

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, Big	<i>Andropogon gerardii</i>	0.35		5	\$7	3.0	11.7	3.5%	\$2	Perennial Warm Season Grass
	Bunch		1.04							
2 Bluestem, Little	<i>Schizachyrium scoparium</i>	0.50		5	\$12	5.9	6.0	9.7%	\$6	Perennial Warm Season Grass
	Bunch		2.93							
3									\$0.00	
4 Dropseed, Composite	<i>Sporobolus compositus</i>	0.26		3	\$17	11.0	3.2	9.5%	\$4	Perennial Warm Season Grass
	Bunch		2.87							
5 Indiangrass	<i>Sorghastrum nutans</i>	0.25		4	\$6	3.9	9.0	3.2%	\$2	Perennial Warm Season Grass
	Bunch		0.98							
6 Junegrass, Prairie	<i>Koeleria macrantha</i>	0.10		7	\$75	33.6	1.0	11.2%	\$8	Perennial Cool Season Grass
	Bunch		3.36							
7 Grama, Sideoats	<i>Bouteloua curtipendula</i>	0.25		7	\$9	4.4	8.0	3.6%	\$2	Perennial Warm Season Grass
	Rhizomatous		1.09							
8 Switchgrass	<i>Panicum virgatum</i>	0.40		4	\$8	9.2	4.0	12.2%	\$3	Perennial Warm Season Grass
	Rhizomatous		3.67							
9 Grama, Blue	<i>Bouteloua gracilis</i>	0.20		5	\$15	16.3	2.1	10.8%	\$3	Perennial Warm Season Grass
	Bunch		3.26							
10 Wheatgrass, Slender	<i>Elymus trachycaulus</i>	0.35		8	\$8	2.5	13.8	2.9%	\$3	Perennial Cool Season Grass
	Bunch		0.89							
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)	\$33
GRAMINOID TOTAL		9	2.66	20.09	5.3						

CHOOSE YOUR FORBS/LEGUMES												
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)	<i>Zizia aurea</i>	0.020		6	\$120	4.4	7.9	0.3%	\$2	Perennial Forb	
	Input bloom period ->	Early		0.088								
2	Aster, Heath	<i>Symphotrichum ericoides</i>	0.0020		3	\$1,600	73.5	0.5	0.5%	\$3	Perennial Forb	X
	Input bloom period ->	Late		0.15								
3	Aster, New England	<i>Symphotrichum novae-angliae</i>	0.0020		4	\$300	24.2	1.4	0.2%	\$0.60	Perennial Forb	X
	Input bloom period ->	Late		0.048								
4	Aster, Smooth Blue	<i>Symphotrichum laeve</i>	0.0020		8	\$300	18.4	1.9	0.1%	\$0.60	Perennial Forb	X
	Input bloom period ->	Late		0.037								
5	Beardtongue, Foxglove	<i>Penstemon digitalis</i>	0.0050		4	\$150	47.8	0.7	0.8%	\$0.75	Perennial Forb	
	Input bloom period ->	Early		0.24								
6	Bergamot, Wild	<i>Monarda fistulosa</i>	0.022		4	\$150	27.5	1.3	2.0%	\$3	Perennial Forb	X
	Input bloom period ->	Mid		0.61								
7	Blazing Star, Dense	<i>Liatris spicata</i>	0.010		7	\$150	4.0	8.7	0.1%	\$2	Perennial Forb	X
	Input bloom period ->	Mid		0.040								
8	Cinquefoil, Tall	<i>Potentilla arguta</i>	0.0070		10	\$120	84.5	0.4	2.0%	\$0.84	Perennial Forb	
	Input bloom period ->	Late		0.59								
9	Coneflower, pinnate prairie (gray-head)	<i>Ratibida pinnata</i>	0.010		4	\$60	14.3	2.4	0.5%	\$0.60	Perennial Forb	
	Input bloom period ->	Mid		0.14								
10	Coneflower, Eastern purple	<i>Echinacea purpurea</i>	0.10		6	\$45	2.4	14.4	0.8%	\$5	Perennial Forb	X
	Input bloom period ->	Mid		0.24								
11	Coreopsis, Lanceleaf tickseed	<i>Coreopsis lanceolata</i>	0.15		5	\$1,280	7.3	4.8	3.7%	\$192	Perennial Forb	X
	Input bloom period ->	Mid		1.10								
12	Culver's Root	<i>Veronicastrum virginicum</i>	0.0030		6	\$1,200	275.5	0.1	2.7%	\$4	Perennial Forb	X
	Input bloom period ->	Mid		0.83								
13	Goldenrod, Gray (Field)	<i>Solidago nemoralis</i>	0.0030		3	\$600	110.2	0.3	1.1%	\$2	Perennial Forb	X
	Input bloom period ->	Late		0.33								
14	Goldenrod, Stiff	<i>Oligoneuron rigidum</i>	0.010		4	\$225	15.1	2.3	0.5%	\$2	Perennial Forb	X
	Input bloom period ->	Late		0.15								
15	Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	0.10		4	\$45	1.4	25.1	0.5%	\$5	Perennial Forb	
	Input bloom period ->	Mid		0.14								
16	Lupine, Sundial (Wild)	<i>Lupinus perennis</i>	0.15		8	\$800	0.5	68.1	0.3%	\$120	Perennial Forb, Legume	
	Input bloom period ->	Early		0.077								
17	Milkvetch, Canadian	<i>Astragalus canadensis</i>	0.020		7	\$120	5.7	6.1	0.4%	\$2	Perennial Forb, Legume	
	Input bloom period ->	Mid		0.11								
18	Milkweed, Butterfly	<i>Asclepias tuberosa</i>	0.010		5	\$300	1.6	22.2	0.1%	\$3	Perennial Forb	X
	Input bloom period ->	Mid		0.016								
19	Milkweed, Common	<i>Asclepias syriaca</i>	0.020		0	\$120	1.5	23.8	0.1%	\$2	Perennial Forb	X
	Input bloom period ->	Mid		0.029								
20	Beebalm, Spotted (Horsemint)	<i>Monarda punctata</i>	0.020		5	\$225	33.1	1.1	2.2%	\$5	Biennial Forb	X
	Input bloom period ->	Late		0.66								
21	Mountainmint, Virginia (Common)	<i>Pycnanthemum virginianum</i>	0.0010		5	\$450	80.8	0.4	0.3%	\$0.45	Perennial Forb	X
	Input bloom period ->	Late		0.081								
22	Mountainmint, Narrowleaf	<i>Pycnanthemum tenuifolium</i>	0.010		4	\$450	138.8	0.3	4.6%	\$5	Perennial Forb	X
	Input bloom period ->	Late		1.39								

