

**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> Bunch	0.17	1.00	5	\$12	5.9	6.0	4.8%	\$2	Perennial Warm Season Grass
2 <b>Grama, Sideoats</b>	<i>Bouteloua curtipendula</i> Rhizomatous	0.23	1.00	7	\$9	4.4	8.0	4.9%	\$2	Perennial Warm Season Grass
3 <b>Junegrass, Prairie</b>	<i>Koeleria macrantha</i> Bunch	0.030	1.01	7	\$75	33.6	1.0	4.9%	\$2	Perennial Cool Season Grass
4 <b>Dropseed, Prairie</b>	<i>Sporobolus heterolepis</i> Bunch	0.036	1.00	9	\$180	27.5	1.3	4.9%	\$7	Perennial Warm Season Grass
5 <b>Lovegrass, Sand</b>	<i>Eragrostis trichodes</i> Bunch	0.028	1.00	5	\$75	35.6	1.0	4.8%	\$2	Perennial Warm Season Grass
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)	\$15
GRAMINOID TOTAL	5	0.49	5.00	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	
		Equivalent rate below										
1 Alumroot <small>Input bloom period -&gt;</small>	<i>Heuchera richardsonii</i> Early	0.0012	0.30	8	\$900	252.5	0.1	1.5%	\$1	Perennial Forb		
2 Ragwort, Golden <small>Input bloom period -&gt;</small>	<i>Packera aurea</i> Early	0.012	0.32	4	\$2,124	26.8	1.3	1.6%	\$25	Perennial Forb		
3 Bunchflower, Illinois <small>Input bloom period -&gt;</small>	<i>Desmanthus illinoensis</i> Mid	0.80	1.12	4	\$45	1.4	25.1	5.4%	\$36	Perennial Forb, Legume		
4 Ticktrefoil, Showy <small>Input bloom period -&gt;</small>	<i>Desmodium canadense</i> Mid	0.020	0.040	5	\$150	2.0	17.3	0.2%	\$3	Perennial Forb, Legume		
5 Aster, Smooth Blue <small>Input bloom period -&gt;</small>	<i>Symphotrichum laeve</i> Mid	0.019	0.35	8	\$300	18.4	1.9	1.7%	\$6	Perennial Forb	X	
6 Bergamot, Wild <small>Input bloom period -&gt;</small>	<i>Monarda fistulosa</i> Late	0.062	1.71	4	\$150	27.5	1.3	8.3%	\$9	Perennial Forb	X	
7 Coneflower, Eastern Purple <small>Input bloom period -&gt;</small>	<i>Echinacea purpurea</i> Late	0.11	0.27	6	\$45	2.4	14.4	1.3%	\$5	Perennial Forb	X	
8 Woman's Tobacco (Plantain-Leaved Pu) <small>Input bloom period -&gt;</small>	<i>Antennaria plantaginifolia</i> Early	0.0030	0.30	4	\$3,200	101.0	0.3	1.5%	\$10	Perennial Forb		
9 Verbena, Hoary <small>Input bloom period -&gt;</small>	<i>Verbena stricta</i> Late	0.018	0.22	2	\$75	12.3	2.9	1.1%	\$1	Perennial Forb	X	
10 Mountainmint, Narrowleaf <small>Input bloom period -&gt;</small>	<i>Pycnanthemum tenuifolium</i> Mid	0.024	3.33	4	\$450	138.8	0.3	16.2%	\$11	Perennial Forb	X	
11 Susan, Black-eyed <small>Input bloom period -&gt;</small>	<i>Rudbeckia hirta</i> Late	0.11	3.79	2	\$45	34.4	1.0	18.4%	\$5	Biennial Forb	X	
12 Coreopsis, Lanceleaf Tickseed <small>Input bloom period -&gt;</small>	<i>Coreopsis lanceolata</i> Mid	0.082	0.60	5	\$1,280	7.3	4.8	2.9%	\$105	Perennial Forb	X	
13 Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -&gt;</small>	<i>Ratibida pinnata</i> Late	0.014	0.20	4	\$60	14.3	2.4	1.0%	\$0.84	Perennial Forb		
14 Wild Indigo, White <small>Input bloom period -&gt;</small>	<i>Baptisia alba</i> Late	0.0032	0.0020	6	\$300	0.6	56.1	0.0%	\$0.96	Perennial Forb, Legume		
15 Oxeye, Smooth (False Sunflower) <small>Input bloom period -&gt;</small>	<i>Heliopsis helianthoides</i> Late	0.042	0.10	4	\$60	2.4	14.7	0.5%	\$3	Perennial Forb	X	
16 Partridge Pea <small>Input bloom period -&gt;</small>	<i>Chamaecrista fasciculata</i> Late	0.16	0.18	1	\$25	1.1	30.7	0.9%	\$4	Annual Forb, Legume		
17 Prairie Clover, Purple <small>Input bloom period -&gt;</small>	<i>Dalea purpurea</i> Late	0.38	2.37	8	\$45	6.2	5.6	11.5%	\$17	Perennial Forb, Legume	X	
18 Milkweed, Common <small>Input bloom period -&gt;</small>	<i>Asclepias syriaca</i> Late	0.24	0.35	0	\$120	1.5	23.8	1.7%	\$29	Perennial Forb	X	
19									\$0.00			
20									\$0.00			
21									\$0.00			
22									\$0.00			
23									\$0.00			

24										\$0.00		
	Input bloom period ->											
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40										\$0.00		
	Input bloom period ->											

	Species Richness	lbs / acre PLS	seeds / ft <sup>2</sup> PLS	Average CC								
FORBS/LEGUMES TOTAL	18	2.10	15.56	4.4		ESTIMATED FORB COST (\$/AC)	COST (\$/AC)	\$271				

**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>	2.59	20.6	4.9	23	23.4		\$286