

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)



**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 5/26/2020

CHOOSE YOUR GRASSES

← Input quantity →

Common Name <i>*Select Plants</i>	Scientific Name <i>Growth Form</i>	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								
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	

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)	COST (\$/AC)	\$0
GRAMINOID TOTAL		0	0.00	0.00	0.0						

CHOOSE YOUR FORBS/LEGUMES											
↔ Input quantity ↔											
Common Name *Select Plants	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	zizia, golden (alexander's) Input bloom period -> Early	0.070	0.31	6	\$120	4.4	7.9	2.1%	\$8	Perennial Forb	
2	Aster, Heath Input bloom period -> Late	0.0020	0.15	3	\$1,600	73.5	0.5	1.0%	\$3	Perennial Forb	X
3	aster, new england Input bloom period -> Late	0.0050	0.12	4	\$300	24.2	1.4	0.8%	\$2	Perennial Forb	X
4	aster, smooth blue Input bloom period -> Late	0.0020	0.037	8	\$300	18.4	1.9	0.2%	\$0.60	Perennial Forb	X
5	beardtongue, foxglove Input bloom period -> Early	0.015	0.72	4	\$150	47.8	0.7	4.8%	\$2	Perennial Forb	
6	bergamot, wild Input bloom period -> Mid	0.040	1.10	4	\$150	27.5	1.3	7.3%	\$6	Perennial Forb	X
7	cinquefoil, tall Input bloom period -> Late	0.0070	0.59	10	\$120	84.5	0.4	3.9%	\$0.84	Perennial Forb	
8	coneflower, pinnate prairie (gray-headed) Input bloom period -> Mid	0.050	0.72	4	\$60	14.3	2.4	4.8%	\$3	Perennial Forb	
9	coneflower, eastern purple Input bloom period -> Mid	0.25	0.61	6	\$45	2.4	14.4	4.0%	\$11	Perennial Forb	X
10	coreopsis, lanceleaf tickseed Input bloom period -> Mid	0.15	1.10	5	\$1,280	7.3	4.8	7.3%	\$192	Perennial Forb	X
11	culver's root Input bloom period -> Mid	0.0040	1.10	6	\$1,200	275.5	0.1	7.3%	\$5	Perennial Forb	X
12	goldenrod, gray (field) Input bloom period -> Late	0.0050	0.55	3	\$600	110.2	0.3	3.7%	\$3	Perennial Forb	X
13	goldenrod, stiff Input bloom period -> Late	0.020	0.30	4	\$225	15.1	2.3	2.0%	\$5	Perennial Forb	X
14	Bundleflower, Illinois Input bloom period -> Mid	0.26	0.36	4	\$45	1.4	25.1	2.4%	\$12	Perennial Forb	
15	wild indigo, white Input bloom period -> Mid	0.010	0.0062	6	\$300	0.6	56.1	0.0%	\$3	Perennial Forb, Legume	
16	lupine, sundial (wild) Input bloom period -> Early	0.60	0.31	8	\$800	0.5	68.1	2.1%	\$480	Perennial Forb, Legume	
17	milkvetch, canadian Input bloom period -> Mid	0.010	0.057	7	\$120	5.7	6.1	0.4%	\$1	Perennial Forb, Legume	
18	milkweed, butterfly Input bloom period -> Mid	0.020	0.032	5	\$300	1.6	22.2	0.2%	\$6	Perennial Forb	X
19	milkweed, common Input bloom period -> Mid	0.031	0.046	0	\$120	1.5	23.8	0.3%	\$4	Perennial Forb	X
20	beebalm, spotted (horsemint) Input bloom period -> Mid	0.020	0.66	5	\$225	33.1	1.1	4.4%	\$5	Biennial Forb	X
21	mountainmint, virginia (common) Input bloom period -> Late	0.0010	0.081	5	\$450	80.8	0.4	0.5%	\$0.45	Perennial Forb	X
22	mountainmint, narrowleaf Input bloom period -> Late	0.0070	0.97	4	\$450	138.8	0.3	6.5%	\$3	Perennial Forb	X

23	partridge pea	<i>Chamaecrista fasciculata</i>	0.26		1	\$25	1.1	30.7	2.0%	\$7	Annual Forb, Legume		
	Input bloom period ->	Late		0.30									
24	prairie clover, purple	<i>Dalea purpurea</i>	0.20		8	\$45	6.2	5.6	8.3%	\$9	Perennial Forb, Legume	X	
	Input bloom period ->	Mid		1.25									
25	prairie clover, white	<i>Dalea candida</i>	0.050		9	\$90	7.0	5.0	2.3%	\$5	Perennial Forb, Legume	X	
	Input bloom period ->	Mid		0.35									
26	Spiderwort, Bluejacket (Ohio)	<i>Tradescantia ohiensis</i>	0.0010		3	\$300	2.9	11.9	0.0%	\$0.30	Perennial Forb		
	Input bloom period ->	Early		0.0029									
27	susan, black-eyed	<i>Rudbeckia hirta</i>	0.063		2	\$45	34.4	1.0	14.4%	\$3	Biennial Forb	X	
	Input bloom period ->	Late		2.17									
28	susan, browneyed	<i>Rudbeckia triloba</i>	0.050		3	\$90	12.9	2.7	4.3%	\$5	Biennial Forb	X	
	Input bloom period ->	Late		0.64									
29	verbena, hoary	<i>Verbena stricta</i>	0.030		2	\$75	12.3	2.9	2.4%	\$2	Perennial Forb	X	
	Input bloom period ->	Mid		0.37									
30	Blazing Star, Dense	<i>Liatris spicata</i>	0.010		7	\$150	4.0	8.7	0.3%	\$2	Perennial Forb	X	
	Input bloom period ->	Mid		0.040									
31										\$0.00			
	Input bloom period ->												
32										\$0.00			
	Input bloom period ->												
33										\$0.00			
	Input bloom period ->												
34										\$0.00			
	Input bloom period ->												
35										\$0.00			
	Input bloom period ->												
36										\$0.00			
	Input bloom period ->												
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 / ft ² PLS	Average CC	ESTIMATED FORB COST (\$/AC)			COST (\$/AC)	\$786		
FORBS/LEGUMES TOTAL			30	2.24	15.04	4.9							

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES													
Common Name	Scientific Name <small>Flowering Period</small>	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									\$0.00				
	Input bloom period ->	Mid											
2									\$0.00				
	Input bloom period ->	Mid											
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	2.24	15.0	4.9	30	26.7		\$786

Illinois NRCS 327 Conservation Cover: 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	10	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	0.0	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15	15.0	Meets Criteria
Total Seeds/ft ² , Minimum	20	15.0	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	15.0	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	40	15.0	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.5%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Minimum	60.0%	77.6%	Meets Criteria

Illinois NRCS 327 Conservation Cover: 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	10.0	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	7.0	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	15.0	Meets Criteria
Total Seeds/ft ² , Minimum	10.0	15.0	Meets 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	15.0	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	15.0	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.5%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Min	60.0%	77.6%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	15.0	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	15.0	Meets Criteria