

**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

**CHOOSE A RATE SPECIFICATION:**

lbs/acre PLS (check a mix)    Seeds/ft2 PLS (design a mix)



**United States  
Department of  
Agriculture**

To override default cost, enter your cost in the applicable cell.

**Natural Resources Conservation Service**

Criteria Revision Update 5/26/2020  
Species Information Update 5/26/2020

**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
		Equivalent rate below								
1 <b>Bluestem, Little</b>	<i>Schizachyrium scoparium</i>	0.60		5	\$12	5.9	6.0	17.5%	\$7	Perennial Warm Season Grass
	Bunch		3.51							
2									\$0.00	
3 <b>Dropseed, Composite</b>	<i>Sporobolus compositus</i>	0.25		3	\$17	11.0	3.2	13.7%	\$4	Perennial Warm Season Grass
	Bunch		2.75							
4 <b>Dropseed, Sand</b>	<i>Sporobolus cryptandrus</i>	0.0080		4	\$15	114.8	0.3	4.6%	\$0.12	Perennial Warm Season Grass
	Bunch		0.92							
5 <b>Junegrass, Prairie</b>	<i>Koeleria macrantha</i>	0.040		7	\$75	33.6	1.0	6.7%	\$3	Perennial Cool Season Grass
	Bunch		1.35							
6 <b>Grama, Blue</b>	<i>Bouteloua gracilis</i>	0.040		5	\$15	16.3	2.1	3.2%	\$0.60	Perennial Warm Season Grass
	Bunch		0.65							
7 <b>Grama, Sideoats</b>	<i>Bouteloua curtipendula</i>	0.20		7	\$9	4.4	8.0	4.3%	\$2	Perennial Warm Season Grass
	Rhizomatous		0.87							
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	

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)	COST (\$/AC)	\$17
GRAMINOID TOTAL		6	1.14	10.06	5.2						

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	Zizia, Golden (Alexander's) <small>Input bloom period -&gt; Early</small>	0.020	0.088	6	\$120	4.4	7.9	0.4%	\$2	Perennial Forb	
2	Aster, Heath <small>Input bloom period -&gt; Late</small>	0.0020	0.15	3	\$1,600	73.5	0.5	0.7%	\$3	Perennial Forb	X
3	Aster, New England <small>Input bloom period -&gt; Late</small>	0.0020	0.048	4	\$300	24.2	1.4	0.2%	\$0.60	Perennial Forb	X
4	Aster, Smooth Blue <small>Input bloom period -&gt; Late</small>	0.0020	0.037	8	\$300	18.4	1.9	0.2%	\$0.60	Perennial Forb	X
5	Beardtongue, Foxglove <small>Input bloom period -&gt; Early</small>	0.0050	0.24	4	\$150	47.8	0.7	1.2%	\$0.75	Perennial Forb	
6	Bergamot, Wild <small>Input bloom period -&gt; Mid</small>	0.022	0.61	4	\$150	27.5	1.3	3.0%	\$3	Perennial Forb	X
7	Blazing Star, Dense <small>Input bloom period -&gt; Mid</small>	0.010	0.040	7	\$150	4.0	8.7	0.2%	\$2	Perennial Forb	X
8	Cinquefoil, Tall <small>Input bloom period -&gt; Late</small>	0.0070	0.59	10	\$120	84.5	0.4	2.9%	\$0.84	Perennial Forb	
9	Coneflower, pinnate prairie (gray-head) <small>Input bloom period -&gt; Mid</small>	0.010	0.14	4	\$60	14.3	2.4	0.7%	\$0.60	Perennial Forb	
10	Coneflower, Eastern purple <small>Input bloom period -&gt; Mid</small>	0.10	0.24	6	\$45	2.4	14.4	1.2%	\$5	Perennial Forb	X
11	Coreopsis, Lanceleaf tickseed <small>Input bloom period -&gt; Mid</small>	0.15	1.10	5	\$1,280	7.3	4.8	5.5%	\$192	Perennial Forb	X
12	Culver's Root <small>Input bloom period -&gt; Mid</small>	0.0030	0.83	6	\$1,200	275.5	0.1	4.1%	\$4	Perennial Forb	X
13	Goldenrod, Gray (Field) <small>Input bloom period -&gt; Late</small>	0.0030	0.33	3	\$600	110.2	0.3	1.6%	\$2	Perennial Forb	X
14	Goldenrod, Stiff <small>Input bloom period -&gt; Late</small>	0.010	0.15	4	\$225	15.1	2.3	0.7%	\$2	Perennial Forb	X
15	Bundleflower, Illinois <small>Input bloom period -&gt; Mid</small>	0.10	0.14	4	\$45	1.4	25.1	0.7%	\$5	Perennial Forb	
16	Lupine, Sundial (Wild) <small>Input bloom period -&gt; Early</small>	0.15	0.077	8	\$800	0.5	68.1	0.4%	\$120	Perennial Forb, Legume	
17	Milkvetch, Canadian <small>Input bloom period -&gt; Mid</small>	0.020	0.11	7	\$120	5.7	6.1	0.6%	\$2	Perennial Forb, Legume	
18	Milkweed, Butterfly <small>Input bloom period -&gt; Mid</small>	0.010	0.016	5	\$300	1.6	22.2	0.1%	\$3	Perennial Forb	X
19	Milkweed, Common <small>Input bloom period -&gt; Mid</small>	0.020	0.029	0	\$120	1.5	23.8	0.1%	\$2	Perennial Forb	X
20	Beebalm, Spotted (Horsemint) <small>Input bloom period -&gt; Late</small>	0.020	0.66	5	\$225	33.1	1.1	3.3%	\$5	Biennial Forb	X
21	Mountainmint, Virginia (Common) <small>Input bloom period -&gt; Late</small>	0.0010	0.081	5	\$450	80.8	0.4	0.4%	\$0.45	Perennial Forb	X
22	Mountainmint, Narrowleaf <small>Input bloom period -&gt; Late</small>	0.010	1.39	4	\$450	138.8	0.3	6.9%	\$5	Perennial Forb	X

