

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	<i>Andropogon gerardii</i>	1.00		5		3.0	11.7	13.8%	\$0.00	Perennial Warm Season Grass
	Bunch		2.98							
2 Wildrye, Virginia	<i>Elymus virginicus</i>	0.40		4		1.7	20.3	3.2%	\$0.00	Perennial Cool Season Grass
	Bunch		0.69							
3 Indiangrass	<i>Sorghastrum nutans</i>	1.00		4		3.9	9.0	18.0%	\$0.00	Perennial Warm Season Grass
	Bunch		3.90							
4 Switchgrass	<i>Panicum virgatum</i>	0.30		4		9.2	4.0	12.7%	\$0.00	Perennial Warm Season Grass
	Rhizomatous		2.75							
5 Bluestem, Little	<i>Schizachyrium scoparium</i>	0.20		5		5.9	6.0	5.4%	\$0.00	Perennial Warm Season Grass
	Bunch		1.17							
6 Grama, Sideoats	<i>Bouteloua curtipendula</i>	0.25		7		4.4	8.0	5.0%	\$0.00	Perennial Warm Season Grass
	Rhizomatous		1.09							
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 / ft² PLS	Average CC					
GRAMINOID TOTAL		6	3.15	12.59	4.8	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, New England	<i>Symphotrichum novae-angliae</i>	0.0040	0.097	4		24.2	1.4	0.4%	\$0.00	Perennial Forb	X
Input bloom period ->											
2 Aster, Smooth Blue	<i>Symphotrichum laeve</i>	0.0030	0.055	8		18.4	1.9	0.3%	\$0.00	Perennial Forb	X
Input bloom period ->											
3 Susan, Black-eyed	<i>Rudbeckia hirta</i>	0.060	2.07	2		34.4	1.0	9.5%	\$0.00	Biennial Forb	X
Input bloom period ->											
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 ->											
5 Bergamot, Wild	<i>Monarda fistulosa</i>	0.050	1.38	4		27.5	1.3	6.4%	\$0.00	Perennial Forb	X
Input bloom period ->											
6 Goldenrod, Stiff	<i>Oligoneuron rigidum</i>	0.0030	0.045	4		15.1	2.3	0.2%	\$0.00	Perennial Forb	X
Input bloom period ->											
7 Coneflower, Pinnate Prairie (Gray-headed)	<i>Ratibida pinnata</i>	0.040	0.57	4		14.3	2.4	2.6%	\$0.00	Perennial Forb	
Input bloom period ->											
8 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 ->											
9 Bundlesflower, Illinois	<i>Desmanthus illinoensis</i>	0.30	0.42	4		1.4	25.1	1.9%	\$0.00	Perennial Forb, Legume	
Input bloom period ->											
10 Coreopsis, Lanceleaf Tickseed	<i>Coreopsis lanceolata</i>	0.18	1.32	5		7.3	4.8	6.1%	\$0.00	Perennial Forb	X
Input bloom period ->											
11 Ticktrefoil, Showy	<i>Desmodium canadense</i>	0.020	0.040	5		2.0	17.3	0.2%	\$0.00	Perennial Forb, Legume	
Input bloom period ->											
12 Milkweed, Common	<i>Asclepias syriaca</i>	0.010	0.015	0		1.5	23.8	0.1%	\$0.00	Perennial Forb	X
Input bloom period ->											
13 Mountainmint, Narrowleaf	<i>Pycnanthemum tenuifolium</i>	0.0060	0.83	4		138.8	0.3	3.8%	\$0.00	Perennial Forb	X
Input bloom period ->											
14 Oxeye, Smooth (False Sunflower)	<i>Heliopsis helianthoides</i>	0.10	0.24	4		2.4	14.7	1.1%	\$0.00	Perennial Forb	X
Input bloom period ->											
15 Prairie Clover, Purple	<i>Dalea purpurea</i>	0.090	0.56	8		6.2	5.6	2.6%	\$0.00	Perennial Forb, Legume	X
Input bloom period ->											
16 Coneflower, Pale Purple	<i>Echinacea pallida</i>	0.025	0.048	7		1.9	18.3	0.2%	\$0.00	Perennial Forb	X
Input bloom period ->											
17 Beardtongue, Foxglove	<i>Penstemon digitalis</i>	0.010	0.48	4		47.8	0.7	2.2%	\$0.00	Perennial Forb	
Input bloom period ->											
18 Prairie Clover, White	<i>Dalea candida</i>	0.090	0.63	9		7.0	5.0	2.9%	\$0.00	Perennial Forb, Legume	X
Input bloom period ->											
19									\$0.00		
Input bloom period ->											
20									\$0.00		
Input bloom period -> Late											
21									\$0.00		
Input bloom period -> Late											
22									\$0.00		
Input bloom period -> Early											
23									\$0.00		
Input bloom period -> Late											
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	18	1.01	8.93	4.7			

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>	0.020	0.12	8		6	6	0.0%	\$0.00	Sub-Shrub, Legume	X
2	Input bloom period ->								\$0.00		
3	Input bloom period -> Mid								\$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	1	0.02	0.12	8.0			

	lbs / acre PLS	seeds / ft ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	4.18	21.7	4.8	25	24.2		\$0