

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)

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	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
*Select Plants Click	Growth Form									
1 Bluestem, Big	<i>Andropogon gerardii</i>	0.25		5	\$7	3.0	11.7	6.7%	\$2	Perennial Warm Season Grass
	Bunch		0.75							
2 Gramma, Sideoats	<i>Bouteloua curtipendula</i>	0.20		7	\$9	4.4	8.0	7.9%	\$2	Perennial Warm Season Grass
	Rhizomatous		0.87							
3 Lovegrass, Sand	<i>Eragrostis trichodes</i>	0.030		5	\$75	35.6	1.0	9.6%	\$2	Perennial Warm Season Grass
	Bunch		1.07							
4 Switchgrass	<i>Panicum virgatum</i>	0.10		4	\$8	9.2	4.0	8.3%	\$0.80	Perennial Warm Season Grass
	Rhizomatous		0.92							
5 Bluestem, Little	<i>Schizachyrium scoparium</i>	0.25		5	\$12	5.9	6.0	13.2%	\$3	Perennial Warm Season Grass
	Bunch		1.46							
6									\$0.00	
7									\$0.00	
8									\$0.00	
9									\$0.00	
10									\$0.00	
11									\$0.00	
12									\$0.00	
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14									\$0.00	
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22									\$0.00	
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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)	\$10
GRAMINOID TOTAL	5	0.83	5.07	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 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 Milkweed, Common <small>Input bloom period -></small>	<i>Asclepias syriaca</i> <small>Mid</small>	0.020	0.029	0	\$120	1.5	23.8	0.3%	\$2	Perennial Forb	X
2 Partridge Pea <small>Input bloom period -></small>	<i>Chamaecrista fasciculata</i> <small>Late</small>	0.15	0.17	1	\$25	1.1	30.7	1.5%	\$4	Annual Forb, Legume	
3 Coreopsis, Lanceleaf tickseed <small>Input bloom period -></small>	<i>Coreopsis lanceolata</i> <small>Mid</small>	0.10	0.73	5	\$1,280	7.3	4.8	6.6%	\$128	Perennial Forb	X
4 Prairie Clover, White <small>Input bloom period -></small>	<i>Dalea candida</i> <small>Mid</small>	0.010	0.070	9	\$90	7.0	5.0	0.6%	\$0.90	Perennial Forb, Legume	X
5 Prairie Clover, Purple <small>Input bloom period -></small>	<i>Dalea purpurea</i> <small>Mid</small>	0.030	0.19	8	\$45	6.2	5.6	1.7%	\$1	Perennial Forb, Legume	X
6 Bundleflower, Illinois <small>Input bloom period -></small>	<i>Desmanthus illinoensis</i> <small>Mid</small>	0.10	0.14	4	\$45	1.4	25.1	1.3%	\$5	Perennial Forb, Legume	
7 Coneflower, Eastern Purple <small>Input bloom period -></small>	<i>Echinacea purpurea</i> <small>Mid</small>	0.10	0.24	6	\$45	2.4	14.4	2.2%	\$5	Perennial Forb	X
8 Blazing Star, Dense <small>Input bloom period -></small>	<i>Liatris spicata</i> <small>Mid</small>	0.010	0.040	7	\$150	4.0	8.7	0.4%	\$2	Perennial Forb	X
9 Bergamot, Wild <small>Input bloom period -></small>	<i>Monarda fistulosa</i> <small>Mid</small>	0.030	0.83	4	\$150	27.5	1.3	7.4%	\$5	Perennial Forb	X
10 Beardtongue, Foxglove <small>Input bloom period -></small>	<i>Penstemon digitalis</i> <small>Early</small>	0.0050	0.24	4	\$150	47.8	0.7	2.1%	\$0.75	Perennial Forb	
11 Mountainmint, Narrowleaf <small>Input bloom period -></small>	<i>Pycnanthemum tenuifolium</i> <small>Late</small>	0.0050	0.69	4	\$450	138.8	0.3	6.3%	\$2	Perennial Forb	X
12 Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -></small>	<i>Ratibida pinnata</i> <small>Late</small>	0.010	0.14	4	\$60	14.3	2.4	1.3%	\$0.60	Perennial Forb	
13 Susan, Black-eyed <small>Input bloom period -></small>	<i>Rudbeckia hirta</i> <small>Mid</small>	0.063	2.17	2	\$45	34.4	1.0	19.5%	\$3	Biennial Forb	X
14 Aster, New England <small>Input bloom period -></small>	<i>Symphyotrichum novae-angliae</i> <small>Late</small>	0.0020	0.048	4	\$300	24.2	1.4	0.4%	\$0.60	Perennial Forb	X
15 Verbena, Hoary <small>Input bloom period -></small>	<i>Verbena stricta</i> <small>Late</small>	0.010	0.12	2	\$75	12.3	2.9	1.1%	\$0.75	Perennial Forb	X
16 Zizia, Golden (Alexander's) <small>Input bloom period -></small>	<i>Zizia aurea</i> <small>Early</small>	0.020	0.088	6	\$120	4.4	7.9	0.8%	\$2	Perennial Forb	
17									\$0.00		
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40												\$0.00		
	Input bloom period ->													
		Species Richness	lbs / acre PLS	seeds / ft ² PLS	Average CC	ESTIMATED FORB COST (\$/AC)		COST (\$/AC)			\$162			
FORBS/LEGUMES TOTAL		16	0.67	5.95	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		
												Equivalent rate below	
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	1.51	11.1	4.7	22	22.2		\$175

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	5.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	6.0	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	11.1	Does Not Meet Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	20.0	5.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	6.0	Meets Criteria
Total Seeds/ft ² , Minimum	30.0	11.1	Does Not Meet Criteria
Wildlife Special Purposes Escape and Nesting Cover Requirements			
Wildlife monoculture native grass (PLS/ft ²)	30.0	5.1	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	5.1	Meets Criteria
Forb & Shrub Seeds/ft ² , Minimum	2.5	6.0	Meets Criteria
Total Seeds/ft ² , minimum	10.0	11.1	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	6.0	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	10	5.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	6.0	Meets Criteria
Total Seeds/ft ² , Minimum	15	11.1	Does Not Meet Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	6.0	Meets Criteria