

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)

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



**United States
Department of
Agriculture**

Natural Resources Conservation Service

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 ² @ 1 lb. / ac	Pure Stand PLS Rate lbs / ac	% of Mix	Estimated Cost (\$/ac)	Functional Group
		Equivalent rate below								
1									\$0.00	
2									\$0.00	
3									\$0.00	
4									\$0.00	
5									\$0.00	
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	

25									\$0.00	
27									\$0.00	
28									\$0.00	
29									\$0.00	
30									\$0.00	
		Species Richness	lbs / acre PLS	seeds / ft ² PLS	Average CC	ESTIMATED GRAMINOID COST (\$/AC)			OST (\$/AC)	\$0
GRAMINOID TOTAL		0	0.00	0.00	0.0					

CHOOSE YOUR FORBS/LEGUMES											
↩ Input quantity ↪											
Common Name *Select Plants	Scientific Name *Select Bloom Period below Scientific Name	Lbs / acre PLS	Seeds / ft ² PLS	Coefficient of Conservatism	Estimated Cost (\$/lb)	# Seeds / ft ² @ 1 lb. / ac	Pure Stand PLS Rate lbs / ac	% of Mix	Estimated Cost (\$/ac)	Functional Group	Monarch Preferred
		Equivalent rate below									
1 Milkvetch, Canadian Input bloom period -> Mid	<i>Astragalus canadensis</i>	0.020	0.11	7	\$120	5.7	6.1	1.1%	\$2	Perennial Forb, Legume	
2 Partridge Pea Input bloom period -> Mid	<i>Chamaecrista fasciculata</i>	0.15	0.17	1	\$25	1.1	30.7	1.7%	\$4	Annual Forb, Legume	
3 Prairie Clover, White Input bloom period -> Mid	<i>Dalea candida</i>	0.010	0.070	9	\$90	7.0	5.0	0.7%	\$0.90	Perennial Forb, Legume	X
4 Prairie Clover, Purple Input bloom period -> Late	<i>Dalea purpurea</i>	0.030	0.19	8	\$45	6.2	5.6	1.9%	\$1	Perennial Forb, Legume	X
5 Bundleflower, Illinois Input bloom period -> Mid	<i>Desmanthus illinoensis</i>	0.10	0.14	4	\$45	1.4	25.1	1.4%	\$5	Perennial Forb, Legume	
6 Ticktrefoil, Showy Input bloom period -> Mid	<i>Desmodium canadense</i>	0.10	0.20	5	\$150	2.0	17.3	2.0%	\$15	Perennial Forb, Legume	
7 Milkweed, Common Input bloom period -> Mid	<i>Asclepias syriaca</i>	0.020	0.029	0	\$120	1.5	23.8	0.3%	\$2	Perennial Forb	X
8 Milkweed, Butterfly Input bloom period -> Mid	<i>Asclepias tuberosa</i>	0.010	0.016	5	\$300	1.6	22.2	0.2%	\$3	Perennial Forb	X
9 Coreopsis, Lanceleaf Tickseed Input bloom period -> Mid	<i>Coreopsis lanceolata</i>	0.20	1.47	5	\$1,280	7.3	4.8	14.5%	\$256	Perennial Forb	X
10 Coneflower, Eastern Purple Input bloom period -> Mid	<i>Echinacea purpurea</i>	0.10	0.24	6	\$45	2.4	14.4	2.4%	\$5	Perennial Forb	X
11 Blazing Star, Dense Input bloom period -> Mid	<i>Liatris spicata</i>	0.010	0.040	7	\$150	4.0	8.7	0.4%	\$2	Perennial Forb	X
12 Bergamot, Wild Input bloom period -> Late	<i>Monarda fistulosa</i>	0.030	0.83	4	\$150	27.5	1.3	8.2%	\$5	Perennial Forb	X
13 Goldenrod, Stiff Input bloom period -> Late	<i>Oligoneuron rigidum</i>	0.010	0.15	4	\$225	15.1	2.3	1.5%	\$2	Perennial Forb	X
14 Beardtongue, Foxglove Input bloom period -> Early	<i>Penstemon digitalis</i>	0.0050	0.24	4	\$150	47.8	0.7	2.4%	\$0.75	Perennial Forb	
15 Cinquefoil, Tall Input bloom period -> Mid	<i>Potentilla arguta</i>	0.010	0.84	10	\$120	84.5	0.4	8.4%	\$1	Perennial Forb	
16 Mountainmint, Narrowleaf Input bloom period -> Late	<i>Pycnanthemum tenuifolium</i>	0.010	1.39	4	\$450	138.8	0.3	13.7%	\$5	Perennial Forb	X
17 Mountainmint, Virginia (Common) Input bloom period -> Late	<i>Pycnanthemum virginianum</i>	0.0010	0.081	5	\$450	80.8	0.4	0.8%	\$0.45	Perennial Forb	X
18 Coneflower, Pinnate Prairie (Gray-headed) Input bloom period -> Mid	<i>Ratibida pinnata</i>	0.010	0.14	4	\$60	14.3	2.4	1.4%	\$0.60	Perennial Forb	
19 Susan, Black-eyed Input bloom period -> Mid	<i>Rudbeckia hirta</i>	0.063	2.17	2	\$45	34.4	1.0	21.5%	\$3	Biennial Forb	X
20 Susan, Browneyed Input bloom period -> Late	<i>Rudbeckia triloba</i>	0.010	0.13	3	\$90	12.9	2.7	1.3%	\$0.90	Biennial Forb	X
21 Goldenrod, Gray (Field) Input bloom period -> Late	<i>Solidago nemoralis</i>	0.0030	0.33	3	\$600	110.2	0.3	3.3%	\$2	Perennial Forb	X
22 Aster, Smooth Blue Input bloom period -> Late	<i>Symphotrichum laeve</i>	0.0020	0.037	8	\$300	18.4	1.9	0.4%	\$0.60	Perennial Forb	X

