

Customize Options to Suit Site Conditions

Interior Plateau

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 Bluestem, Little	<i>Schizachyrium scoparium</i> Bunch	0.30	1.76	5	\$12	5.9	6.0	8.7%	\$4	Perennial Warm Season Grass
2 Grama, Sideoats	<i>Bouteloua curtipendula</i> Rhizomatous	0.070	0.31	7	\$9	4.4	8.0	1.5%	\$0.63	Perennial Warm Season Grass
3 Dropseed, Composite	<i>Sporobolus compositus</i> Bunch	0.10	1.10	3	\$17	11.0	3.2	5.4%	\$2	Perennial Warm Season Grass
4 Lovegrass, Sand	<i>Eragrostis trichodes</i> Bunch	0.015	0.53	5	\$75	35.6	1.0	2.6%	\$1	Perennial Warm Season Grass
5 Junegrass, Prairie	<i>Koeleria macrantha</i> Bunch	0.040	1.35	7	\$75	33.6	1.0	6.6%	\$3	Perennial Cool Season Grass
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)	\$10
GRAMINOID TOTAL		5	0.53	5.04	5.4						

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	1.5%	\$8	Perennial Forb	
2	Doll's Daisy, White Input bloom period -> Late	0.010	0.59	5	\$166	58.8	0.6	2.9%	\$2	Perennial Forb	X
3	Aster, Heath Input bloom period -> Late	0.0020	0.15	3	\$1,600	73.5	0.5	0.7%	\$3	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	3.5%	\$2	Perennial Forb	
6	beardtongue, hairy Input bloom period -> Early	0.0030	0.36	8	\$416	121.3	0.3	1.8%	\$1	Perennial Forb	
7	bergamot, wild Input bloom period -> Mid	0.040	1.10	4	\$150	27.5	1.3	5.4%	\$6	Perennial Forb	X
8	Blazing Star, Dense Input bloom period -> Mid	0.010	0.040	7	\$150	4.0	8.7	0.2%	\$2	Perennial Forb	X
9	coneflower, pinnate prairie (gray-headed) Input bloom period -> Mid	0.050	0.72	4	\$60	14.3	2.4	3.5%	\$3	Perennial Forb	
10	coneflower, eastern purple Input bloom period -> Mid	0.25	0.61	6	\$45	2.4	14.4	3.0%	\$11	Perennial Forb	X
11	culver's root Input bloom period -> Mid	0.0040	1.10	6	\$1,200	275.5	0.1	5.4%	\$5	Perennial Forb	X
12	goldenrod, gray (field) Input bloom period -> Late	0.010	1.10	3	\$600	110.2	0.3	5.4%	\$6	Perennial Forb	X
13	goldenrod, stiff Input bloom period -> Late	0.020	0.30	4	\$225	15.1	2.3	1.5%	\$5	Perennial Forb	X
14	Bundleflower, Illinois Input bloom period -> Mid	0.26	0.36	4	\$45	1.4	25.1	1.8%	\$12	Perennial Forb	
15	milkvetch, canadian Input bloom period ->	0.010	0.057	7	\$120	5.7	6.1	0.3%	\$1	Perennial Forb, Legume	
16	milkweed, butterfly Input bloom period ->	0.10	0.16	5	\$300	1.6	22.2	0.8%	\$30	Perennial Forb	X
17	milkweed, common Input bloom period ->	0.10	0.15	0	\$120	1.5	23.8	0.7%	\$12	Perennial Forb	X
18	mountainmint, narrowleaf Input bloom period ->	0.010	1.39	4	\$450	138.8	0.3	6.9%	\$5	Perennial Forb	X
19	mistflower, blue Input bloom period ->	0.0050	0.64	3	\$960	128.6	0.3	3.2%	\$5	Perennial Forb	X
20	partridge pea Input bloom period ->	0.26	0.30	1	\$25	1.1	30.7	1.5%	\$7	Annual Forb, Legume	
21	prairie clover, purple Input bloom period ->	0.20	1.25	8	\$45	6.2	5.6	6.2%	\$9	Perennial Forb, Legume	X
22	prairie clover, white Input bloom period ->	0.050	0.35	9	\$90	7.0	5.0	1.7%	\$5	Perennial Forb, Legume	X

23	Spiderwort, Bluejacket (Ohio)	<i>Tradescantia ohiensis</i>	0.0010		3	\$300	2.9	11.9	0.0%	\$0.30	Perennial Forb	
	Input bloom period ->		0.0029									
24	Oxeye, Smooth (False Sunflower)	<i>Heliopsis helianthoides</i>	0.10		4	\$60	2.4	14.7	1.2%	\$6	Perennial Forb	X
	Input bloom period ->		0.24									
25	susan, black-eyed	<i>Rudbeckia hirta</i>	0.063		2	\$45	34.4	1.0	10.7%	\$3	Biennial Forb	X
	Input bloom period ->		2.17									
26	susan, browneyed	<i>Rudbeckia triloba</i>	0.050		3	\$90	12.9	2.7	3.2%	\$5	Biennial Forb	X
	Input bloom period ->		0.64									
27	verbena, hoary	<i>Verbena stricta</i>	0.030		2	\$75	12.3	2.9	1.8%	\$2	Perennial Forb	X
	Input bloom period ->		0.37									
28										\$0.00		
	Input bloom period ->											
29										\$0.00		
	Input bloom period ->											
30										\$0.00		
	Input bloom period ->											
31										\$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 / ft ² PLS	Average CC	ESTIMATED FORB COST (\$/AC)			COST (\$/AC)	\$154		
FORBS/LEGUMES TOTAL		27	1.73	15.20	4.6							

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 ->											
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	2.25	20.2	4.7	32	26.5		\$165

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	5	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	5.0	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15	15.2	Meets Criteria
Total Seeds/ft ² , Minimum	20	20.2	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	15.2	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	40	20.2	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	1.5%	Meets Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Minimum	60.0%	81.4%	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	5.0	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	3.0	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	15.2	Meets Criteria
Total Seeds/ft ² , Minimum	10.0	20.2	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	15.2	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	20.2	Meets Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	1.5%	Meets Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Min	60.0%	81.4%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	15.2	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	15.2	Meets Criteria