

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	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 Rush, Common	<i>Juncus effusus</i>	0.0050		4	\$150	367.3	0.10	8.6%	\$0.75	Perennial Cool Season Rush
	Bunch		1.84							
2 Bluegrass, Fowl	<i>Poa palustris</i>	0.020		7	\$16	47.8	0.7	4.5%	\$0.32	Perennial Cool Season Grass
	Bunch		0.96							
3 Bulrush, Green	<i>Scirpus atrovirens</i>	0.0060		4	\$45	169.0	0.2	4.7%	\$0.27	Perennial Cool Season Sedge
	Bunch		1.01							
4 Sedge, Fox	<i>Carex vulpinoidea</i>	0.040		3	\$100	29.8	1.2	5.6%	\$4	Perennial Cool Season Sedge
	Bunch		1.19							
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)	\$5
GRAMINOID TOTAL		4	0.07	5.00	4.5					

CHOOSE YOUR FORBS/LEGUMES											
↩ Input quantity ↪											
Common Name *Select Plants Click ↪	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	Monkeyflower, Allegheny Input bloom period -> Late	0.0020	1.69	5	\$300	844.8	0.04	7.9%	\$0.60	Perennial Forb	
2	Seedbox Input bloom period -> Mid	0.0030	1.43	5	\$480	477.5	0.07	6.7%	\$1	Perennial Forb	
3	Verbena, Swamp (Blue) Input bloom period -> Mid	0.050	1.71	3	\$640	34.2	1.0	8.0%	\$32	Perennial Forb	X
4	Mountainmint, Narrowleaf Input bloom period -> Late	0.010	1.39	4	\$450	138.8	0.3	6.5%	\$5	Perennial Forb	X
5	Lobelia, Great Blue Input bloom period -> Mid	0.010	1.84	4	\$600	183.7	0.2	8.6%	\$6	Perennial Forb	X
6	Sneezeweed, Common Input bloom period -> Late	0.020	1.03	3	\$150	51.4	0.7	4.8%	\$3	Perennial Forb	
7	Susan, Browneyed Input bloom period -> Mid	0.10	1.29	3	\$90	12.9	2.7	6.0%	\$9	Biennial Forb	X
8	Doll's Daisy, White Input bloom period -> Late	0.020	1.18	5	\$166	58.8	0.6	5.5%	\$3	Perennial Forb	X
9	Milkweed, Swamp Input bloom period -> Mid	0.020	0.032	4	\$180	1.6	22.2	0.1%	\$4	Perennial Forb	X
10	Boneset, Common Input bloom period -> Late	0.020	1.18	4	\$300	58.8	0.6	5.5%	\$6	Perennial Forb	X
11	Mountainmint, Virginia (Common) Input bloom period -> Mid	0.010	0.81	5	\$450	80.8	0.4	3.8%	\$5	Perennial Forb	X
12	Cardinal Flower Input bloom period -> Late	0.0050	0.73	6	\$1,200	146.9	0.2	3.4%	\$6	Perennial Forb	X
13	Coneflower, Sweet Input bloom period -> Mid	0.010	0.16	5	\$150	15.8	2.2	0.7%	\$2	Perennial Forb	X
14	Beggarstick, Bearded Input bloom period -> Late	0.050	0.16	1	\$75	3.2	11.1	0.7%	\$4	Annual Forb	X
15	Aster, Flat-topped Input bloom period ->	0.0080	0.20	*	\$450	24.6	1.4	0.9%	\$4	Perennial Forb	X
16	Joe Pye Weed, Spotted Input bloom period -> Mid	0.0050	0.17	5	\$300	34.9	1.0	0.8%	\$2	Perennial Forb	X
17	Aster, New England Input bloom period -> Late	0.010	0.24	4	\$300	24.2	1.4	1.1%	\$3	Perennial Forb	X
18	Goldenrod, Riddell's Input bloom period -> Mid	0.0050	0.17	7	\$150	34.2	1.0	0.8%	\$0.75	Perennial Forb	X
19	Ironweed, Prairie Input bloom period -> Late	0.010	0.088	5	\$225	8.8	4.0	0.4%	\$2	Perennial Forb	X
20	Blazing Star, Dense Input bloom period -> Mid	0.010	0.040	7	\$150	4.0	8.7	0.2%	\$2	Perennial Forb	X
21	Onion, Nodding Input bloom period -> Early	0.070	0.31	7	\$1,600	4.4	7.9	1.4%	\$112	Perennial Forb	
22	Meadow-Rue, Purple Input bloom period -> Early	0.075	0.30	5	\$300	4.0	8.7	1.4%	\$23	Perennial Forb	

23	Angelica, Purplestem	<i>Angelica atropurpurea</i>	0.15	0.30	6	\$60	2.0	17.6	1.4%	\$9	Perennial Forb	
	Input bloom period ->	Early										
24										\$0.00		
	Input bloom period ->											
25										\$0.00		
	Input bloom period ->											
26										\$0.00		
	Input bloom period ->											
27										\$0.00		
	Input bloom period ->											
28										\$0.00		
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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 / ft² PLS	Average CC				ESTIMATED FORB COST (\$/AC)	COST (\$/AC)	\$241	
FORBS/LEGUMES TOTAL		23	0.68	16.44	4.7							

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 / ft² 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	0.75	21.4	4.7	27	24.2		\$247

Illinois NRCS 420 Wildlife Habitat Planting: Pollinator and Monarch Full Seeding Requirements			
Requirement	Criteria	Mix	Criteria Met
All mixes			
Spring Blooming Forbs & Shrubs, Minimum	3	3	Meets Criteria
Summer Blooming Forbs & Shrubs, Minimum	3	5	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	6	Meets Criteria
Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass)	Absent	Absent	Meets Criteria
Requirements for sites on < 5% slope			
Grass Seeds/ft ² , Maximum	5	5.0	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15	16.4	Meets Criteria
Total Seeds/ft ² , Minimum	20	21.4	Meets Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	10	5.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	30	16.4	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	40	21.4	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.1%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Minimum	60.0%	69.2%	Meets Criteria

Illinois NRCS 420 Wildlife Habitat Planting: Pollinator and Monarch Interseeding 1/2 Rate			
Requirement	Criteria	Mix	Criteria Met
All mixes			
Spring Blooming Forbs & Shrubs, Minimum	3	3.0	Meets Criteria
Summer Blooming Forbs & Shrubs, Minimum	3	8.0	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	8.0	Meets Criteria
Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass)	Absent	Absent	Meets Criteria
Grass and Forb Interseeding on < 5% slope			
Grass Seeds/ft ² , Maximum	2.5	5.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	16.4	Meets Criteria
Total Seeds/ft ² , Minimum	10.0	21.4	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	5	5.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	16.4	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	21.4	Meets Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.1%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Min	60.0%	69.2%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	16.4	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	16.4	Meets Criteria