



# The Bee & Butterfly Habitat Fund

## North Dakota Honeybee Mixture

Fall 2022

Species	Scientific Name	PLS lbs per acre	Seeds per sq ft	% of Mixture	Bloom Period	Pollinator Value
Plains Oval Sedge	<i>Carex brevior</i>	0.060	0.89	2.14%	--	--
Alsike Clover	<i>Trifolium hybridum</i>	0.250	3.90	9.34%	2	5
Anise Hyssop	<i>Agastache foeniculum</i>	0.020	0.66	1.58%	3	5
Birdsfoot Trefoil	<i>Lotus corniculatus</i>	0.500	4.25	10.15%	2	5
Canada Goldenrod	<i>Solidago canadensis</i>	0.005	0.81	1.95%	2	5
Clasping Coneflower	<i>Rudbeckia amplexicaulis</i> or <i>Dracopis amplexicaulis</i>	0.030	1.10	2.64%	1	2
Crimson Clover	<i>Trifolium incarnatum</i>	1.500	5.16	12.33%	2	5
Ladino or White Clover	<i>Trifolium repens</i>	0.220	3.60	8.60%	2	5
Late or Giant Goldenrod, Native Source	<i>Solidago gigantea</i>	0.005	0.87	2.08%	3	5
Phacelia	<i>Phacelia</i> spp.	0.700	3.94	9.42%	2	5
Red Clover	<i>Trifolium pratense</i>	0.200	1.25	2.99%	2	4
Sainfoin	<i>Onobrychis viciifolia</i>	1.000	0.69	1.66%	2	5
Sweetclover (white)	<i>Melilotus alba</i>	0.900	5.34	12.78%	2	5
Sweetclover (yellow)	<i>Melilotus officinalis</i>	0.900	5.34	12.78%	2	5
White Dutch Clover	<i>Trifolium repens</i>	0.200	4.00	9.57%	2	5
Rice Hulls - Filler for low planting rate mixtures		2.000	0.00	0.00%	--	--
Grasses Total:		0.060	0.893	2.14%		
Wildflower/Forb/Legume Total:		6.430	40.915	97.86%		
Filler Total:		2.000	0.000	0.00%		
<b>Total Mixture:</b>		<b>8.490</b>	<b>41.808</b>	<b>100.00%</b>		

Bloom Period	Wildflowers Used in Mixture	% PLS Seeding Rate of Mix
1 = April to May	1	2.64%
2 = June to July	11	91.57%
3 = August to October	2	3.66%
<b>Total :</b>	<b>14</b>	

4.71	Pollinator Value (0-5)
The Pollinator value score is determined based on a combination of factors described below. A score greater than 4.0 indicates the mixture is designed for great 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.
- The ability of the plant species to establish and persist in pollinator seeding mixtures.
- Bee Integrated Program research results of pollinator pollen analysis.
- Unique pollinator biological life histories of the plant species.
- 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.nativerrevegetation.org/era/>
- Botanical and beekeeping reference materials that list the pollinator value of species.
- Field observations of floral resource use by pollinator species.