23	Partridge Pea	<i>Chamaecrista fasciculata</i>	0.15		1	\$25	1.1	30.7	0.6%	\$4	Annual Forb, Legume	
	Input bloom period ->	Late		0.17								
24	Prairie Clover, Purple	<i>Dalea purpurea</i>	0.030		8	\$45	6.2	5.6	0.6%	\$1	Perennial Forb, Legume	X
	Input bloom period ->	Mid		0.19								
25	Prairie Clover, White	<i>Dalea candida</i>	0.010		9	\$90	7.0	5.0	0.2%	\$0.90	Perennial Forb, Legume	X
	Input bloom period ->	Mid		0.070								
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	7.2%	\$3	Biennial Forb	X
	Input bloom period ->	Mid		2.17								
28	Susan, Browneyed	<i>Rudbeckia triloba</i>	0.010		3	\$90	12.9	2.7	0.4%	\$0.90	Biennial Forb	X
	Input bloom period ->	Late		0.13								
29	Verbena, Hoary	<i>Verbena stricta</i>	0.010		2	\$75	12.3	2.9	0.4%	\$0.75	Perennial Forb	X
	Input bloom period ->	Mid		0.12								
30										\$0.00		
	Input bloom period ->											
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)	\$370		
FORBS/LEGUMES TOTAL		29	0.95	9.95	4.8							

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	Leadplant	<i>Amorpha canescens</i>	0.015		8	\$225.00	6	6	0.0%	\$3	Sub-Shrub, Legume	X
	Input bloom period ->		0.094							\$0.00		
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)	\$3		
VINE & WOODY PLANT TOTAL		1	0.02	0.09	8.0							

	lbs / acre PLS	seeds / ft ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	3.63	30.1	5.0	39	31.4		\$407

Illinois NRCS 327 Conservation Cover Job Sheet 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	10.0	Meets Criteria
Total Seeds/ft ² , Minimum	20.0	30.1	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	10.0	Meets Criteria
Total Seeds/ft ² , Minimum	30.0	30.1	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 327 Conservation Cover Diverse Grass and Forb Stand (>15 desirable Species) Interseeding ½ 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	10.0	Meets Criteria
Total Seeds/ft ² , minimum	10.0	30.1	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.0	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	10.0	Meets Criteria
Total Seeds/ft ² , Minimum	15	30.1	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.0	Meets Criteria