

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 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 Click ↘	Growth Form	Equivalent rate below								
1	Bluestem, Big	0.50	1.49	5		3.0	11.7	7.3%	\$0.00	Perennial Warm Season Grass
	Bunch									
2	Bluestem, Little	0.50	2.93	5		5.9	6.0	14.3%	\$0.00	Perennial Warm Season Grass
	Bunch									
3	Indiangrass	0.50	1.95	4		3.9	9.0	9.5%	\$0.00	Perennial Warm Season Grass
	Bunch									
4	Wildrye, Virginia	1.00	1.72	4		1.7	20.3	8.4%	\$0.00	Perennial Cool Season Grass
	Bunch									
5	Switchgrass	0.25	2.30	4		9.2	4.0	11.2%	\$0.00	Perennial Warm Season Grass
	Rhizomatous									
6	Dropseed, Composite	0.25	2.75	3		11.0	3.2	13.5%	\$0.00	Perennial Warm Season Grass
	Bunch									
7	Gramma, Sideoats	0.35	1.53	7		4.4	8.0	7.5%	\$0.00	Perennial Warm Season Grass
	Rhizomatous									
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 / ft² PLS	Average CC				
GRAMINOID TOTAL		7	3.35	14.67	4.6	ESTIMATED GRAMINOID COST (\$/AC)		OST (\$/AC)	\$0

CHOOSE YOUR FORBS/LEGUMES											
↩ Input quantity ↪											
Common Name *Select Plants Click ↪	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 Aster, Smooth Blue	<i>Symphotrichum laeve</i>	0.010	0.18	8		18.4	1.9	0.9%	\$0.00	Perennial Forb	X
	Input bloom period -> Late										
2 Beardtongue, Foxglove	<i>Penstemon digitalis</i>	0.010	0.48	4		47.8	0.7	2.3%	\$0.00	Perennial Forb	
	Input bloom period -> Early										
3 Bergamot, Wild	<i>Monarda fistulosa</i>	0.020	0.55	4		27.5	1.3	2.7%	\$0.00	Perennial Forb	X
	Input bloom period -> Mid										
4 Blazing Star, Prairie	<i>Liatris pycnostachya</i>	0.0050	0.014	6		2.8	12.7	0.1%	\$0.00	Perennial Forb	X
	Input bloom period -> Late										
5 Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	0.10	0.14	4		1.4	25.1	0.7%	\$0.00	Perennial Forb, Legume	
	Input bloom period -> Mid										
6 Coneflower, Pale Purple	<i>Echinacea pallida</i>	0.050	0.096	7		1.9	18.3	0.5%	\$0.00	Perennial Forb	X
	Input bloom period -> Mid										
7 Coneflower, Pinnate Prairie (Gray-headed)	<i>Ratibida pinnata</i>	0.030	0.43	4		14.3	2.4	2.1%	\$0.00	Perennial Forb	
	Input bloom period -> Mid										
8 Coreopsis, Lanceleaf Tickseed	<i>Coreopsis lanceolata</i>	0.050	0.37	5		7.3	4.8	1.8%	\$0.00	Perennial Forb	X
	Input bloom period -> Late										
9 Goldenrod, Stiff	<i>Oligoneuron rigidum</i>	0.0080	0.12	4		15.1	2.3	0.6%	\$0.00	Perennial Forb	X
	Input bloom period -> Late										
10 Milkvetch, Canadian	<i>Astragalus canadensis</i>	0.020	0.11	7		5.7	6.1	0.6%	\$0.00	Perennial Forb, Legume	
	Input bloom period -> Mid										
11 Spiderwort, Bluejacket (Ohio)	<i>Tradescantia ohioensis</i>	0.010	0.029	3		2.9	11.9	0.1%	\$0.00	Perennial Forb	
	Input bloom period ->										
12 Oxeye, Smooth (False Sunflower)	<i>Heliopsis helianthoides</i>	0.080	0.19	4		2.4	14.7	0.9%	\$0.00	Perennial Forb	X
	Input bloom period -> Late										
13 Prairie Clover, White	<i>Dalea candida</i>	0.070	0.49	9		7.0	5.0	2.4%	\$0.00	Perennial Forb, Legume	X
	Input bloom period ->										
14 Prairie Clover, Purple	<i>Dalea purpurea</i>	0.070	0.44	8		6.2	5.6	2.1%	\$0.00	Perennial Forb, Legume	X
	Input bloom period -> Mid										
15 Susan, Black-eyed	<i>Rudbeckia hirta</i>	0.050	1.72	2		34.4	1.0	8.4%	\$0.00	Biennial Forb	X
	Input bloom period -> Late										
16 Verbena, Hoary	<i>Verbena stricta</i>	0.010	0.12	2		12.3	2.9	0.6%	\$0.00	Perennial Forb	X
	Input bloom period -> Late										
17 Zizia, Golden (Alexander's)	<i>Zizia aurea</i>	0.070	0.31	6		4.4	7.9	1.5%	\$0.00	Perennial Forb	
	Input bloom period -> Early										
18									\$0.00		
	Input bloom period ->										
19									\$0.00		
	Input bloom period ->										
20									\$0.00		
	Input bloom period ->										
21									\$0.00		
	Input bloom period ->										
22									\$0.00		
	Input bloom period ->										
23									\$0.00		
	Input bloom period ->										
24									\$0.00		
	Input bloom period ->										
25									\$0.00		

26	Input bloom period ->										\$0.00	
27	Input bloom period ->										\$0.00	
28	Input bloom period ->										\$0.00	
29	Input bloom period ->										\$0.00	
30	Input bloom period ->										\$0.00	
31	Input bloom period ->										\$0.00	
32	Input bloom period ->										\$0.00	
33	Input bloom period ->										\$0.00	
34	Input bloom period ->										\$0.00	
35	Input bloom period ->										\$0.00	
36	Input bloom period ->										\$0.00	
37	Input bloom period ->										\$0.00	
38	Input bloom period ->										\$0.00	
39	Input bloom period ->										\$0.00	
40	Input bloom period ->										\$0.00	
		Species Richness	lbs / acre PLS	seeds / ft ² PLS	Average CC	ESTIMATED FORB COST (\$/AC)			COST (\$/AC)	\$0		
FORBS/LEGUMES TOTAL		17	0.66	5.79	5.1							

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	Input bloom period ->								\$0.00			
2	Input bloom period ->								\$0.00			
3	Input bloom period ->								\$0.00			
4	Input bloom period ->								\$0.00			
5	Input bloom period ->								\$0.00			
		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	4.01	20.5	5.0	24	24.3		\$0