

### 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 <sup>2</sup> @ 1 lb. / ac	Pure Stand PLS Rate lbs / ac	% of Mix	Estimated Cost (\$/ac)	Functional Group
1 <b>Bluestem, Little</b>	<i>Schizachyrium scoparium</i>	0.51		5	\$12	5.9	6.0	14.7%	\$6	Perennial Warm Season Grass
	Bunch		2.99							
2 <b>Grama, Sideoats</b>	<i>Bouteloua curtipendula</i>	0.69		7	\$9	4.4	8.0	14.9%	\$6	Perennial Warm Season Grass
	Rhizomatous		3.01							
3 <b>Junegrass, Prairie</b>	<i>Koeleria macrantha</i>	0.089		7	\$75	33.6	1.0	14.8%	\$7	Perennial Cool Season Grass
	Bunch		2.99							
4 <b>Dropseed, Prairie</b>	<i>Sporobolus heterolepis</i>	0.11		9	\$180	27.5	1.3	15.0%	\$20	Perennial Warm Season Grass
	Bunch		3.03							
5 <b>Lovegrass, Sand</b>	<i>Eragrostis trichodes</i>	0.084		5	\$75	35.6	1.0	14.8%	\$6	Perennial Warm Season Grass
	Bunch		2.99							
6									\$0.00	
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 <sup>2</sup> PLS	Average CC	ESTIMATED GRAMINOID COST (\$/AC)	OST (\$/AC)	\$45
GRAMINOID TOTAL	5	1.48	15.01	6.6			

**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 <sup>2</sup> PLS	Coefficient of Conservatism	Estimated Cost (\$/lb)	# Seeds / ft <sup>2</sup> @ 1 lb. / ac	Pure Stand PLS Rate lbs / ac	% of Mix	Estimated Cost (\$/ac)	Functional Group	Monarch Preferred
1 Alumroot	<i>Heuchera richardsonii</i> <small>Early</small>	0.00051	0.13	8	\$900	252.5	0.1	0.6%	\$0.46	Perennial Forb	
2 Ragwort, Golden	<i>Packera aurea</i> <small>Early</small>	0.0038	0.10	4	\$2,124	26.8	1.3	0.5%	\$8	Perennial Forb	
3 Bunchflower, Illinois	<i>Desmanthus illinoensis</i> <small>Mid</small>	0.36	0.50	4	\$45	1.4	25.1	2.5%	\$16	Perennial Forb, Legume	
4 Ticktrefoil, Showy	<i>Desmodium canadense</i> <small>Mid</small>	0.0072	0.015	5	\$150	2.0	17.3	0.1%	\$1	Perennial Forb, Legume	
5 Aster, Smooth Blue	<i>Symphotrichum laeve</i> <small>Mid</small>	0.0062	0.11	8	\$300	18.4	1.9	0.6%	\$2	Perennial Forb	X
6 Bergamot, Wild	<i>Monarda fistulosa</i> <small>Late</small>	0.021	0.58	4	\$150	27.5	1.3	2.9%	\$3	Perennial Forb	X
7 Coneflower, Eastern Purple	<i>Echinacea purpurea</i> <small>Late</small>	0.036	0.087	6	\$45	2.4	14.4	0.4%	\$2	Perennial Forb	X
8 Woman's Tobacco (Plantain-Leaved)	<i>Antennaria plantaginifolia</i> <small>Early</small>	0.00099	0.10	4	\$3,200	101.0	0.3	0.5%	\$3	Perennial Forb	
9 Verbena, Hoary	<i>Verbena stricta</i> <small>Late</small>	0.0055	0.067	2	\$75	12.3	2.9	0.3%	\$0.41	Perennial Forb	X
10 Mountainmint, Narrowleaf	<i>Pycnanthemum tenuifolium</i> <small>Mid</small>	0.0079	1.10	4	\$450	138.8	0.3	5.4%	\$4	Perennial Forb	X
11 Susan, Black-eyed	<i>Rudbeckia hirta</i> <small>Late</small>	0.037	1.27	2	\$45	34.4	1.0	6.3%	\$2	Biennial Forb	X
12 Coreopsis, Lanceleaf Tickseed	<i>Coreopsis lanceolata</i> <small>Mid</small>	0.027	0.20	5	\$1,280	7.3	4.8	1.0%	\$35	Perennial Forb	X
13 Coneflower, Pinnate Prairie (Gray-head)	<i>Ratibida pinnata</i> <small>Late</small>	0.0046	0.066	4	\$60	14.3	2.4	0.3%	\$0.28	Perennial Forb	
14 Wild Indigo, White	<i>Baptisia alba</i> <small>Late</small>	0.00096	0.00060	6	\$300	0.6	56.1	0.0%	\$0.29	Perennial Forb, Legume	
15 Oxeye, Smooth (False Sunflower)	<i>Heliopsis helianthoides</i> <small>Late</small>	0.015	0.036	4	\$60	2.4	14.7	0.2%	\$0.90	Perennial Forb	X
16 Partridge Pea	<i>Chamaecrista fasciculata</i> <small>Late</small>	0.053	0.060	1	\$25	1.1	30.7	0.3%	\$1	Annual Forb, Legume	
17 Prairie Clover, Purple	<i>Dalea purpurea</i> <small>Late</small>	0.13	0.81	8	\$45	6.2	5.6	4.0%	\$6	Perennial Forb, Legume	X
18									\$0.00		
19									\$0.00		
20									\$0.00		
21									\$0.00		
22									\$0.00		
23									\$0.00		

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 <sup>2</sup> PLS	Average CC								
FORBS/LEGUMES TOTAL	17	0.72	5.24	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 <sup>2</sup> PLS	Coefficient of Conservatism	Estimated Cost (\$/lb)	# Seeds / ft <sup>2</sup> @ 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 <sup>2</sup> 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 <sup>2</sup> PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
<b>GRAND TOTAL</b>	2.20	20.2	5.1	22	23.9		\$130