

Customize Options to Suit Site Conditions

Xeric (dry)
 Mesic (medium)
 Hydric (wet)

 Prairie
 Savanna
 Wetland
 Woodland

 Long Term Program
 Short Term Program

Monarch Preferred Species

 Forage and Biomass (512) Planting

CHOOSE A RATE SPECIFICATION:

lbs/acre PLS (check a mix)
 Seeds/ft2 PLS (design a mix)

To override default cost, enter your cost in the applicable cell.



United States Department of Agriculture

Natural Resources Conservation Service

Criteria Revision Update 5/26/2020
Species Information Update 8/26/2021

CHOOSE YOUR GRASSES

↔ Input quantity ↔

| Common Name | Scientific Name | Lbs / acre PLS | Seeds / ft2 PLS | Coefficient of Conservatism | Estimated Cost (\$/lb) | # Seeds / ft ² @ 1 lb. / ac | Pure Stand PLS Rate lbs / ac | % of Mix | Estimated Cost (\$/ac) | Functional Group |
|--------------------|--------------------------------|-----------------------|-----------------|-----------------------------|------------------------|--|------------------------------|----------|------------------------|-----------------------------|
| *Select Plants | Growth Form | Equivalent rate below | | | | | | | | |
| 1 Bluestem, Big | <i>Andropogon gerardii</i> | 0.40 | | 5 | \$7 | 3.0 | 11.7 | 5.9% | \$3 | Perennial Warm Season Grass |
| | Bunch | | 1.19 | | | | | | | |
| 2 Grama, Sideoats | <i>Bouteloua curtipendula</i> | 0.30 | | 7 | \$9 | 4.4 | 8.0 | 6.5% | \$3 | Perennial Warm Season Grass |
| | Rhizomatous | | 1.31 | | | | | | | |
| 3 Lovegrass, Sand | <i>Eragrostis trichodes</i> | 0.050 | | 5 | \$75 | 35.6 | 1.0 | 8.8% | \$4 | Perennial Warm Season Grass |
| | Bunch | | 1.78 | | | | | | | |
| 4 Switchgrass | <i>Panicum virgatum</i> | 0.25 | | 4 | \$8 | 9.2 | 4.0 | 11.3% | \$2 | Perennial Warm Season Grass |
| | Rhizomatous | | 2.30 | | | | | | | |
| 5 Bluestem, Little | <i>Schizachyrium scoparium</i> | 0.36 | | 5 | \$12 | 5.9 | 6.0 | 10.4% | \$4 | Perennial Warm Season Grass |
| | Bunch | | 2.11 | | | | | | | |
| 6 Indiangrass | <i>Sorghastrum nutans</i> | 0.35 | | 4 | \$6 | 3.9 | 9.0 | 6.7% | \$2 | Perennial Warm Season Grass |
| | Bunch | | 1.37 | | | | | | | |
| 7 | | | | | | | | | \$0.00 | |
| 8 | | | | | | | | | \$0.00 | |
| 9 | | | | | | | | | \$0.00 | |
| 10 | | | | | | | | | \$0.00 | |
| 11 | | | | | | | | | \$0.00 | |
| 12 | | | | | | | | | \$0.00 | |
| 13 | | | | | | | | | \$0.00 | |
| 14 | | | | | | | | | \$0.00 | |
| 15 | | | | | | | | | \$0.00 | |
| 16 | | | | | | | | | \$0.00 | |
| 17 | | | | | | | | | \$0.00 | |
| 18 | | | | | | | | | \$0.00 | |
| 19 | | | | | | | | | \$0.00 | |
| 20 | | | | | | | | | \$0.00 | |
| 21 | | | | | | | | | \$0.00 | |
| 22 | | | | | | | | | \$0.00 | |
| 23 | | | | | | | | | \$0.00 | |
| 24 | | | | | | | | | \$0.00 | |
| 25 | | | | | | | | | \$0.00 | |

| | | | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|--------|--|
| 25 | | | | | | | | | | \$0.00 | |
| 27 | | | | | | | | | | \$0.00 | |
| 28 | | | | | | | | | | \$0.00 | |
| 29 | | | | | | | | | | \$0.00 | |
| 30 | | | | | | | | | | \$0.00 | |

| | | | | | | | |
|-----------------|------------------|----------------|-----------------------------|------------|----------------------------------|-------------|------|
| | Species Richness | lbs / acre PLS | seeds / ft ² PLS | Average CC | ESTIMATED GRAMINOID COST (\$/AC) | OST (\$/AC) | \$18 |
| GRAMINOID TOTAL | 6 | 1.71 | 10.05 | 5.0 | | | |

