

Customize Options to Suit Site Conditions

← Pick an Ecoregion

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

Prairie Savanna Wetland Woodland

Long Term Program Short Term Program

Monarch Preferred Species
 Forage and Biomass (512) Planting



**United States
Department of
Agriculture**

Natural Resources Conservation Service

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.

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 |
|-----------------------------|--------------------------------|----------------|-----------------|-----------------------------|------------------------|--|------------------------------|----------|------------------------|-----------------------------|
| | | | | | | | | | | |
| 1 Bluestem, Little | <i>Schizachyrium scoparium</i> | 1.03 | | 5 | \$12 | 5.9 | 6.0 | 16.9% | \$12 | Perennial Warm Season Grass |
| | Bunch | | 6.03 | | | | | | | |
| 2 Grama, Sideoats | <i>Bouteloua curtipendula</i> | 1.38 | | 7 | \$9 | 4.4 | 8.0 | 16.9% | \$12 | Perennial Warm Season Grass |
| | Rhizomatous | | 6.02 | | | | | | | |
| 3 Junegrass, Prairie | <i>Koeleria macrantha</i> | 0.18 | | 7 | \$75 | 33.6 | 1.0 | 17.0% | \$14 | Perennial Cool Season Grass |
| | Bunch | | 6.05 | | | | | | | |
| 4 | | | | | | | | | \$0.00 | |
| 5 Rush, Poverty | <i>Juncus tenuis</i> | 0.017 | | 0 | \$300 | 367.3 | 0.10 | 17.5% | \$5 | Perennial Cool Season Rush |
| | Bunch | | 6.24 | | | | | | | |
| 6 Lovegrass, Sand | <i>Eragrostis trichodes</i> | 0.17 | | 5 | \$75 | 35.6 | 1.0 | 17.0% | \$13 | Perennial Warm Season Grass |
| | Bunch | | 6.05 | | | | | | | |
| 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 | |

| | | | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|--------|--|
| 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) | \$56 |
| GRAMINOID TOTAL | 5 | 2.78 | 30.40 | 4.8 | | | |

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 Alumroot <small>Input bloom period -></small> | <i>Heuchera richardsonii</i> Early | 0.00051 | 0.13 | 8 | \$900 | 252.5 | 0.1 | 0.4% | \$0.46 | Perennial Forb | |
| 2 Ragwort, Golden <small>Input bloom period -></small> | <i>Packera aurea</i> Early | 0.0037 | 0.099 | 4 | \$2,124 | 26.8 | 1.3 | 0.3% | \$8 | Perennial Forb | |
| 3 Bundlesflower, Illinois <small>Input bloom period -></small> | <i>Desmanthus illinoensis</i> Mid | 0.36 | 0.50 | 4 | \$45 | 1.4 | 25.1 | 1.4% | \$16 | Perennial Forb, Legume | |
| 4 Ticktrefoil, Showy <small>Input bloom period -></small> | <i>Desmodium canadense</i> Mid | 0.0074 | 0.015 | 5 | \$150 | 2.0 | 17.3 | 0.0% | \$1 | Perennial Forb, Legume | |
| 5 Aster, Smooth Blue <small>Input bloom period -></small> | <i>Symphotrichum laeve</i> Mid | 0.0060 | 0.11 | 8 | \$300 | 18.4 | 1.9 | 0.3% | \$2 | Perennial Forb | X |
| 6 Bergamot, Wild <small>Input bloom period -></small> | <i>Monarda fistulosa</i> Late | 0.021 | 0.58 | 4 | \$150 | 27.5 | 1.3 | 1.6% | \$3 | Perennial Forb | X |
| 7 Coneflower, Eastern Purple <small>Input bloom period -></small> | <i>Echinacea purpurea</i> | 0.035 | 0.085 | 6 | \$45 | 2.4 | 14.4 | 0.2% | \$2 | Perennial Forb | X |
| 8 Woman's Tobacco (Plantain-Leaved Pu) <small>Input bloom period -></small> | <i>Antennaria plantaginifolia</i> Early | 0.00099 | 0.10 | 4 | \$3,200 | 101.0 | 0.3 | 0.3% | \$3 | Perennial Forb | |
| 9 Verbena, Hoary <small>Input bloom period -></small> | <i>Verbena stricta</i> | 0.0055 | 0.067 | 2 | \$75 | 12.3 | 2.9 | 0.2% | \$0.41 | Perennial Forb | X |
| 10 Mountainmint, Narrowleaf <small>Input bloom period -></small> | <i>Pycnanthemum tenuifolium</i> Mid | 0.0079 | 1.10 | 4 | \$450 | 138.8 | 0.3 | 3.1% | \$4 | Perennial Forb | X |
| 11 Susan, Black-eyed <small>Input bloom period -></small> | <i>Rudbeckia hirta</i> Late | 0.037 | 1.27 | 2 | \$45 | 34.4 | 1.0 | 3.6% | \$2 | Biennial Forb | X |
| 12 Coreopsis, Lanceleaf Tickseed <small>Input bloom period -></small> | <i>Coreopsis lanceolata</i> Mid | 0.027 | 0.20 | 5 | \$1,280 | 7.3 | 4.8 | 0.6% | \$35 | Perennial Forb | X |
| 13 Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -></small> | <i>Ratibida pinnata</i> | 0.0046 | 0.066 | 4 | \$60 | 14.3 | 2.4 | 0.2% | \$0.28 | Perennial Forb | |
| 14 Wild Indigo, White <small>Input bloom period -></small> | <i>Baptisia alba</i> | 0.00096 | 0.00060 | 6 | \$300 | 0.6 | 56.1 | 0.0% | \$0.29 | Perennial Forb, Legume | |
| 15 Oxeye, Smooth (False Sunflower) <small>Input bloom period -></small> | <i>Heliopsis helianthoides</i> | 0.014 | 0.033 | 4 | \$60 | 2.4 | 14.7 | 0.1% | \$0.84 | Perennial Forb | X |
| 16 Partridge Pea <small>Input bloom period -></small> | <i>Chamaecrista fasciculata</i> | 0.053 | 0.060 | 1 | \$25 | 1.1 | 30.7 | 0.2% | \$1 | Annual Forb, Legume | |
| 17 Prairie Clover, Purple <small>Input bloom period -></small> | <i>Dalea purpurea</i> | 0.13 | 0.81 | 8 | \$45 | 6.2 | 5.6 | 2.3% | \$6 | Perennial Forb, Legume | X |
| 18 <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |
| 19 <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |
| 20 <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |
| 21 <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |
| 22 <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |
| 23 <small>Input bloom period -></small> | | | | | | | | | \$0.00 | | |

