



# The Bee & Butterfly Habitat Fund

## Kansas Monarch Mix

2022

| Species                                    | Scientific Name   | PLS lbs per acre | Seeds per sq ft | % of Mixture | Bloom Period | Pollinator Value |
|--|---|------------------|-----------------|--------------|--------------|------------------|
| Big Bluestem, Pawnee                       | <i>Andropogon gerardii</i>                                      | 0.150            | 0.50            | 1.46%        | --           | --               |
| Canada Wildrye                             | <i>Elymus canadensis</i>  | 0.200            | 0.52            | 1.53%        | --           | --               |
| Little Bluestem, VNS                       | <i>Schizachyrium scoparium</i>                                  | 0.200            | 1.11            | 3.24%        | --           | --               |
| Plains Oval Sedge                          | <i>Carex brevior</i>  | 0.060            | 0.89            | 2.62%        | --           | --               |
| Sideoats Grama, Native Source              | <i>Bouteloua curtipendula</i>                                   | 0.300            | 1.10            | 3.21%        | --           | --               |
| Western Wheatgrass, Barton                 | <i>Elymus smithii</i>   | 0.400            | 1.05            | 3.06%        | --           | --               |
| Anise Hyssop                               | <i>Agastache foeniculum</i>                                     | 0.035            | 1.16            | 3.39%        | 3            | 5                |
| Ashy Sunflower, Native Source              | <i>Helianthus mollis</i>  | 0.030            | 0.14            | 0.41%        | 3            | 5                |
| Baldwin's Ironweed, Native Source          | <i>Vernonia baldwinii</i>                                       | 0.015            | 0.24            | 0.70%        | 2            | 5                |
| Blackeyed Susan                            | <i>Rudbeckia hirta</i>  | 0.050            | 1.81            | 5.30%        | 2            | 1                |
| Blacksamson                                | <i>Echinacea angustifolia</i>                                   | 0.010            | 0.06            | 0.17%        | 2            | 5                |
| Blanketflower - <i>G. pulchella</i>        | <i>Gaillardia pulchella</i>                                     | 0.250            | 1.07            | 3.13%        | 1            | 4                |
| Blue Vervain                               | <i>Verbena hastata</i>  | 0.025            | 0.86            | 2.53%        | 2            | 5                |
| Blue-eyed Grass, Native Source             | <i>Sisyrinchium campestre</i>                                   | 0.005            | 0.08            | 0.24%        | 1            | 5                |
| Bush Morning Glory, Native Source          | <i>Ipomoea leptophylla</i>                                      | 0.015            | 0.00            | 0.00%        | 2            | 3                |
| Butterfly Milkweed                         | <i>Asclepias tuberosa</i>                                       | 0.020            | 0.03            | 0.09%        | 2            | 5                |
| Canada Goldenrod, Native Source            | <i>Solidago canadensis</i>                                      | 0.004            | 0.65            | 1.91%        | 2            | 5                |
| Canada Milkvetch                           | <i>Astragalus canadensis</i>                                    | 0.080            | 0.50            | 1.46%        | 2            | 4                |
| Canada Tick-trefoil                        | <i>Desmodium canadense</i>                                      | 0.050            | 0.10            | 0.30%        | 2            | 5                |
| Candle Anemone                             | <i>Anemone cylindrica</i>                                       | 0.005            | 0.05            | 0.14%        | 2            | 1                |
| Clasping Coneflower                        | <i>Rudbeckia amplexicaulis</i> or <i>Dracopis amplexicaulis</i> | 0.050            | 1.84            | 5.38%        | 1            | 2                |
| Common Evening Primrose                    | <i>Oenothera biennis</i>  | 0.035            | 1.11            | 3.24%        | 2            | 4                |
| Common Milkweed                            | <i>Asclepias syriaca</i>  | 0.040            | 0.08            | 0.22%        | 2            | 5                |
| Compass Plant                              | <i>Silphium laciniatum</i>                                      | 0.030            | 0.01            | 0.02%        | 2            | 5                |
| Cup Plant, Native Source                   | <i>Silphium perfoliatum</i>                                     | 0.030            | 0.04            | 0.13%        | 2            | 5                |
| Deer Vetch, Native Source                  | <i>Acmispon americanus</i> or <i>Lotus unifoliolatus</i>        | 0.025            | 0.04            | 0.12%        | 3            | 4                |
| Dotted Mint                                | <i>Monarda punctata</i>   | 0.010            | 0.34            | 0.99%        | 2            | 4                |
| Entire-leaved Rosinweed, Native Source     | <i>Silphium integrifolium</i>                                   | 0.025            | 0.02            | 0.06%        | 2            | 5                |
| False Boneset                              | <i>Brickellia eupatorioides</i>                                 | 0.015            | 0.18            | 0.53%        | 3            | 3                |
| False or Oxeye Sunflower                   | <i>Heliopsis helianthoides</i>                                  | 0.100            | 0.24            | 0.70%        | 2            | 5                |
| Four-point Evening Primrose, Native Source | <i>Oenothera rhombipetala</i>                                   | 0.015            | 0.87            | 2.54%        | 2            | 4                |
| Foxglove Beardstongue                      | <i>Penstemon digitalis</i>                                      | 0.020            | 0.18            | 0.54%        | 1            | 5                |
| Golden Alexander, Native Source            | <i>Zizia aurea</i>  | 0.025            | 0.09            | 0.27%        | 1            | 5                |
