

**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>	1.03		5	\$12	5.9	6.0	17.0%	\$12	Perennial Warm Season Grass
	Bunch		6.03							
2 <b>Grama, Sideoats</b>	<i>Bouteloua curtipendula</i>	1.38		7	\$9	4.4	8.0	17.0%	\$12	Perennial Warm Season Grass
	Rhizomatous		6.02							
3 <b>Junegrass, Prairie</b>	<i>Koeleria macrantha</i>	0.18		7	\$75	33.6	1.0	17.1%	\$14	Perennial Cool Season Grass
	Bunch		6.05							
4 <b>Dropseed, Sand</b>	<i>Sporobolus cryptandrus</i>	0.053		4	\$15	114.8	0.3	17.2%	\$0.80	Perennial Warm Season Grass
	Bunch		6.08							
5									\$0.00	
6 <b>Lovegrass, Sand</b>	<i>Eragrostis trichodes</i>	0.17		5	\$75	35.6	1.0	17.1%	\$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	
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20									\$0.00	
21									\$0.00	
22									\$0.00	
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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)	\$52
GRAMINOID TOTAL	5	2.81	30.24	5.6			

**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 <small>Input bloom period -&gt;</small>	<i>Heuchera richardsonii</i> <small>Early</small>	0.00051	0.13	8	\$900	252.5	0.1	0.4%	\$0.46	Perennial Forb	
2 Ragwort, Golden <small>Input bloom period -&gt;</small>	<i>Packera aurea</i> <small>Early</small>	0.0037	0.099	4	\$2,124	26.8	1.3	0.3%	\$8	Perennial Forb	
3 Bunchflower, Illinois <small>Input bloom period -&gt;</small>	<i>Desmanthus illinoensis</i> <small>Mid</small>	0.36	0.50	4	\$45	1.4	25.1	1.4%	\$16	Perennial Forb, Legume	
4 Ticktrefoil, Showy <small>Input bloom period -&gt;</small>	<i>Desmodium canadense</i> <small>Mid</small>	0.0074	0.015	5	\$150	2.0	17.3	0.0%	\$1	Perennial Forb, Legume	
5 Aster, Smooth Blue <small>Input bloom period -&gt;</small>	<i>Symphotrichum laeve</i> <small>Mid</small>	0.0060	0.11	8	\$300	18.4	1.9	0.3%	\$2	Perennial Forb	X
6 Bergamot, Wild <small>Input bloom period -&gt;</small>	<i>Monarda fistulosa</i> <small>Late</small>	0.021	0.58	4	\$150	27.5	1.3	1.6%	\$3	Perennial Forb	X
7 Coneflower, Eastern Purple <small>Input bloom period -&gt;</small>	<i>Echinacea purpurea</i> <small>Late</small>	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 -&gt;</small>	<i>Antennaria plantaginifolia</i> <small>Early</small>	0.00099	0.10	4	\$3,200	101.0	0.3	0.3%	\$3	Perennial Forb	
9 Verbena, Hoary <small>Input bloom period -&gt;</small>	<i>Verbena stricta</i> <small>Late</small>	0.0055	0.067	2	\$75	12.3	2.9	0.2%	\$0.41	Perennial Forb	X
10 Mountainmint, Narrowleaf <small>Input bloom period -&gt;</small>	<i>Pycnanthemum tenuifolium</i> <small>Mid</small>	0.0079	1.10	4	\$450	138.8	0.3	3.1%	\$4	Perennial Forb	X
11 Susan, Black-eyed <small>Input bloom period -&gt;</small>	<i>Rudbeckia hirta</i> <small>Late</small>	0.037	1.27	2	\$45	34.4	1.0	3.6%	\$2	Biennial Forb	X
12 Coreopsis, Lanceleaf Tickseed <small>Input bloom period -&gt;</small>	<i>Coreopsis lanceolata</i> <small>Mid</small>	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 -&gt;</small>	<i>Ratibida pinnata</i> <small>Late</small>	0.0046	0.066	4	\$60	14.3	2.4	0.2%	\$0.28	Perennial Forb	
14 Wild Indigo, White <small>Input bloom period -&gt;</small>	<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) <small>Input bloom period -&gt;</small>	<i>Heliopsis helianthoides</i> <small>Late</small>	0.014	0.033	4	\$60	2.4	14.7	0.1%	\$0.84	Perennial Forb	X
16 Partridge Pea <small>Input bloom period -&gt;</small>	<i>Chamaecrista fasciculata</i> <small>Late</small>	0.053	0.060	1	\$25	1.1	30.7	0.2%	\$1	Annual Forb, Legume	
17 Prairie Clover, Purple <small>Input bloom period -&gt;</small>	<i>Dalea purpurea</i> <small>Late</small>	0.13	0.81	8	\$45	6.2	5.6	2.3%	\$6	Perennial Forb, Legume	X
18 <small>Input bloom period -&gt;</small>									\$0.00		
19 <small>Input bloom period -&gt;</small>									\$0.00		
20 <small>Input bloom period -&gt;</small>									\$0.00		
21 <small>Input bloom period -&gt;</small>									\$0.00		
22 <small>Input bloom period -&gt;</small>									\$0.00		
23 <small>Input bloom period -&gt;</small>									\$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	ESTIMATED FORB COST (\$/AC)	COST (\$/AC)	\$84
<b>FORBS/LEGUMES TOTAL</b>	17	0.71	5.23	4.6			

**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	ESTIMATED VINE & WOODY COST (\$/AC)	COST (\$/AC)	\$0
<b>VINE &amp; WOODY PLANT TOTAL</b>	0	0.00	0.00	0.0			

	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>	3.53	35.5	4.9	22	22.8		\$136