

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



**United States
Department of
Agriculture**

Natural Resources Conservation Service

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.

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
1 Bluestem, Little	<i>Schizachyrium scoparium</i> Bunch	0.085	0.50	5	\$12	5.9	6.0	4.9%	\$1	Perennial Warm Season Grass
2 Grama, Sideoats	<i>Bouteloua curtipendula</i> Rhizomatous	0.11	0.48	7	\$9	4.4	8.0	4.8%	\$0.99	Perennial Warm Season Grass
3 Junegrass, Prairie	<i>Koeleria macrantha</i> Bunch	0.015	0.50	7	\$75	33.6	1.0	5.0%	\$1	Perennial Cool Season Grass
4 Dropseed, Prairie	<i>Sporobolus heterolepis</i> Bunch	0.018	0.50	9	\$180	27.5	1.3	4.9%	\$3	Perennial Warm Season Grass
5 Lovegrass, Sand	<i>Eragrostis trichodes</i> Bunch	0.014	0.50	5	\$75	35.6	1.0	5.0%	\$1	Perennial Warm Season Grass
6									\$0.00	
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	
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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)	\$7
GRAMINOID TOTAL	5	0.24	2.48	6.6			

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
1 Alumroot <small>Input bloom period -></small>	<i>Heuchera richardsonii</i> <small>Early</small>	0.00060	0.15	8	\$900	252.5	0.1	1.5%	\$0.54	Perennial Forb	
2 Ragwort, Golden <small>Input bloom period -></small>	<i>Packera aurea</i> <small>Early</small>	0.0056	0.15	4	\$2,124	26.8	1.3	1.5%	\$12	Perennial Forb	
3 Bunchflower, Illinois <small>Input bloom period -></small>	<i>Desmanthus illinoensis</i> <small>Mid</small>	0.40	0.56	4	\$45	1.4	25.1	5.5%	\$18	Perennial Forb, Legume	
4 Ticktrefoil, Showy <small>Input bloom period -></small>	<i>Desmodium canadense</i> <small>Mid</small>	0.0099	0.020	5	\$150	2.0	17.3	0.2%	\$1	Perennial Forb, Legume	
5 Aster, Smooth Blue <small>Input bloom period -></small>	<i>Symphotrichum laeve</i> <small>Mid</small>	0.0093	0.17	8	\$300	18.4	1.9	1.7%	\$3	Perennial Forb	X
6 Bergamot, Wild <small>Input bloom period -></small>	<i>Monarda fistulosa</i> <small>Late</small>	0.031	0.85	4	\$150	27.5	1.3	8.5%	\$5	Perennial Forb	X
7 Coneflower, Eastern Purple <small>Input bloom period -></small>	<i>Echinacea purpurea</i> <small>Late</small>	0.054	0.13	6	\$45	2.4	14.4	1.3%	\$2	Perennial Forb	X
8 Woman's Tobacco (Plantain-Leaved Pu) <small>Input bloom period -></small>	<i>Antennaria plantaginifolia</i> <small>Early</small>	0.0015	0.15	4	\$3,200	101.0	0.3	1.5%	\$5	Perennial Forb	
9 Verbena, Hoary <small>Input bloom period -></small>	<i>Verbena stricta</i> <small>Late</small>	0.0090	0.11	2	\$75	12.3	2.9	1.1%	\$0.68	Perennial Forb	X
10 Mountainmint, Narrowleaf <small>Input bloom period -></small>	<i>Pycnanthemum tenuifolium</i> <small>Mid</small>	0.012	1.67	4	\$450	138.8	0.3	16.6%	\$5	Perennial Forb	X
11 Susan, Black-eyed <small>Input bloom period -></small>	<i>Rudbeckia hirta</i> <small>Late</small>	0.055	1.89	2	\$45	34.4	1.0	18.8%	\$2	Biennial Forb	X
12 Coreopsis, Lanceleaf Tickseed <small>Input bloom period -></small>	<i>Coreopsis lanceolata</i> <small>Mid</small>	0.041	0.30	5	\$1,280	7.3	4.8	3.0%	\$52	Perennial Forb	X
13 Coneflower, Pinnate Prairie (Gray-head) <small>Input bloom period -></small>	<i>Ratibida pinnata</i> <small>Late</small>	0.0070	0.10	4	\$60	14.3	2.4	1.0%	\$0.42	Perennial Forb	
14 Wild Indigo, White <small>Input bloom period -></small>	<i>Baptisia alba</i> <small>Late</small>	0.0016	0.00100	6	\$300	0.6	56.1	0.0%	\$0.48	Perennial Forb, Legume	
15 Oxeye, Smooth (False Sunflower) <small>Input bloom period -></small>	<i>Heliopsis helianthoides</i> <small>Late</small>	0.021	0.050	4	\$60	2.4	14.7	0.5%	\$1	Perennial Forb	X
16 Partridge Pea <small>Input bloom period -></small>	<i>Chamaecrista fasciculata</i> <small>Late</small>	0.079	0.090	1	\$25	1.1	30.7	0.9%	\$2	Annual Forb, Legume	
17 Prairie Clover, Purple <small>Input bloom period -></small>	<i>Dalea purpurea</i> <small>Late</small>	0.19	1.19	8	\$45	6.2	5.6	11.8%	\$9	Perennial Forb, Legume	X
18 <small>Input bloom period -></small>									\$0.00		
19 <small>Input bloom period -></small>									\$0.00		
20 <small>Input bloom period -></small>									\$0.00		
21 <small>Input bloom period -></small>									\$0.00		
22 <small>Input bloom period -></small>									\$0.00		
23 <small>Input bloom period -></small>									\$0.00		

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40										\$0.00		
	Input bloom period ->											

	Species Richness	lbs / acre PLS	seeds / ft ² PLS	Average CC								
FORBS/LEGUMES TOTAL	17	0.93	7.59	4.6	ESTIMATED FORB COST (\$/AC)	COST (\$/AC)	\$120					

CHOOSE YOUR VINE OR Sub-Shrub PLANT SPECIES

Common Name	Scientific Name <small>Flowering Period</small>	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						\$0.00		
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								
VINE & WOODY PLANT TOTAL	0	0.00	0.00	0.0	ESTIMATED VINE & WOODY COST (\$/AC)	COST (\$/AC)	\$0					

	lbs / acre PLS	seeds / ft ² PLS	Average CC	Species Richness	Floristic Quality Index		ESTIMATED GRAND TOTAL COST (\$/AC)
GRAND TOTAL	1.17	10.1	5.1	22	23.9		\$128