

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	
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	

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 <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>	0.031	0.046	0	\$120	1.5	23.8	0.6%	\$4	Perennial Forb	X
2 Partridge Pea <small>Input bloom period -></small>	<i>Chamaecrista fasciculata</i> <small>Late</small>	0.26	0.30	1	\$25	1.1	30.7	3.9%	\$7	Annual Forb, Legume	
3 Coreopsis, Lanceleaf tickseed <small>Input bloom period -></small>	<i>Coreopsis lanceolata</i> <small>Late</small>	0.050	0.37	5	\$1,280	7.3	4.8	4.8%	\$64	Perennial Forb	X
4 Prairie Clover, Purple <small>Input bloom period -></small>	<i>Dalea purpurea</i> <small>Mid</small>	0.050	0.31	8	\$45	6.2	5.6	4.1%	\$2	Perennial Forb, Legume	X
5 Coneflower, Eastern Purple <small>Input bloom period -></small>	<i>Echinacea purpurea</i> <small>Mid</small>	0.15	0.36	6	\$45	2.4	14.4	4.8%	\$7	Perennial Forb	X
6 Oxeye, Smooth (False Sunflower) <small>Input bloom period -></small>	<i>Heliopsis helianthoides</i>	0.10	0.24	4	\$60	2.4	14.7	3.1%	\$6	Perennial Forb	X
7 Alumroot <small>Input bloom period -></small>	<i>Heuchera richardsonii</i> <small>Early</small>	0.0020	0.51	8	\$900	252.5	0.1	6.6%	\$2	Perennial Forb	
8 Bergamot, Wild <small>Input bloom period -></small>	<i>Monarda fistulosa</i> <small>Mid</small>	0.020	0.55	4	\$150	27.5	1.3	7.2%	\$3	Perennial Forb	X
9 Beardtongue, Foxglove <small>Input bloom period -></small>	<i>Penstemon digitalis</i> <small>Early</small>	0.010	0.48	4	\$150	47.8	0.7	6.3%	\$2	Perennial Forb	
10 Mountainmint, Narrowleaf <small>Input bloom period -></small>	<i>Pycnanthemum tenuifolium</i> <small>Late</small>	0.0040	0.56	4	\$450	138.8	0.3	7.3%	\$2	Perennial Forb	X
11 Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -></small>	<i>Ratibida pinnata</i> <small>Mid</small>	0.030	0.43	4	\$60	14.3	2.4	5.6%	\$2	Perennial Forb	
12 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	28.4%	\$3	Biennial Forb	X
13 Goldenrod, Gray (Field) <small>Input bloom period -></small>	<i>Solidago nemoralis</i> <small>Late</small>	0.0030	0.33	3	\$600	110.2	0.3	4.3%	\$2	Perennial Forb	X
14 Aster, Smooth Blue <small>Input bloom period -></small>	<i>Symphyotrichum laeve</i> <small>Late</small>	0.0020	0.037	8	\$300	18.4	1.9	0.5%	\$0.60	Perennial Forb	X
15 Aster, Calico <small>Input bloom period -></small>	<i>Symphyotrichum lateriflorum</i> <small>Late</small>	0.0030	0.28	2	\$600	91.8	0.4	3.6%	\$2	Perennial Forb	X
16 Verbena, Hoary <small>Input bloom period -></small>	<i>Verbena stricta</i> <small>Mid</small>	0.030	0.37	2	\$75	12.3	2.9	4.8%	\$2	Perennial Forb	X
17 Zizia, Golden (Alexander's) <small>Input bloom period -></small>	<i>Zizia aurea</i> <small>Early</small>	0.070	0.31	6	\$120	4.4	7.9	4.0%	\$8	Perennial Forb	
18									\$0.00		
19									\$0.00		
20									\$0.00		
21									\$0.00		
22									\$0.00		
23									\$0.00		

	lbs / acre PLS	seeds / ft ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	0.88	7.6	4.2	17	17.2		\$117

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	6	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	3	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	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15	7.6	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	20	7.6	Does Not Meet Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	10	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	30	7.6	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	40	7.6	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.6%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Minimum	60.0%	73.6%	Meets Criteria

Illinois NRCS 420 Wildlife Habitat Planting: Pollinator and Monarch Interseeding ½ Rate			
Requirement	Criteria	Mix	Criteria Met
All mixes			
Spring Blooming Forbs & Shrubs, Minimum	3	3.0	Meets Criteria
Summer Blooming Forbs & Shrubs, Minimum	3	6.0	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	5.0	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	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	7.6	Meets Criteria
Total Seeds/ft ² , Minimum	10.0	7.6	Does Not Meet Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	5	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	7.6	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	20.0	7.6	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.6%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Min	60.0%	73.6%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	7.6	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	7.6	Does Not Meet Criteria