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|----|-----------------------|--|--|--|--|--|--|--|--|--------|--|
| 24 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 25 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 26 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 27 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 28 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 29 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 30 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 31 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 32 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 33 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 34 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 35 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 36 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 37 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 38 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 39 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |
| 40 | | | | | | | | | | \$0.00 | |
| | Input bloom period -> | | | | | | | | | | |

| | | | | | | | | | | |
|---------------------|------------------|----------------|-----------------------------|------------|-----------------------------|--------------|------|--|--|--|
| | Species Richness | lbs / acre PLS | seeds / ft ² PLS | Average CC | | | | | | |
| FORBS/LEGUMES TOTAL | 17 | 0.71 | 5.23 | 4.6 | ESTIMATED FORB COST (\$/AC) | COST (\$/AC) | \$84 | | | |

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES

| Common Name | Scientific Name <small>Flowering Period</small> | Lbs / acre PLS | Seeds / ft ² PLS | Coefficient of Conservatism | Estimated Cost (\$/lb) | # Seeds / ft ² @ 1 oz. / ac | Pure Stand PLS Rate lbs / ac | % of Mix | Estimated Cost (\$/ac) | Functional Group | Monarch Preferred |
|-------------|--|----------------|-----------------------------|-----------------------------|------------------------|--|------------------------------|----------|------------------------|------------------|-------------------|
| | | | Equivalent rate below | | | | | | \$0.00 | | |
| 1 | Input bloom period -> | | | | | | | | \$0.00 | | |
| 2 | Input bloom period -> | | | | | | | | \$0.00 | | |
| 3 | Input bloom period -> | | | | | | | | \$0.00 | | |
| 4 | Input bloom period -> | | | | | | | | \$0.00 | | |
| 5 | Input bloom period -> | | | | | | | | \$0.00 | | |

| | | | | | | | | | | |
|--------------------------|------------------|----------------|-----------------------------|------------|-------------------------------------|--------------|-----|--|--|--|
| | Species Richness | Lbs / acre PLS | seeds / ft ² PLS | Average CC | | | | | | |
| VINE & WOODY PLANT TOTAL | 0 | 0.00 | 0.00 | 0.0 | ESTIMATED VINE & WOODY COST (\$/AC) | COST (\$/AC) | \$0 | | | |

| | lbs / acre PLS | seeds / ft ² PLS | Average CC | Species Richness | Floristic Quality Index | | ESTIMATED GRAND TOTAL COST (\$/AC) |
|--------------------|-------------------|--------------------------------|---------------|---------------------|----------------------------|--|---------------------------------------|
| GRAND TOTAL | 3.49 | 35.6 | 4.7 | 22 | 22.0 | | \$140 |