| Grayhead Coneflower                        | <i>Ratibida pinnata</i>   | 0.070            | 0.69            | 2.01%        | 2            | 4                |
| Heath Aster                                | <i>Symphotrichum ericoides</i>                                  | 0.006            | 0.69            | 2.04%        | 3            | 5                |
| Hoary Vervain, Native Source               | <i>Verbena stricta</i>  | 0.020            | 0.27            | 0.79%        | 2            | 5                |
| Hoary Vetchling, Native Source             | <i>Lathyrus polymorphus</i>                                     | 0.008            | 0.00            | 0.00%        | 1            | 5                |
| Illinois Bundleflower                      | <i>Desmanthus illinoensis</i>                                   | 0.250            | 0.49            | 1.43%        | 2            | 5                |
| Ironweed, Native Source                    | <i>Vernonia fasciculata</i>                                     | 0.015            | 0.13            | 0.39%        | 2            | 5                |
| Jerusalem Artichoke, Native Source         | <i>Helianthus tuberosus</i>                                     | 0.010            | 0.03            | 0.08%        | 3            | 5                |
| Lanceleaf Coreopsis                        | <i>Coreopsis lanceolata</i>                                     | 0.200            | 1.01            | 2.97%        | 2            | 4                |
| Late or Giant Goldenrod, Native Source     | <i>Solidago gigantea</i>  | 0.007            | 1.22            | 3.56%        | 3            | 5                |
| Lemon Mint or Lemon Bee Balm               | <i>Monarda citriodora</i>                                       | 0.050            | 1.65            | 4.84%        | 2            | 3                |
| Maximilian Sunflower                       | <i>Helianthus maximiliani</i>                                   | 0.055            | 0.25            | 0.73%        | 3            | 5                |
| Missouri Goldenrod                         | <i>Solidago missouriensis</i>                                   | 0.006            | 0.87            | 2.55%        | 2            | 5                |
| New England Aster                          | <i>Symphotrichum novae-angliae</i>                              | 0.010            | 0.24            | 0.71%        | 3            | 5                |
| Pale Purple Coneflower                     | <i>Echinacea pallida</i>  | 0.050            | 0.12            | 0.36%        | 2            | 5                |
| Pitcher Sage                               | <i>Salvia azurea</i>  | 0.015            | 0.10            | 0.30%        | 3            | 5                |
| Plains Coreopsis                           | <i>Coreopsis tinctoria</i>                                      | 0.020            | 1.48            | 4.33%        | 2            | 2                |
| Plains Sunflower                           | <i>Helianthus petiolaris</i>                                    | 0.050            | 0.13            | 0.38%        | 3            | 5                |
| Prairie Cinquefoil                         | <i>Drymocallis arguta</i>                                       | 0.003            | 0.30            | 0.89%        | 2            | 3                |
| Purple Coneflower                          | <i>Echinacea purpurea</i>                                       | 0.180            | 0.48            | 1.40%        | 2            | 5                |
| Purple Prairieclover                       | <i>Dalea purpurea</i>   | 0.050            | 0.36            | 1.07%        | 2            | 5                |
| Rough Gayfeather                           | <i>Liatris aspera</i>   | 0.010            | 0.06            | 0.18%        | 3            | 5                |
| Rough Purple Gerardia, Native Source       | <i>Agalinis aspera</i>  | 0.005            | 0.24            | 0.71%        | 2            | 4                |
| Roundhead Lespedeza, Native Source         | <i>Lespedeza capitata</i>                                       | 0.030            | 0.12            | 0.35%        | 3            | 4                |
| Sand Milkweed, Native Source               | <i>Asclepias arenaria</i>                                       | 0.015            | 0.02            | 0.05%        | 2            | 5                |
| Sawtooth Sunflower                         | <i>Helianthus grosseserratus</i>                                | 0.008            | 0.12            | 0.34%        | 3            | 5                |
| Sensitive Briar, Native Source             | <i>Mimosa nuttallii</i>   | 0.020            | 0.02            | 0.06%        | 2            | 3                |
| Shell-leaf Penstemon                       | <i>Penstemon grandiflorus</i>                                   | 0.020            | 0.10            | 0.29%        | 1            | 5                |
| Showy Partridgepea                         | <i>Chamaecrista fasciculata</i>                                 | 0.350            | 0.52            | 1.53%        | 2            | 5                |
| Showy-wand Goldenrod                       | <i>Solidago speciosa</i>  | 0.006            | 0.59            | 1.73%        | 3            | 5                |
| Slender Beardstongue, Native Source        | <i>Penstemon gracilis</i>                                       | 0.003            | 0.74            | 2.18%        | 2            | 5                |
| Smooth Blue Aster                          | <i>Symphotrichum laeve</i>                                      | 0.010            | 0.23            | 0.68%        | 3            | 5                |
| Stiff Goldenrod, Native Source             | <i>Solidago rigida</i>  | 0.010            | 0.15            | 0.45%        | 3            | 5                |
| Stiff Sunflower                            | <i>Helianthus pauciflorus</i>                                   | 0.015            | 0.25            | 0.75%        | 2            | 4                |
| Sullivant's Milkweed, Native Source        | <i>Asclepias sullivantii</i>                                    | 0.005            | 0.01            | 0.02%        | 2            | 5                |

