

Customize Options to Suit Site Conditions

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

Natural Resources Conservation Service

To override default cost, enter your cost in the applicable cell.

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 Bluestem, Big	<i>Andropogon gerardii</i>	0.80		5	\$7	3.0	11.7	7.9%	\$6	Perennial Warm Season Grass
	Bunch		2.39							
2 Grama, Sideoats	<i>Bouteloua curtipendula</i>	0.60		7	\$9	4.4	8.0	8.6%	\$5	Perennial Warm Season Grass
	Rhizomatous		2.62							
3 Lovegrass, Sand	<i>Eragrostis trichodes</i>	0.10		5	\$75	35.6	1.0	11.7%	\$8	Perennial Warm Season Grass
	Bunch		3.56							
4 Switchgrass	<i>Panicum virgatum</i>	0.50		4	\$8	9.2	4.0	15.1%	\$4	Perennial Warm Season Grass
	Rhizomatous		4.59							
5 Bluestem, Little	<i>Schizachyrium scoparium</i>	0.72		5	\$12	5.9	6.0	13.9%	\$9	Perennial Warm Season Grass
	Bunch		4.22							
6 Indiangrass	<i>Sorghastrum nutans</i>	0.70		4	\$6	3.9	9.0	9.0%	\$4	Perennial Warm Season Grass
	Bunch		2.73							
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)	\$35
GRAMINOID TOTAL	6	3.42	20.10	5.0			

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> Mid	0.031	0.046	0	\$120	1.5	23.8	0.2%	\$4	Perennial Forb	X
2	Milkweed, Butterfly <small>Input bloom period -></small>	<i>Asclepias tuberosa</i> Mid	0.020	0.032	5	\$300	1.6	22.2	0.1%	\$6	Perennial Forb	X
3	Milkvetch, Canadian <small>Input bloom period -></small>	<i>Astragalus canadensis</i> Mid	0.010	0.057	7	\$120	5.7	6.1	0.2%	\$1	Perennial Forb, Legume	
4	Partridge Pea <small>Input bloom period -></small>	<i>Chamaecrista fasciculata</i> Late	0.15	0.17	1	\$25	1.1	30.7	0.6%	\$4	Annual Forb, Legume	
5	Coreopsis, Lanceleaf Tickseed <small>Input bloom period -></small>	<i>Coreopsis lanceolata</i> Mid	0.10	0.73	5	\$1,280	7.3	4.8	2.4%	\$128	Perennial Forb	X
6	Prairie Clover, White <small>Input bloom period -></small>	<i>Dalea candida</i> Mid	0.030	0.21	9	\$90	7.0	5.0	0.7%	\$3	Perennial Forb, Legume	X
7	Prairie Clover, Purple <small>Input bloom period -></small>	<i>Dalea purpurea</i> Mid	0.15	0.94	8	\$45	6.2	5.6	3.1%	\$7	Perennial Forb, Legume	X
8	Bundleflower, Illinois <small>Input bloom period -></small>	<i>Desmanthus illinoensis</i> Mid	0.10	0.14	4	\$45	1.4	25.1	0.5%	\$5	Perennial Forb, Legume	
9	Coneflower, Eastern Purple <small>Input bloom period -></small>	<i>Echinacea purpurea</i> Mid	0.15	0.36	6	\$45	2.4	14.4	1.2%	\$7	Perennial Forb	X
10	Alumroot <small>Input bloom period -></small>	<i>Heuchera richardsonii</i> Early	0.0020	0.51	8	\$900	252.5	0.1	1.7%	\$2	Perennial Forb	
11	Bergamot, Wild <small>Input bloom period -></small>	<i>Monarda fistulosa</i> Mid	0.040	1.10	4	\$150	27.5	1.3	3.6%	\$6	Perennial Forb	X
12	Beardtongue, Foxglove <small>Input bloom period -></small>	<i>Penstemon digitalis</i> Early	0.015	0.72	4	\$150	47.8	0.7	2.4%	\$2	Perennial Forb	
13	Cinquefoil, Tall <small>Input bloom period -></small>	<i>Potentilla arguta</i> Late	0.010	0.84	10	\$120	84.5	0.4	2.8%	\$1	Perennial Forb	
14	Mountainmint, Narrowleaf <small>Input bloom period -></small>	<i>Pycnanthemum tenuifolium</i> Late	0.0030	0.42	4	\$450	138.8	0.3	1.4%	\$1	Perennial Forb	X
15	Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -></small>	<i>Ratibida pinnata</i> Mid	0.020	0.29	4	\$60	14.3	2.4	0.9%	\$1	Perennial Forb	
16	Susan, Black-eyed <small>Input bloom period -></small>	<i>Rudbeckia hirta</i> Mid	0.063	2.17	2	\$45	34.4	1.0	7.2%	\$3	Biennial Forb	X
17	Goldenrod, Gray (Field) <small>Input bloom period -></small>	<i>Solidago nemoralis</i> Late	0.0030	0.33	3	\$600	110.2	0.3	1.1%	\$2	Perennial Forb	X
18	Aster, Calico <small>Input bloom period -></small>	<i>Symphotrichum lateriflorum</i> Late	0.0040	0.37	2	\$600	91.8	0.4	1.2%	\$2	Perennial Forb	X
19	Aster, New England <small>Input bloom period -></small>	<i>Symphotrichum novae-angliae</i> Late	0.0050	0.12	4	\$300	24.2	1.4	0.4%	\$2	Perennial Forb	X
20	Verbena, Hoary <small>Input bloom period -></small>	<i>Verbena stricta</i> Late	0.030	0.37	2	\$75	12.3	2.9	1.2%	\$2	Perennial Forb	X
21	Zizia, Golden (Alexander's) <small>Input bloom period -></small>	<i>Zizia aurea</i> Early	0.070	0.31	6	\$120	4.4	7.9	1.0%	\$8	Perennial Forb	
22	<small>Input bloom period -></small>									\$0.00		

