

**Customize Options to Suit Site Conditions**

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**

**Natural Resources Conservation Service**

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

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, Big</b>	<b><i>Andropogon gerardii</i></b>	0.30		5	\$7	3.0	11.7	4.5%	\$2	Perennial Warm Season Grass
	Bunch		0.90							
2 <b>Bluestem, Little</b>	<b><i>Schizachyrium scoparium</i></b>	0.30		5	\$12	5.9	6.0	8.8%	\$4	Perennial Warm Season Grass
	Bunch		1.76							
3									\$0.00	
4 <b>Dropseed, Composite</b>	<b><i>Sporobolus compositus</i></b>	0.20		3	\$17	11.0	3.2	11.0%	\$3	Perennial Warm Season Grass
	Bunch		2.20							
5 <b>Indiangrass</b>	<b><i>Sorghastrum nutans</i></b>	0.25		4	\$6	3.9	9.0	4.9%	\$2	Perennial Warm Season Grass
	Bunch		0.98							
6 <b>Junegrass, Prairie</b>	<b><i>Koeleria macrantha</i></b>	0.030		7	\$75	33.6	1.0	5.0%	\$2	Perennial Cool Season Grass
	Bunch		1.01							
7 <b>Grama, Sideoats</b>	<b><i>Bouteloua curtipendula</i></b>	0.20		7	\$9	4.4	8.0	4.4%	\$2	Perennial Warm Season Grass
	Rhizomatous		0.87							
8 <b>Switchgrass</b>	<b><i>Panicum virgatum</i></b>	0.25		4	\$8	9.2	4.0	11.4%	\$2	Perennial Warm Season Grass
	Rhizomatous		2.30							
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		7	1.53	10.01	5.0						

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)	<i>Zizia aurea</i>	0.020		6	\$120	4.4	7.9	0.4%	\$2	Perennial Forb	
	Input bloom period -> Early		0.088								
2 Aster, Heath	<i>Symphotrichum ericoides</i>	0.0020		3	\$1,600	73.5	0.5	0.7%	\$3	Perennial Forb	X
	Input bloom period -> Late		0.15								
3 Aster, New England	<i>Symphotrichum novae-angliae</i>	0.0020		4	\$300	24.2	1.4	0.2%	\$0.60	Perennial Forb	X
	Input bloom period -> Late		0.048								
4 Aster, Smooth Blue	<i>Symphotrichum laeve</i>	0.0020		8	\$300	18.4	1.9	0.2%	\$0.60	Perennial Forb	X
	Input bloom period -> Late		0.037								
5 Beardtongue, Foxglove	<i>Penstemon digitalis</i>	0.0050		4	\$150	47.8	0.7	1.2%	\$0.75	Perennial Forb	
	Input bloom period -> Early		0.24								
6 Bergamot, Wild	<i>Monarda fistulosa</i>	0.022		4	\$150	27.5	1.3	3.0%	\$3	Perennial Forb	X
	Input bloom period -> Mid		0.61								
7 Blazing Star, Dense	<i>Liatris spicata</i>	0.010		7	\$150	4.0	8.7	0.2%	\$2	Perennial Forb	X
	Input bloom period -> Mid		0.040								
8 Cinquefoil, Tall	<i>Potentilla arguta</i>	0.0070		10	\$120	84.5	0.4	2.9%	\$0.84	Perennial Forb	
	Input bloom period -> Late		0.59								
9 Coneflower, pinnate prairie (gray-head)	<i>Ratibida pinnata</i>	0.010		4	\$60	14.3	2.4	0.7%	\$0.60	Perennial Forb	
	Input bloom period -> Mid		0.14								
10 Coneflower, Eastern purple	<i>Echinacea purpurea</i>	0.10		6	\$45	2.4	14.4	1.2%	\$5	Perennial Forb	X
	Input bloom period -> Mid		0.24								
11 Coreopsis, Lanceleaf tickseed	<i>Coreopsis lanceolata</i>	0.15		5	\$1,280	7.3	4.8	5.5%	\$192	Perennial Forb	X
	Input bloom period -> Mid		1.10								
12 Culver's Root	<i>Veronicastrum virginicum</i>	0.0030		6	\$1,200	275.5	0.1	4.1%	\$4	Perennial Forb	X
	Input bloom period -> Mid		0.83								
13 Goldenrod, Gray (Field)	<i>Solidago nemoralis</i>	0.0030		3	\$600	110.2	0.3	1.6%	\$2	Perennial Forb	X
	Input bloom period -> Late		0.33								
14 Goldenrod, Stiff	<i>Oligoneuron rigidum</i>	0.010		4	\$225	15.1	2.3	0.8%	\$2	Perennial Forb	X
	Input bloom period -> Late		0.15								
15 Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	0.10		4	\$45	1.4	25.1	0.7%	\$5	Perennial Forb	
	Input bloom period -> Mid		0.14								
16 Lupine, Sundial (Wild)	<i>Lupinus perennis</i>	0.15		8	\$800	0.5	68.1	0.4%	\$120	Perennial Forb, Legume	
	Input bloom period -> Early		0.077								
17 Milkvetch, Canadian	<i>Astragalus canadensis</i>	0.020		7	\$120	5.7	6.1	0.6%	\$2	Perennial Forb, Legume	
	Input bloom period -> Mid		0.11								
18 Milkweed, Butterfly	<i>Asclepias tuberosa</i>	0.010		5	\$300	1.6	22.2	0.1%	\$3	Perennial Forb	X
	Input bloom period -> Mid		0.016								
19 Milkweed, Common	<i>Asclepias syriaca</i>	0.020		0	\$120	1.5	23.8	0.1%	\$2	Perennial Forb	X
	Input bloom period -> Mid		0.029								
20 Beebalm, Spotted (Horsemint)	<i>Monarda punctata</i>	0.020		5	\$225	33.1	1.1	3.3%	\$5	Biennial Forb	X
	Input bloom period -> Late		0.66								
21 Mountainmint, Virginia (Common)	<i>Pycnanthemum virginianum</i>	0.0010		5	\$450	80.8	0.4	0.4%	\$0.45	Perennial Forb	X
	Input bloom period -> Late		0.081								
22 Mountainmint, Narrowleaf	<i>Pycnanthemum tenuifolium</i>	0.010		4	\$450	138.8	0.3	6.9%	\$5	Perennial Forb	X
	Input bloom period -> Late		1.39								

23	Partridge Pea	<i>Chamaecrista fasciculata</i>	0.15		1	\$25	1.1	30.7	0.9%	\$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		
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35										\$0.00		
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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>	2.50	20.1	4.9	37	30.1		\$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	10.0	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	10.0	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	10.0	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	10.0	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	10.0	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