23	Aster, Calico	<i>Symphotrichum lateriflorum</i>	0.0050		2	\$600	91.8	0.4	4.5%	\$3	Perennial Forb	X
	Input bloom period ->	Late		0.46								
24	Aster, New England	<i>Symphotrichum novae-angliae</i>	0.0020		4	\$300	24.2	1.4	0.5%	\$0.60	Perennial Forb	X
	Input bloom period ->	Late		0.048								
25	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								
26	Verbena, Hoary	<i>Verbena stricta</i>	0.010		2	\$75	12.3	2.9	1.2%	\$0.75	Perennial Forb	X
	Input bloom period ->	Late		0.12								
27	Culver's Root	<i>Veronicastrum virginicum</i>	0.0010		6	\$1,200	275.5	0.1	2.7%	\$1	Perennial Forb	X
	Input bloom period ->	Mid		0.28								
28	Zizia, Golden (Alexander's)	<i>Zizia aurea</i>	0.020		6	\$120	4.4	7.9	0.9%	\$2	Perennial Forb	
	Input bloom period ->	Early		0.088								
29										\$0.00		
	Input bloom period ->											
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 ² PLS	Average CC				ESTIMATED FORB COST (\$/AC)	COST (\$/AC)	\$324
FORBS/LEGUMES TOTAL			28	0.94	10.02	4.7						

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES												
	Common Name	Scientific Name Flowering Period	Lbs / acre PLS	Seeds / ft ² PLS	Coefficient of Conservatism	Estimated Cost (\$/lb)	# Seeds / ft ² @ 1 oz. / ac	Pure Stand PLS Rate lbs / ac	% of Mix	Estimated Cost (\$/ac)	Functional Group	Monarch Preferred
1	Leadplant	<i>Amorpha canescens</i>	0.015		8	\$225.00	6	6	0.0%	\$3	Sub-Shrub, Legume	X
	Input bloom period ->	Mid		0.094								
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 ² 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 ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	0.96	10.1	4.8	29	25.8		\$327

Illinois NRCS 420 Wildlife Habitat Planting Implementation Requirements Full Seeding			
Requirement	Criteria	Mix	Criteria Met
Requirements for sites on < 5% slope			
Grass Seeds/ft ² , Minimum	10.0	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.1	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	10.1	Does Not Meet Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	20.0	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.1	Meets Criteria
Total Seeds/ft ² , Minimum	30.0	10.1	Does Not Meet Criteria
Wildlife Special Purposes Escape and Nesting Cover Requirements			
Wildlife monoculture native grass (PLS/ft ²)	30.0	0.0	Does Not Meet Criteria

Illinois NRCS 420 Wildlife Habitat Planting Diverse Grass and Forb Stand (>15 desirable Species) Interseeding ½ Rate			
Requirement	Criteria	Mix	Criteria Met
Grass and Forb Interseeding on < 5% slope			
Grass Seeds/ft ² , Minimum	5.0	0.0	Does Not Meet Criteria
Forb & Shrub Seeds/ft ² , Minimum	2.5	10.1	Meets Criteria
Total Seeds/ft ² , minimum	10.0	10.1	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.1	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	10	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.1	Meets Criteria
Total Seeds/ft ² , Minimum	15	10.1	Does Not Meet Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.1	Meets Criteria