

Customize Options to Suit Site Conditions

← Pick an Ecoregion

Mesic (dry)
 Mesic (medium)
 Hydric (wet)

Prairie
 Savanna
 Wetland
 Woodland

Long Term Program
 Short Term Program

Monarch Preferred Species
 Forage and Biomass (S12) Planting

CHOOSE A RATE SPECIFICATION:

lbs/acre PLS (check a mix)
 Seeds/ft2 PLS (design a mix)



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	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
		Equivalent rate below								
1 Bluestem, Little	<i>Schizachyrium scoparium</i>	0.35		5	\$12	5.9	6.0	10.0%	\$4	Perennial Warm Season Grass
	Bunch		2.05							
2 Gramma, Sideoats	<i>Bouteloua curtipendula</i>	0.35		7	\$9	4.4	8.0	7.4%	\$3	Perennial Warm Season Grass
	Rhizomatous		1.53							
3 Dropseed, Composite	<i>Sporobolus compositus</i>	0.025		3	\$17	11.0	3.2	1.3%	\$0.43	Perennial Warm Season Grass
	Bunch		0.28							
4 Dropseed, Sand	<i>Sporobolus cryptandrus</i>	0.0020		4	\$15	114.8	0.3	1.1%	\$0.03	Perennial Warm Season Grass
	Bunch		0.23							
5 Junegrass, Prairie	<i>Koeleria macrantha</i>	0.025		7	\$75	33.6	1.0	4.1%	\$2	Perennial Cool Season Grass
	Bunch		0.84							
6 Dropseed, Prairie	<i>Sporobolus heterolepis</i>	0.021		9	\$180	27.5	1.3	2.8%	\$4	Perennial Warm Season Grass
	Bunch		0.58							
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	

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)	\$13		
GRAMINOID TOTAL		6	0.77	5.50	5.8						

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)	<i>Zizia aurea</i>	0.070	0.31	6	\$120	4.4	7.9	1.5%	\$8	Perennial Forb	
	Input bloom period -> Early										
2 Aster, Heath	<i>Symphotrichum ericoides</i>	0.0080	0.59	3	\$1,600	73.5	0.5	2.9%	\$13	Perennial Forb	X
	Input bloom period -> Late										
3 aster, new england	<i>Symphotrichum novae-angliae</i>	0.010	0.24	4	\$300	24.2	1.4	1.2%	\$3	Perennial Forb	X
	Input bloom period -> Late										
4 aster, smooth blue	<i>Symphotrichum laeve</i>	0.040	0.73	8	\$300	18.4	1.9	3.6%	\$12	Perennial Forb	X
	Input bloom period -> Early										
5 beardtongue, foxglove	<i>Penstemon digitalis</i>	0.015	0.72	4	\$150	47.8	0.7	3.5%	\$2	Perennial Forb	
	Input bloom period -> Early										
6 bergamot, wild	<i>Monarda fistulosa</i>	0.040	1.10	4	\$150	27.5	1.3	5.4%	\$6	Perennial Forb	X
	Input bloom period -> Mid										
7 Blazing Star, Prairie	<i>Liatris pycnostachya</i>	0.0020	0.0055	6	\$120	2.8	12.7	0.0%	\$0.24	Perennial Forb	X
	Input bloom period -> Mid										
8 coneflower, pinnate prairie (gray-head)	<i>Ratibida pinnata</i>	0.050	0.72	4	\$60	14.3	2.4	3.5%	\$3	Perennial Forb	
	Input bloom period -> Mid										
9 coneflower, eastern purple	<i>Echinacea purpurea</i>	0.25	0.61	6	\$45	2.4	14.4	3.0%	\$11	Perennial Forb	X
	Input bloom period -> Mid										
10 coreopsis, lanceleaf tickseed	<i>Coreopsis lanceolata</i>	0.15	1.10	5	\$1,280	7.3	4.8	5.4%	\$192	Perennial Forb	X
	Input bloom period -> Mid										
11 culver's root	<i>Veronicastrum virginicum</i>	0.0040	1.10	6	\$1,200	275.5	0.1	5.4%	\$5	Perennial Forb	X
	Input bloom period -> Mid										
12 goldenrod, gray (field)	<i>Solidago nemoralis</i>	0.0050	0.55	3	\$600	110.2	0.3	2.7%	\$3	Perennial Forb	X
	Input bloom period -> Late										
13 goldenrod, stiff	<i>Oligoneuron rigidum</i>	0.020	0.30	4	\$225	15.1	2.3	1.5%	\$5	Perennial Forb	X
	Input bloom period -> Late										
14 Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	0.26	0.36	4	\$45	1.4	25.1	1.8%	\$12	Perennial Forb	
	Input bloom period -> Mid										
15 wild indigo, white	<i>Baptisia alba</i>	0.010	0.0062	6	\$300	0.6	56.1	0.0%	\$3	Perennial Forb, Legume	
	Input bloom period -> Mid										
16 lupine, sundial (wild)	<i>Lupinus perennis</i>	0.60	0.31	8	\$800	0.5	68.1	1.5%	\$480	Perennial Forb, Legume	
	Input bloom period -> Early										
17 milkvetch, canadian	<i>Astragalus canadensis</i>	0.010	0.057	7	\$120	5.7	6.1	0.3%	\$1	Perennial Forb, Legume	
	Input bloom period -> Mid										
18 milkweed, butterfly	<i>Asclepias tuberosa</i>	0.031	0.049	5	\$300	1.6	22.2	0.2%	\$9	Perennial Forb	X
	Input bloom period -> Mid										
19 milkweed, common	<i>Asclepias syriaca</i>	0.031	0.046	0	\$120	1.5	23.8	0.2%	\$4	Perennial Forb	X
	Input bloom period -> Mid										
20									\$0.00		
	Input bloom period ->										
21									\$0.00		
	Input bloom period ->										
22 mountainmint, narrowleaf	<i>Pycnanthemum tenuifolium</i>	0.0070	0.97	4	\$450	138.8	0.3	4.7%	\$3	Perennial Forb	X
	Input bloom period -> Late										
23 partridge pea	<i>Chamaecrista fasciculata</i>	0.25	0.28	1	\$25	1.1	30.7	1.4%	\$6	Annual Forb, Legume	
	Input bloom period -> Late										

24	prairie clover, purple	<i>Dalea purpurea</i>	0.20		8	\$45	6.2	5.6	6.1%	\$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	1.7%	\$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	10.6%	\$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	3.1%	\$5	Biennial Forb	X	
	Input bloom period ->	Late		0.64									
29	verbena, hoary	<i>Verbena stricta</i>	0.035		2	\$75	12.3	2.9	2.1%	\$3	Perennial Forb	X	
	Input bloom period ->	Mid		0.43									
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)	\$805		
FORBS/LEGUMES TOTAL			27	2.26	15.00	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 ->	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	3.04	20.5	4.8	33	27.9		\$819