

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)

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	Growth Form	Equivalent rate below								
1 Bluejoint	<i>Calamagrostis canadensis</i>	0.010		3	\$375	86.1	0.4	4.2%	\$4	Perennial Cool Season Grass
	Rhizomatous		0.86							
2 Sedge, Broom	<i>Carex scoparia</i>	0.020		5	\$180	30.9	1.1	3.0%	\$4	Perennial Cool Season Sedge
	Bunch		0.62							
3 Sedge, Fox	<i>Carex vulpinoidea</i>	0.070		3	\$100	29.8	1.2	10.2%	\$7	Perennial Cool Season Sedge
	Bunch		2.08							
4 Wildrye, Virginia	<i>Elymus virginicus</i>	0.55		4	\$15	1.7	20.3	4.7%	\$8	Perennial Cool Season Grass
	Bunch		0.95							
5 Rush, Common	<i>Juncus effusus</i>	0.0060		4	\$150	367.3	0.10	10.8%	\$0.90	Perennial Cool Season Rush
	Bunch		2.20							
6 Bluegrass, Fowl	<i>Poa palustris</i>	0.040		7	\$16	47.8	0.7	9.4%	\$0.64	Perennial Cool Season Grass
	Bunch		1.91							
7 Bulrush, Green	<i>Scirpus atrovirens</i>	0.010		4	\$45	169.0	0.2	8.3%	\$0.45	Perennial Cool Season Sedge
	Bunch		1.69							
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)	\$25
GRAMINOID TOTAL	7	0.71	10.31	4.3			

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, Swamp <small>Input bloom period -> Mid</small>	<i>Asclepias incarnata</i>	0.020	0.032	4	\$180	1.6	22.2	0.2%	\$4	Perennial Forb	X
2	Doll's Daisy, White <small>Input bloom period -> Mid</small>	<i>Boltonia asteroides</i>	0.0050	0.29	5	\$166	58.8	0.6	1.4%	\$0.83	Perennial Forb	X
3	Aster, Flat-Topped <small>Input bloom period -> Late</small>	<i>Doellingeria umbellata</i>	0.010	0.25	*	\$450	24.6	1.4	1.2%	\$5	Perennial Forb	X
4	Boneset, Common <small>Input bloom period -> Mid</small>	<i>Eupatorium perfoliatum</i>	0.0030	0.18	4	\$300	58.8	0.6	0.9%	\$0.90	Perennial Forb	X
5	Joe Pye Weed, Spotted <small>Input bloom period -> Mid</small>	<i>Eutrochium maculatum</i>	0.0040	0.14	5	\$300	34.9	1.0	0.7%	\$1	Perennial Forb	X
6	Sneezeweed, Common <small>Input bloom period -> Late</small>	<i>Helenium autumnale</i>	0.0050	0.26	3	\$150	51.4	0.7	1.3%	\$0.75	Perennial Forb	
7	Blazing Star, Dense <small>Input bloom period -> Mid</small>	<i>Liatris spicata</i>	0.040	0.16	7	\$150	4.0	8.7	0.8%	\$6	Perennial Forb	X
8	Cardinal Flower <small>Input bloom period -> Late</small>	<i>Lobelia cardinalis</i>	0.0010	0.15	6	\$1,200	146.9	0.2	0.7%	\$1	Perennial Forb	X
9	Lobelia, Great Blue <small>Input bloom period -> Mid</small>	<i>Lobelia siphilitica</i>	0.0070	1.29	4	\$600	183.7	0.2	6.3%	\$4	Perennial Forb	X
10	Seedbox <small>Input bloom period -> Mid</small>	<i>Ludwigia alternifolia</i>	0.0030	1.43	5	\$480	477.5	0.07	7.0%	\$1	Perennial Forb	
11	Monkeyflower, Allegheny <small>Input bloom period -> Late</small>	<i>Mimulus ringens</i>	0.0020	1.69	5	\$300	844.8	0.04	8.3%	\$0.60	Perennial Forb	
12	Goldenrod, Flat-top Goldentop (Grass-l) <small>Input bloom period -> Late</small>	<i>Euthamia graminifolia</i>	0.0025	0.32	3	\$1,500	128.6	0.3	1.6%	\$4	Perennial Forb	X
13	Mountainmint, Narrowleaf <small>Input bloom period -> Mid</small>	<i>Pycnanthemum tenuifolium</i>	0.0050	0.69	4	\$450	138.8	0.3	3.4%	\$2	Perennial Forb	X
14	Mountainmint, Virginia (Common) <small>Input bloom period -> Mid</small>	<i>Pycnanthemum virginianum</i>	0.0040	0.32	5	\$450	80.8	0.4	1.6%	\$2	Perennial Forb	X
15	Coneflower, Sweet <small>Input bloom period -> Mid</small>	<i>Rudbeckia subtomentosa</i>	0.020	0.32	5	\$150	15.8	2.2	1.6%	\$3	Perennial Forb	X
16	Susan, Browneyed <small>Input bloom period -> Late</small>	<i>Rudbeckia triloba</i>	0.020	0.26	3	\$90	12.9	2.7	1.3%	\$2	Biennial Forb	X
17	Aster, New England <small>Input bloom period -> Late</small>	<i>Symphotrichum novae-angliae</i>	0.010	0.24	4	\$300	24.2	1.4	1.2%	\$3	Perennial Forb	X
18	Aster, Purplestem <small>Input bloom period -> Late</small>	<i>Symphotrichum puniceum</i>	0.0050	0.15	7	\$450	29.4	1.2	0.7%	\$2	Perennial Forb	X
19	Meadow-Rue, Purple <small>Input bloom period -> Early</small>	<i>Thalictrum dasycarpum</i>	0.010	0.040	5	\$300	4.0	8.7	0.2%	\$3	Perennial Forb	
20	Verbena, Swamp (Blue) <small>Input bloom period -> Late</small>	<i>Verbena hastata</i>	0.050	1.71	3	\$640	34.2	1.0	8.4%	\$32	Perennial Forb	X
21	Ironweed, Prairie <small>Input bloom period -> Late</small>	<i>Vernonia fasciculata</i>	0.015	0.14	5	\$225	8.8	4.0	0.7%	\$3	Perennial Forb	X
22	<small>Input bloom period -></small>									\$0.00		

23											\$0.00		
	Input bloom period ->												
24											\$0.00		
	Input bloom period ->												
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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)	\$82			
FORBS/LEGUMES TOTAL		21	0.24	10.05	4.6								

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES												
Common Name	Scientific Name	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	
	Flowering Period	Equivalent rate below										
1									\$0.00			
	Input bloom period ->											
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)	\$0		
VINE & WOODY PLANT TOTAL		0	0.00	0.00	0.0							

	lbs / acre PLS	seeds / ft ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	0.95	20.4	4.5	28	23.9		\$106

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	10.3	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.0	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	20.4	Meets Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	20.0	10.3	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.0	Meets Criteria
Total Seeds/ft ² , Minimum	30.0	20.4	Does Not Meet Criteria
Wildlife Special Purposes Escape and Nesting Cover Requirements			
Wildlife monoculture native grass (PLS/ft ²)	30.0	10.3	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	10.3	Meets Criteria
Forb & Shrub Seeds/ft ² , Minimum	2.5	10.0	Meets Criteria
Total Seeds/ft ² , minimum	10.0	20.4	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.0	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	10	10.3	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.0	Meets Criteria
Total Seeds/ft ² , Minimum	15	20.4	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.0	Meets Criteria