CHOOSE YOUR FORBS/LEGUMES ↩ Input quantity ↪

| | Common Name <small>*Select Plants</small> | Scientific Name <small>*Select Bloom Period below Scientific Name</small> | Lbs / acre PLS | Seeds / ft ² PLS | Coefficient of Conservatism | Estimated Cost (\$/lb) | # Seeds / ft ² @ 1 lb. / ac | Pure Stand PLS Rate lbs / ac | % of Mix | Estimated Cost (\$/ac) | Functional Group | Monarch Preferred |
|----|--|--|-----------------------|-----------------------------|-----------------------------|------------------------|--|------------------------------|----------|------------------------|------------------------|-------------------|
| | | | Equivalent rate below | | | | | | | | | |
| 1 | Milkweed, Common <small>Input bloom period -></small> | <i>Asclepias syriaca</i> <small>Mid</small> | 0.031 | 0.046 | 0 | \$120 | 1.5 | 23.8 | 0.2% | \$4 | Perennial Forb | X |
| 2 | Milkweed, Butterfly <small>Input bloom period -></small> | <i>Asclepias tuberosa</i> <small>Mid</small> | 0.020 | 0.032 | 5 | \$300 | 1.6 | 22.2 | 0.2% | \$6 | Perennial Forb | X |
| 3 | Milkvetch, Canadian <small>Input bloom period -></small> | <i>Astragalus canadensis</i> <small>Mid</small> | 0.010 | 0.057 | 7 | \$120 | 5.7 | 6.1 | 0.3% | \$1 | Perennial Forb, Legume | |
| 4 | Partridge Pea <small>Input bloom period -></small> | <i>Chamaecrista fasciculata</i> <small>Late</small> | 0.15 | 0.17 | 1 | \$25 | 1.1 | 30.7 | 0.8% | \$4 | Annual Forb, Legume | |
| 5 | Coreopsis, Lanceleaf Tickseed <small>Input bloom period -></small> | <i>Coreopsis lanceolata</i> <small>Mid</small> | 0.10 | 0.73 | 5 | \$1,280 | 7.3 | 4.8 | 3.6% | \$128 | Perennial Forb | X |
| 6 | Prairie Clover, White <small>Input bloom period -></small> | <i>Dalea candida</i> <small>Mid</small> | 0.030 | 0.21 | 9 | \$90 | 7.0 | 5.0 | 1.0% | \$3 | Perennial Forb, Legume | X |
| 7 | Prairie Clover, Purple <small>Input bloom period -></small> | <i>Dalea purpurea</i> <small>Mid</small> | 0.15 | 0.94 | 8 | \$45 | 6.2 | 5.6 | 4.6% | \$7 | Perennial Forb, Legume | X |
| 8 | Bundleflower, Illinois <small>Input bloom period -></small> | <i>Desmanthus illinoensis</i> <small>Mid</small> | 0.10 | 0.14 | 4 | \$45 | 1.4 | 25.1 | 0.7% | \$5 | Perennial Forb, Legume | |
| 9 | Coneflower, Eastern Purple <small>Input bloom period -></small> | <i>Echinacea purpurea</i> <small>Mid</small> | 0.15 | 0.36 | 6 | \$45 | 2.4 | 14.4 | 1.8% | \$7 | Perennial Forb | X |
| 10 | Alumroot <small>Input bloom period -></small> | <i>Heuchera richardsonii</i> <small>Early</small> | 0.0020 | 0.51 | 8 | \$900 | 252.5 | 0.1 | 2.5% | \$2 | Perennial Forb | |
| 11 | Bergamot, Wild <small>Input bloom period -></small> | <i>Monarda fistulosa</i> <small>Mid</small> | 0.040 | 1.10 | 4 | \$150 | 27.5 | 1.3 | 5.4% | \$6 | Perennial Forb | X |
| 12 | Beardtongue, Foxglove <small>Input bloom period -></small> | <i>Penstemon digitalis</i> <small>Early</small> | 0.015 | 0.72 | 4 | \$150 | 47.8 | 0.7 | 3.5% | \$2 | Perennial Forb | |
| 13 | Cinquefoil, Tall <small>Input bloom period -></small> | <i>Potentilla arguta</i> <small>Late</small> | 0.010 | 0.84 | 10 | \$120 | 84.5 | 0.4 | 4.2% | \$1 | Perennial Forb | |
| 14 | Mountainmint, Narrowleaf <small>Input bloom period -></small> | <i>Pycnanthemum tenuifolium</i> <small>Late</small> | 0.0030 | 0.42 | 4 | \$450 | 138.8 | 0.3 | 2.1% | \$1 | Perennial Forb | X |
| 15 | Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -></small> | <i>Ratibida pinnata</i> <small>Mid</small> | 0.020 | 0.29 | 4 | \$60 | 14.3 | 2.4 | 1.4% | \$1 | Perennial Forb | |
| 16 | Susan, Black-eyed <small>Input bloom period -></small> | <i>Rudbeckia hirta</i> <small>Mid</small> | 0.063 | 2.17 | 2 | \$45 | 34.4 | 1.0 | 10.7% | \$3 | Biennial Forb | X |
| 17 | Goldenrod, Gray (Field) <small>Input bloom period -></small> | <i>Solidago nemoralis</i> <small>Late</small> | 0.0030 | 0.33 | 3 | \$600 | 110.2 | 0.3 | 1.6% | \$2 | Perennial Forb | X |
| 18 | Aster, Calico <small>Input bloom period -></small> | <i>Symphotrichum lateriflorum</i> <small>Late</small> | 0.0040 | 0.37 | 2 | \$600 | 91.8 | 0.4 | 1.8% | \$2 | Perennial Forb | X |
| 19 | Aster, New England <small>Input bloom period -></small> | <i>Symphotrichum novae-angliae</i> <small>Late</small> | 0.0050 | 0.12 | 4 | \$300 | 24.2 | 1.4 | 0.6% | \$2 | Perennial Forb | X |
| 20 | Verbena, Hoary <small>Input bloom period -></small> | <i>Verbena stricta</i> <small>Late</small> | 0.030 | 0.37 | 2 | \$75 | 12.3 | 2.9 | 1.8% | \$2 | Perennial Forb | X |
| 21 | Zizia, Golden (Alexander's) <small>Input bloom period -></small> | <i>Zizia aurea</i> <small>Early</small> | 0.070 | 0.31 | 6 | \$120 | 4.4 | 7.9 | 1.5% | \$8 | Perennial Forb | |
| 22 | <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |

| | lbs / acre PLS | seeds / ft ² PLS | Average CC | Species Richness | Floristic Quality Index | | ESTIMATED GRAND TOTAL COST (\$/AC) |
|--------------------|-------------------|--------------------------------|---------------|---------------------|----------------------------|--|---------------------------------------|
| GRAND TOTAL | 2.72 | 20.3 | 4.7 | 27 | 24.6 | | \$214 |

| Illinois NRCS 420 Wildlife Habitat Planting Implementation Requirements Full Seeding | | | |
|--|----------|------|------------------------|
| Requirement | Criteria | Mix | Criteria Met |
| Requirements for sites on < 5% slope | | | |
| Grass Seeds/ft ² , Minimum | 10.0 | 10.1 | Meets Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 5.0 | 10.2 | Meets Criteria |
| Total Seeds/ft ² , Minimum | 20.0 | 20.3 | Meets Criteria |
| Requirements for sites on >=5% slope | | | |
| Grass Seeds/ft ² , Minimum | 20.0 | 10.1 | Does Not Meet Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 5.0 | 10.2 | Meets Criteria |
| Total Seeds/ft ² , Minimum | 30.0 | 20.3 | Does Not Meet Criteria |
| Wildlife Special Purposes Escape and Nesting Cover Requirements | | | |
| Wildlife monoculture native grass (PLS/ft ²) | 30.0 | 10.1 | Does Not Meet Criteria |

