

Seed A Legacy Program

Minnesota Honey Bee Mix

Spring 2021

Species	Scientific Name	Suggested Seeding Rates	PLS lbs per acre	PLS seeds per sq ft	% of Mixture PLS	Bloom Period	Pollinator Value
Plains Oval Sedge	<i>Carex brevior</i>	0.01 - 0.05	0.060	0.89	2.23%	--	--
Prairie Junegrass	<i>Koeleria pyramidata</i>	--	0.040	2.13	5.30%	--	--
Alsike Clover	<i>Trifolium hybridum</i>	0.01 - 0.1	0.400	6.25	15.58%	2	5
Anise Hyssop	<i>Agastache foeniculum</i>	0.003 - 0.015	0.060	1.98	4.95%	3	5
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.01 - 0.1	0.050	1.81	4.51%	2	1
Crimson Clover	<i>Trifolium incarnatum</i>	0.1 - 2.0	2.000	6.88	17.15%	2	5
Ladino or White Clover	<i>Trifolium repens</i>	0.1 - 0.5	0.380	6.21	15.49%	2	5
Phacelia	<i>Phacelia spp.</i>	0.08 - 0.5	1.000	5.62	14.03%	2	5
Red Clover	<i>Trifolium pratense</i>	0.1 - 2.0	0.150	0.94	2.34%	2	4
Sainfoin	<i>Onobrychis viciifolia</i>	0.5 - 2.0	2.000	1.39	3.46%	2	5
White Dutch Clover	<i>Trifolium repens</i>	0.1 - 0.5	0.300	6.00	14.97%	2	5
Rice Hulls - Filler for low planting rate mixtures		--	3.000	0.00	0.00%	--	--
Grasses Total:			0.100	3.019	7.53%		
Wildflower/Forb/Legume Total:			6.340	37.079	92.47%		
Filler Total:			3.000	0.000	0.00%		
Total Mixture:			9.440	40.099	100.00%		

Bloom Period	Wildflowers Used in Mixture	% PLS Seeding Rate of Mix
1 = April to May	0	0.00%
2 = June to July	8	87.52%
3 = August to October	1	4.95%
Total :	9	

 4.44 Pollinator Value

The Pollinator Value Score is determined based on a combination of factors that include:

- The pollen and/or nectar value of the plant species.
- Bee Integrated Program research results of pollinator pollen analysis
- Unique pollinator biological life histories of the plant species.
- The ability of the plant species to establish and persist in pollinator seeding mixtures.
- The total bloom period length of the plant species.
- The occurrence in early bloom periods (Bloom Period 1) that are hard to challenging to provide resources for.
- The commercial availability of the species for use in seeding mixtures.
- Value of the plant species pollen and nectar to commercial beekeepers.
- USGS Pollinator Library tool: <https://www.npwrc.usgs.gov/pollinator/home>
- The Ecoregional Revegetation Application tool: <http://www.nativevegetation.org/era/>
- Botanical and beekeeping reference materials that list the pollinator value of species.
- Field observations of floral resource use by pollinator species.