	lbs / acre PLS	seeds / ft ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	4.43	30.3	4.7	27	24.6		\$232

Illinois NRCS 420 Wildlife Habitat Planting Implementation Requirements Full Seeding			
Requirement	Criteria	Mix	Criteria Met
Requirements for sites on < 5% slope			
Grass Seeds/ft ² , Minimum	10.0	20.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.2	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	30.3	Meets Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	20.0	20.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.2	Meets Criteria
Total Seeds/ft ² , Minimum	30.0	30.3	Meets Criteria
Wildlife Special Purposes Escape and Nesting Cover Requirements			
Wildlife monoculture native grass (PLS/ft ²)	30.0	20.1	Does Not Meet Criteria

Illinois NRCS 420 Wildlife Habitat Planting Diverse Grass and Forb Stand (>15 desirable Species) Interseeding 1/2 Rate			
Requirement	Criteria	Mix	Criteria Met
Grass and Forb Interseeding on < 5% slope			
Grass Seeds/ft ² , Minimum	5.0	20.1	Meets Criteria
Forb & Shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria
Total Seeds/ft ² , minimum	10.0	30.3	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	10	20.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria
Total Seeds/ft ² , Minimum	15	30.3	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria

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	5	Meets Criteria
Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass)	Absent	Present	Does Not Meet Criteria
Requirements for sites on < 5% slope			
Grass Seeds/ft ² , Maximum	5	20.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15	10.2	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	20	30.3	Meets Criteria
Requirements for sites on >=5% slope			
Grass Seeds/ft ² , Minimum	10	20.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	30	10.2	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	40	30.3	Does Not Meet Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.3%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Minimum	60.0%	70.4%	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	7.0	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3	6.0	Meets Criteria
Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass)	Absent	Present	Does Not Meet Criteria
Grass and Forb Interseeding on < 5% slope			
Grass Seeds/ft ² , Maximum	2.5	20.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	10.2	Meets Criteria
Total Seeds/ft ² , Minimum	10.0	30.3	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	5	20.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	10.2	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	20.0	30.3	Meets Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.3%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Min	60.0%	70.4%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	10.2	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	10.2	Does Not Meet Criteria