

**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 <i>*Select Plants</i>	Scientific Name <i>Growth Form</i>	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 Bluestem, Little	<i>Schizachyrium scoparium</i> Bunch	0.35	2.05	5	\$12	5.9	6.0	5.1%	\$4	Perennial Warm Season Grass
2 Grama, Sideoats	<i>Bouteloua curtipendula</i> Rhizomatous	0.46	2.01	7	\$9	4.4	8.0	5.0%	\$4	Perennial Warm Season Grass
3 Junegrass, Prairie	<i>Koeleria macrantha</i> Bunch	0.060	2.02	7	\$75	33.6	1.0	5.0%	\$5	Perennial Cool Season Grass
4 Dropseed, Prairie	<i>Sporobolus heterolepis</i> Bunch	0.076	2.09	9	\$180	27.5	1.3	5.2%	\$14	Perennial Warm Season Grass
5 Lovegrass, Sand	<i>Eragrostis trichodes</i> Bunch	0.057	2.03	5	\$75	35.6	1.0	5.0%	\$4	Perennial Warm Season Grass
6									\$0.00	
7									\$0.00	
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9									\$0.00	
10									\$0.00	
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14									\$0.00	
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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)	\$31
GRAMINOID TOTAL	5	1.00	10.20	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	0.0024	0.61	8	\$900	252.5	0.1	1.5%	\$2	Perennial Forb	
2 Ragwort, Golden <small>Input bloom period -&gt;</small>	<i>Packera aurea</i> Early	0.022	0.59	4	\$2,124	26.8	1.3	1.5%	\$47	Perennial Forb	
3 Bundlesflower, Illinois <small>Input bloom period -&gt;</small>	<i>Desmanthus illinoensis</i> Mid	1.60	2.23	4	\$45	1.4	25.1	5.5%	\$72	Perennial Forb, Legume	
4 Ticktrefoil, Showy <small>Input bloom period -&gt;</small>	<i>Desmodium canadense</i> Mid	0.040	0.081	5	\$150	2.0	17.3	0.2%	\$6	Perennial Forb, Legume	
5 Aster, Smooth Blue <small>Input bloom period -&gt;</small>	<i>Symphotrichum laeve</i> Mid	0.037	0.68	8	\$300	18.4	1.9	1.7%	\$11	Perennial Forb	X
6 Bergamot, Wild <small>Input bloom period -&gt;</small>	<i>Monarda fistulosa</i> Late	0.12	3.31	4	\$150	27.5	1.3	8.2%	\$18	Perennial Forb	X
7 Coneflower, Eastern Purple <small>Input bloom period -&gt;</small>	<i>Echinacea purpurea</i> Late	0.21	0.51	6	\$45	2.4	14.4	1.3%	\$9	Perennial Forb	X
8 Woman's Tobacco (Plantain-Leaved Pu) <small>Input bloom period -&gt;</small>	<i>Antennaria plantaginifolia</i> Early	0.0059	0.60	4	\$3,200	101.0	0.3	1.5%	\$19	Perennial Forb	
9 Verbena, Hoary <small>Input bloom period -&gt;</small>	<i>Verbena stricta</i> Late	0.036	0.44	2	\$75	12.3	2.9	1.1%	\$3	Perennial Forb	X
10 Mountainmint, Narrowleaf <small>Input bloom period -&gt;</small>	<i>Pycnanthemum tenuifolium</i> Mid	0.048	6.66	4	\$450	138.8	0.3	16.5%	\$22	Perennial Forb	X
11 Susan, Black-eyed <small>Input bloom period -&gt;</small>	<i>Rudbeckia hirta</i> Late	0.22	7.58	2	\$45	34.4	1.0	18.7%	\$10	Biennial Forb	X
12 Coreopsis, Lanceleaf Tickseed <small>Input bloom period -&gt;</small>	<i>Coreopsis lanceolata</i> Mid	0.16	1.18	5	\$1,280	7.3	4.8	2.9%	\$205	Perennial Forb	X
13 Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -&gt;</small>	<i>Ratibida pinnata</i> Late	0.028	0.40	4	\$60	14.3	2.4	1.0%	\$2	Perennial Forb	
14 Wild Indigo, White <small>Input bloom period -&gt;</small>	<i>Baptisia alba</i> Late	0.0064	0.0040	6	\$300	0.6	56.1	0.0%	\$2	Perennial Forb, Legume	
15 Oxeye, Smooth (False Sunflower) <small>Input bloom period -&gt;</small>	<i>Heliopsis helianthoides</i> Late	0.084	0.20	4	\$60	2.4	14.7	0.5%	\$5	Perennial Forb	X
16 Partridge Pea <small>Input bloom period -&gt;</small>	<i>Chamaecrista fasciculata</i> Late	0.32	0.36	1	\$25	1.1	30.7	0.9%	\$8	Annual Forb, Legume	
17 Prairie Clover, Purple <small>Input bloom period -&gt;</small>	<i>Dalea purpurea</i> Late	0.77	4.81	8	\$45	6.2	5.6	11.9%	\$35	Perennial Forb, Legume	X
18									\$0.00		
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40											\$0.00		
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	Species Richness	lbs / acre PLS	seeds / ft <sup>2</sup> PLS	Average CC									
FORBS/LEGUMES TOTAL	17	3.71	30.24	4.6		ESTIMATED FORB COST (\$/AC)	COST (\$/AC)	\$475					

**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>	4.71	40.4	5.1	22	23.9		\$505