| Illinois NRCS 420 Wildlife Habitat Planting Diverse Grass and Forb Stand (>15 desirable Species) Interseeding 1/2 Rate | | | |
|--|----------|------|----------------|
| Requirement | Criteria | Mix | Criteria Met |
| Grass and Forb Interseeding on < 5% slope | | | |
| Grass Seeds/ft ² , Minimum | 5.0 | 10.1 | Meets Criteria |
| Forb & Shrub Seeds/ft ² , Minimum | 2.5 | 10.2 | Meets Criteria |
| Total Seeds/ft ² , minimum | 10.0 | 20.3 | Meets Criteria |
| Forb Only Interseeding on < 5% slope | | | |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 2.5 | 10.2 | Meets Criteria |
| Grass and Forb Interseeding on >= 5% slope | | | |
| Grass Seeds/ft ² , Minimum | 10 | 10.1 | Meets Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 2.5 | 10.2 | Meets Criteria |
| Total Seeds/ft ² , Minimum | 15 | 20.3 | Meets Criteria |
| Forb Only Interseeding on >= 5% slope | | | |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 2.5 | 10.2 | Meets Criteria |

| Illinois NRCS 420 Wildlife Habitat Planting: Pollinator and Monarch Full Seeding Requirements | | | |
|---|----------|---------|------------------------|
| Requirement | Criteria | Mix | Criteria Met |
| All mixes | | | |
| Spring Blooming Forbs & Shrubs, Minimum | 3 | 3 | Meets Criteria |
| Summer Blooming Forbs & Shrubs, Minimum | 3 | 5 | Meets Criteria |
| Fall Blooming Forbs & Shrubs, Minimum | 3 | 5 | Meets Criteria |
| Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass) | Absent | Present | Does Not Meet Criteria |
| Requirements for sites on < 5% slope | | | |
| Grass Seeds/ft ² , Maximum | 5 | 10.1 | Does Not Meet Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 15 | 10.2 | Does Not Meet Criteria |
| Total Seeds/ft ² , Minimum | 20 | 20.3 | Meets Criteria |
| Requirements for sites on >=5% slope | | | |
| Grass Seeds/ft ² , Minimum | 10 | 10.1 | Meets Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 30 | 10.2 | Does Not Meet Criteria |
| Total Seeds/ft ² , Minimum | 40 | 20.3 | Does Not Meet Criteria |
| Additional Requirement for Monarch Plantings | | | |
| Milkweed % PLS seeds/ft ² , Minimum | 1.5% | 0.4% | Does Not Meet Criteria |
| Monarch preferred Forbs % PLS seeds/ft ² , Minimum | 60.0% | 70.4% | Meets Criteria |

| Illinois NRCS 420 Wildlife Habitat Planting: Pollinator and Monarch Interseeding 1/2 Rate | | | |
|---|----------|---------|------------------------|
| Requirement | Criteria | Mix | Criteria Met |
| All mixes | | | |
| Spring Blooming Forbs & Shrubs, Minimum | 3 | 3.0 | Meets Criteria |
| Summer Blooming Forbs & Shrubs, Minimum | 3 | 7.0 | Meets Criteria |
| Fall Blooming Forbs & Shrubs, Minimum | 3 | 6.0 | Meets Criteria |
| Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass) | Absent | Present | Does Not Meet Criteria |
| Grass and Forb Interseeding on < 5% slope | | | |
| Grass Seeds/ft ² , Maximum | 2.5 | 10.1 | Does Not Meet Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 7.5 | 10.2 | Meets Criteria |
| Total Seeds/ft ² , Minimum | 10.0 | 20.3 | Meets Criteria |
| Grass and Forb Interseeding on >= 5% slope | | | |
| Grass Seeds/ft ² , Minimum | 5 | 10.1 | Meets Criteria |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 15.0 | 10.2 | Does Not Meet Criteria |
| Total Seeds/ft ² , Minimum | 20.0 | 20.3 | Meets Criteria |
| Additional Requirement for Monarch Plantings | | | |
| Milkweed % PLS seeds/ft ² , Minimum | 1.5% | 0.4% | Does Not Meet Criteria |
| Monarch preferred Forbs % PLS seeds/ft ² , Min | 60.0% | 70.4% | Meets Criteria |
| Forb Only Interseeding on < 5% slope | | | |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 7.5 | 10.2 | Meets Criteria |
| Forb Only Interseeding on >= 5% slope | | | |
| Forb & Sub-shrub Seeds/ft ² , Minimum | 15.0 | 10.2 | Does Not Meet Criteria |