |
|  | Astragalus crassicarpus | Ground Plum | 0.1 | 0.05 |  |  |
|  | Coreopsis palmata | Bird's Foot Coreopsis | 0.15 | 0.04 |  |  |
|  | Helianthus maximilianii | Maximilian's Sunflower | 0.3 | 0.06 |  |  |
|  | Monarda fistulosa | Wild Bergamot | 3 | 0.12 |  |  |
|  | Penstemon grandiflorus | Large-flowered Beard Tongue | 0.32 | 0.06 |  |  |
|  | Pycnanthemum virginianum | Virginia Mountain Mint | 1 | 0.01 |  |  |
|  | Solidago canadensis | Canada Goldenrod | 0.8 | 0.01 |  |  |
|  | Solidago speciosa | Showy Goldenrod | 1 | 0.03 |  |  |
|  | Symphyotrichum ericoides | Heath Aster | 1.8 | 0.02 |  |  |
|  | Symphyotrichum laeve | Smooth Aster | 1.2 | 0.06 |  |  |
|  | Viola pedatifida | Bearded Birdfoot Violet | 0.2 | 0.02 |  |  |
|  | Zizia aurea | Golden Alexanders | 0.5 | 0.12 |  |  |
| Total Guild: 11.22 | 0.85 | 31.11% | 16.2% |

Intent: Native and Non-native vegetation establishment for honey bee plantings up to a few acres in size. This mix contains non-native plant species, so BWSR approval is required for use on BWSR funded projects.

**Graminoid**

Bouteloua curtipendula Side-oats Grama 1 0.45

Elymus canadensis Canada Wild Rye 0.6 0.31

Schizachyrium scoparium Little Bluestem 3 0.54

Sorghastrum nutans Indian Grass 0.5 0.13

Sporobolus heterolepis Prairie Dropseed 1 0.17

|  |  |  |  |
| --- | --- | --- | --- |
| Total Guild: 6.1 | 1.60 | 16.91% | 30.0% |
| **Legume** | Chamaecrista fasciculata | Partridge Pea | 0.7 | 0.71 |  |  |
|  | Dalea candida | White Prairie Clover | 2 | 0.29 |  |  |
|  | Dalea purpurea | Purple Prairie Clover | 3 | 0.54 |  |  |
|  | Medicago sativa | Alfalfa | 3 | 0.57 |  |  |
|  | Trifolium hybridum | Alsike Clover | 4 | 0.26 |  |  |
|  | Trifolium repens | White Clover | 4 | 0.24 |  |  |
|  | Vicia americana | American Vetch | 0.05 | 0.07 |  |  |
|  |  | Total Guild: | 16.75 | 2.68 | 46.44% | 50.3% |
| **Sedge** | Carex brevior | Short Sedge | 2 | 0.19 |  |  |
|  |  | Total Guild: | 2 | 0.19 | 5.54% | 3.5% |
|  |  | Total Seed Mix: | 36.07 | 5.32 |  |  |