23	Partridge Pea	<i>Chamaecrista fasciculata</i>	0.15		1	\$25	1.1	30.7	0.8%	\$4	Annual Forb, Legume	
	Input bloom period ->	Late		0.17								
24	Prairie Clover, Purple	<i>Dalea purpurea</i>	0.030		8	\$45	6.2	5.6	0.9%	\$1	Perennial Forb, Legume	X
	Input bloom period ->	Mid		0.19								
25	Prairie Clover, White	<i>Dalea candida</i>	0.010		9	\$90	7.0	5.0	0.3%	\$0.90	Perennial Forb, Legume	X
	Input bloom period ->	Mid		0.070								
26	Spiderwort, Bluejacket (Ohio)	<i>Tradescantia ohiensis</i>	0.0010		3	\$300	2.9	11.9	0.0%	\$0.30	Perennial Forb	
	Input bloom period ->	Early		0.0029								
27	Susan, Black-eyed	<i>Rudbeckia hirta</i>	0.063		2	\$45	34.4	1.0	10.8%	\$3	Biennial Forb	X
	Input bloom period ->	Mid		2.17								
28	Susan, Browneyed	<i>Rudbeckia triloba</i>	0.010		3	\$90	12.9	2.7	0.6%	\$0.90	Biennial Forb	X
	Input bloom period ->	Late		0.13								
29	Verbena, Hoary	<i>Verbena stricta</i>	0.010		2	\$75	12.3	2.9	0.6%	\$0.75	Perennial Forb	X
	Input bloom period ->	Mid		0.12								
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	ESTIMATED FORB COST (\$/AC)			COST (\$/AC)	\$370	
FORBS/LEGUMES TOTAL			29	0.95	9.95	4.8						

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES												
Common Name	Scientific Name Flowering Period	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
1	Leadplant	<i>Amorpha canescens</i>	0.015		8	\$225.00	6	6	0.0%	\$3	Sub-Shrub, Legume	X
	Input bloom period ->		0.094							\$0.00		
2										\$0.00		
	Input bloom period ->											
3										\$0.00		
	Input bloom period ->											
4										\$0.00		
	Input bloom period ->											
5										\$0.00		
	Input bloom period ->											
			Species Richness	Lbs / acre PLS	seeds / ft <sup>2</sup> PLS	Average CC	ESTIMATED VINE & WOODY COST (\$/AC)			COST (\$/AC)	\$3	
VINE & WOODY PLANT TOTAL			1	0.02	0.09	8.0						

	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>	2.10	20.1	5.0	36	29.8		\$391

Illinois NRCS 327 Conservation Cover Job Sheet Requirements Full Seeding			
Requirement	Criteria	Mix	Criteria Met
<b>Requirements for sites on &lt; 5% slope</b>			
Grass Seeds/ft <sup>2</sup> , Minimum	10.0	10.1	Meets Criteria
Forb & Sub-shrub Seeds/ft <sup>2</sup> , Minimum	5.0	10.0	Meets Criteria
Total Seeds/ft <sup>2</sup> , Minimum	20.0	20.1	Meets Criteria
<b>Requirements for sites on &gt;=5% slope</b>			
Grass Seeds/ft <sup>2</sup> , Minimum	20.0	10.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft <sup>2</sup> , Minimum	5.0	10.0	Meets Criteria
Total Seeds/ft <sup>2</sup> , Minimum	30.0	20.1	Does Not Meet Criteria
<b>Wildlife Special Purposes Escape and Nesting Cover Requirements</b>			
Wildlife monoculture native grass (PLS/ft <sup>2</sup> )	30.0	10.1	Does Not Meet Criteria

Illinois NRCS 327 Conservation Cover Diverse Grass and Forb Stand (>15 desirable Species) Interseeding ½ Rate			
Requirement	Criteria	Mix	Criteria Met
<b>Grass and Forb Interseeding on &lt; 5% slope</b>			
Grass Seeds/ft <sup>2</sup> , Minimum	5.0	10.1	Meets Criteria
Forb & Shrub Seeds/ft <sup>2</sup> , Minimum	2.5	10.0	Meets Criteria
Total Seeds/ft <sup>2</sup> , minimum	10.0	20.1	Meets Criteria
<b>Forb Only Interseeding on &lt; 5% slope</b>			
Forb & Sub-shrub Seeds/ft <sup>2</sup> , Minimum	2.5	10.0	Meets Criteria
<b>Grass and Forb Interseeding on &gt;= 5% slope</b>			
Grass Seeds/ft <sup>2</sup> , Minimum	10	10.1	Meets Criteria
Forb & Sub-shrub Seeds/ft <sup>2</sup> , Minimum	2.5	10.0	Meets Criteria
Total Seeds/ft <sup>2</sup> , Minimum	15	20.1	Meets Criteria
<b>Forb Only Interseeding on &gt;= 5% slope</b>			
Forb & Sub-shrub Seeds/ft <sup>2</sup> , Minimum	2.5	10.0	Meets Criteria