

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 Bluestem, Little	<i>Schizachyrium scoparium</i>	0.35		5	\$12	5.9	6.0	10.1%	\$4	Perennial Warm Season Grass
	Bunch		2.05							
2 Dropseed, Composite	<i>Sporobolus compositus</i>	0.10		3	\$17	11.0	3.2	5.5%	\$2	Perennial Warm Season Grass
	Bunch		1.10							
3 Grama, Sideoats	<i>Bouteloua curtipendula</i>	0.25		7	\$9	4.4	8.0	5.4%	\$2	Perennial Warm Season Grass
	Rhizomatous		1.09							
4 Junegrass, Prairie	<i>Koeleria macrantha</i>	0.025		7	\$75	33.6	1.0	4.2%	\$2	Perennial Cool Season Grass
	Bunch		0.84							
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)	\$10
GRAMINOID TOTAL		4	0.73	5.08	5.5						

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	Zizia, Golden (Alexander's) <small>Input bloom period -> Early</small>	0.070	0.31	6	\$120	4.4	7.9	1.5%	\$8	Perennial Forb	
2	Aster, Heath <small>Input bloom period -> Late</small>	0.0020	0.15	3	\$1,600	73.5	0.5	0.7%	\$3	Perennial Forb	X
3	Aster, New England <small>Input bloom period -> Late</small>	0.0050	0.12	4	\$300	24.2	1.4	0.6%	\$2	Perennial Forb	X
4	Aster, Smooth Blue <small>Input bloom period -> Late</small>	0.010	0.18	8	\$300	18.4	1.9	0.9%	\$3	Perennial Forb	X
5	Beardtongue, Foxglove <small>Input bloom period -> Early</small>	0.020	0.96	4	\$150	47.8	0.7	4.7%	\$3	Perennial Forb	
6	Bergamot, Wild <small>Input bloom period -> Mid</small>	0.060	1.65	4	\$150	27.5	1.3	8.2%	\$9	Perennial Forb	X
7	Blazing Star, Dense <small>Input bloom period -> Mid</small>	0.040	0.16	7	\$150	4.0	8.7	0.8%	\$6	Perennial Forb	X
8	<small>Input bloom period -></small>								\$0.00		
9	Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -> Mid</small>	0.080	1.15	4	\$60	14.3	2.4	5.7%	\$5	Perennial Forb	
10	Coneflower, Eastern Purple <small>Input bloom period -> Mid</small>	0.36	0.87	6	\$45	2.4	14.4	4.3%	\$16	Perennial Forb	X
11	Culver's Root <small>Input bloom period -> Mid</small>	0.0050	1.38	6	\$1,200	275.5	0.1	6.8%	\$6	Perennial Forb	X
12	Goldenrod, Gray (Field) <small>Input bloom period -></small>	0.0050	0.55	3	\$600	110.2	0.3	2.7%	\$3	Perennial Forb	X
13	Goldenrod, Stiff <small>Input bloom period -> Late</small>	0.010	0.15	4	\$225	15.1	2.3	0.7%	\$2	Perennial Forb	X
14	Bundleflower, Illinois <small>Input bloom period -> Mid</small>	0.32	0.45	4	\$45	1.4	25.1	2.2%	\$14	Perennial Forb	
15	Joe Pye Weed, Spotted <small>Input bloom period -></small>	0.020	0.70	5	\$300	34.9	1.0	3.5%	\$6	Perennial Forb	X
16	Lupine, Sundial (Wild) <small>Input bloom period -> Early</small>	0.60	0.31	8	\$800	0.5	68.1	1.5%	\$480	Perennial Forb, Legume	
17	Milkweed, Butterfly <small>Input bloom period -> Mid</small>	0.050	0.079	5	\$300	1.6	22.2	0.4%	\$15	Perennial Forb	X
18	Milkweed, Common <small>Input bloom period -> Mid</small>	0.080	0.12	0	\$120	1.5	23.8	0.6%	\$10	Perennial Forb	X
19	Milkweed, Swamp <small>Input bloom period -> Mid</small>	0.070	0.11	4	\$180	1.6	22.2	0.5%	\$13	Perennial Forb	X
20	Mountainmint, Virginia (Common) <small>Input bloom period -> Mid</small>	0.0050	0.40	5	\$450	80.8	0.4	2.0%	\$2	Perennial Forb	X
21	Mountainmint, Narrowleaf <small>Input bloom period -> Late</small>	0.0050	0.69	4	\$450	138.8	0.3	3.4%	\$2	Perennial Forb	X
22	Partridge Pea <small>Input bloom period -> Late</small>	0.50	0.57	1	\$25	1.1	30.7	2.8%	\$13	Annual Forb, Legume	

23	Prairie Clover, Purple	<i>Dalea purpurea</i>	0.20		8	\$45	6.2	5.6	6.2%	\$9	Perennial Forb, Legume	X
	Input bloom period ->	Late		1.25								
24	Prairie Clover, White	<i>Dalea candida</i>	0.048		9	\$90	7.0	5.0	1.7%	\$4	Perennial Forb, Legume	X
	Input bloom period ->	Mid		0.33								
25	Spiderwort, Bluejacket (Ohio)	<i>Tradescantia ohiensis</i>	0.020		3	\$300	2.9	11.9	0.3%	\$6	Perennial Forb	
	Input bloom period ->	Early		0.059								
26	Susan, Black-eyed	<i>Rudbeckia hirta</i>	0.063		2	\$45	34.4	1.0	10.7%	\$3	Biennial Forb	X
	Input bloom period ->	Mid		2.17								
27	Verbena, Hoary	<i>Verbena stricta</i>	0.020		2	\$75	12.3	2.9	1.2%	\$2	Perennial Forb	X
	Input bloom period ->			0.25								
28										\$0.00		
	Input bloom period ->											
29										\$0.00		
	Input bloom period ->											
30										\$0.00		
	Input bloom period ->											
31										\$0.00		
	Input bloom period ->											
32										\$0.00		
	Input bloom period ->											
33										\$0.00		
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35										\$0.00		
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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)	\$645		
FORBS/LEGUMES TOTAL		26	2.67	15.11	4.6							

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES												
Common Name	Scientific Name Flowering Period	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	3.39	20.2	4.7	30	25.7		\$655

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	8	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	5.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15	15.1	Meets Criteria
Total Seeds/ft ² , Minimum	20	20.2	Meets Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	10	5.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	30	15.1	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%	74.9%	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	9.0	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	5.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	15.1	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	5.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	15.1	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%	74.9%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	15.1	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	15.1	Meets Criteria