

Customize Options to Suit Site Conditions

▼ Pick an Ecoregion

Meric (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 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 ² @ 1 lb. / ac	Pure Stand PLS Rate lbs / ac	% of Mix	Estimated Cost (\$/ac)	Functional Group
		Equivalent rate below								
*Select Plants Click	Growth Form								\$0.00	
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	
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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 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 ↪

1	Common Name	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
	*Select Plants	*Select Bloom Period below Scientific Name	Equivalent rate below									
	Milkweed, Common	<i>Asclepias syriaca</i>	0.020	0.029	0	\$120	1.5	23.8	1.1%	\$2	Perennial Forb	X
	Input bloom period ->	Mid										
	Partridge Pea	<i>Chamaecrista fasciculata</i>	0.10	0.11	1	\$25	1.1	30.7	4.1%	\$3	Annual Forb, Legume	
	Input bloom period ->	Late										
	Coreopsis, Lanceleaf tickseed	<i>Coreopsis lanceolata</i>	0.030	0.22	5	\$1,280	7.3	4.8	7.9%	\$38	Perennial Forb	X
	Input bloom period ->	Mid										
	Prairie Clover, White	<i>Dalea candida</i>	0.010	0.070	9	\$90	7.0	5.0	2.5%	\$0.90	Perennial Forb, Legume	X
	Input bloom period ->	Mid										
	Prairie Clover, Purple	<i>Dalea purpurea</i>	0.010	0.062	8	\$45	6.2	5.6	2.2%	\$0.45	Perennial Forb, Legume	X
	Input bloom period ->	Mid										
	Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	0.050	0.070	4	\$45	1.4	25.1	2.5%	\$2	Perennial Forb, Legume	
	Input bloom period ->	Mid										
	Coneflower, Eastern Purple	<i>Echinacea purpurea</i>	0.050	0.12	6	\$45	2.4	14.4	4.4%	\$2	Perennial Forb	X
	Input bloom period ->	Mid										
	Blazing Star, Dense	<i>Liatris spicata</i>	0.010	0.040	7	\$150	4.0	8.7	1.5%	\$2	Perennial Forb	X
	Input bloom period ->	Mid										
	Bergamot, Wild	<i>Monarda fistulosa</i>	0.010	0.28	4	\$150	27.5	1.3	9.9%	\$2	Perennial Forb	X
	Input bloom period ->	Mid										
	Beardtongue, Foxglove	<i>Penstemon digitalis</i>	0.0050	0.24	4	\$150	47.8	0.7	8.6%	\$0.75	Perennial Forb	
	Input bloom period ->	Early										
	Mountainmint, Narrowleaf	<i>Pycnanthemum tenuifolium</i>	0.0010	0.14	4	\$450	138.8	0.3	5.0%	\$0.45	Perennial Forb	X
	Input bloom period ->	Late										
	Coneflower, Pinnate Prairie (Gray-head)	<i>Ratibida pinnata</i>	0.010	0.14	4	\$60	14.3	2.4	5.2%	\$0.60	Perennial Forb	
	Input bloom period ->	Late										
	Susan, Black-eyed	<i>Rudbeckia hirta</i>	0.030	1.03	2	\$45	34.4	1.0	37.2%	\$1	Biennial Forb	X
	Input bloom period ->	Mid										
	Aster, New England	<i>Symphyotrichum novae-angliae</i>	0.0010	0.024	4	\$300	24.2	1.4	0.9%	\$0.30	Perennial Forb	X
	Input bloom period ->	Late										
	Verbena, Hoary	<i>Verbena stricta</i>	0.0050	0.061	2	\$75	12.3	2.9	2.2%	\$0.38	Perennial Forb	X
	Input bloom period ->	Late										
	Zizia, Golden (Alexander's)	<i>Zizia aurea</i>	0.010	0.044	6	\$120	4.4	7.9	1.6%	\$1	Perennial Forb	
	Input bloom period ->	Early										
17										\$0.00		
	Input bloom period ->											
18										\$0.00		
	Input bloom period ->											
19										\$0.00		
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	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)	\$57			
FORBS/LEGUMES TOTAL		16	0.35	2.69	4.4							

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	0.094	8	\$225.00	6	6	0.0%	\$3	Sub-Shrub, Legume	X
	Input bloom period -> Mid								\$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 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	0.37	2.8	4.6	17	18.9		\$61

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	2.8	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	20.0	2.8	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	2.8	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	30.0	2.8	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 1/2 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	2.8	Meets Criteria
Total Seeds/ft ² , minimum	10.0	2.8	Does Not Meet Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	2.8	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	2.8	Meets Criteria
Total Seeds/ft ² , Minimum	15	2.8	Does Not Meet Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	2.8	Meets Criteria