| Species  | Scientific Name                | PLS lbs per acre | Seeds per sq ft | % of Mixture   | Bloom Period | Pollinator Value |
|--|--------------------------------|------------------|-----------------|----------------|--------------|------------------|
| Swamp Milkweed                                     | <i>Asclepias incarnata</i>     | 0.010            | 0.04            | 0.10%          | 2            | 5                |
| Tall Boneset, Native Source                        | <i>Eupatorium altissimum</i>   | 0.008            | 0.15            | 0.43%          | 3            | 4                |
| Tube Penstemon                                     | <i>Penstemon tubaeiflorus</i>  | 0.015            | 0.44            | 1.29%          | 2            | 5                |
| Upright Coneflower                                 | <i>Ratibida columnifera</i>    | 0.060            | 1.02            | 2.97%          | 2            | 2                |
| Velvety Gaura, Native Source                       | <i>Gaura parviflora</i>        | 0.010            | 0.01            | 0.04%          | 2            | 2                |
| Western Yarrow                                     | <i>Achillea millefolium</i>    | 0.010            | 0.65            | 1.92%          | 1            | 2                |
| White Prairieclover                                | <i>Dalea candida</i>           | 0.060            | 0.42            | 1.23%          | 2            | 5                |
| Wild Bergamot                                      | <i>Monarda fistulosa</i>       | 0.025            | 0.73            | 2.14%          | 2            | 5                |
| Willow-leaf Sunflower, Native Source               | <i>Helianthus salicifolius</i> | 0.020            | 0.03            | 0.09%          | 3            | 5                |
| Rice Hulls - Filler for low planting rate mixtures |                                | 3.000            | 0.00            | 0.00%          | --           | --               |
| Grasses Total:                                     |                                | 1.310            | 5.160           | 15.12%         |              |                  |
| Wildflower/Forb/Legume Total:                      |                                | 2.814            | 28.972          | 84.88%         |              |                  |
| Filler Total:                                      |                                | 3.000            | 0.000           | 0.00%          |              |                  |
| <b>Total Mixture:</b>                              |                                | <b>7.124</b>     | <b>34.132</b>   | <b>100.00%</b> |              |                  |

| Bloom Period          | Wildflowers Used in Mixture | % PLS Seeding Rate of Mix |
|-----------------------|-----------------------------|---------------------------|
| 1 = April to May      | 8                           | 11.78%                    |
| 2 = June to July      | 43                          | 56.60%                    |
| 3 = August to October | 19                          | 16.51%                    |
| <b>Total :</b>        | <b>70</b>                   |                           |

|   |                               |
|---|-------------------------------|
| 4.36  | <b>Pollinator Value (0-5)</b> |
| <p>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.</p> |                               |