Customize Options to Suit Site Conditions

		▼ ← ⋘ P	ick an Ecoregion				
○ Xeric (dry) ● Mesic (medium) ○ Hydric (wet)							
O Prairie	Savanna	○ Wetland	○ Woodland				
○ Long Term Program ○ Short Term Program							

O Monarch Preferred Species
Forage and Biomass (512) Planting

CHOOSE A RATE SPECIFICATION:

Ibs/acre PLS	O Seeds/ft2 PLS
(check a mix)	(design a mix)

United States Department of **Agriculture** To override default cost, enter your

cost in the

applicable

Natural Resources Conservation Service

Criteria Revision Update 5/26/2020 Species Information Update 8/26/2021

Species Information Update 8/26/2					cell.					
CHOOSE YOUR GRASSES		✓ Input	quantity 👈							
Common Name	Scientific Name	Lbs / acre PLS	l	Coefficient of Conservatism	Estimated	# Seeds / ft ²	Pure Stand PLS Rate		Estimated	
*Select Plants Click			t rate below		Cost (\$/lb)	@ 1 lb. / ac	lbs / ac	% of Mix	Cost (\$/ac)	Functional Group
Grama, Sideoats	Bouteloua curtipendula	0.80		7	\$9	4.4	8.0	11.5%	\$7	Perennial Warm Season Gras
	Rhizomatous	244	3.49	_	0	0.7.0	1	10.40/	l a	D
Lovegrass, Sand	Eragrostis trichodes	0.14	4.00	5	\$75	35.6	1.0	16.4%	\$11	Perennial Warm Season Gras
Luna areas Brainia	Bunch	0.040	4.98	7	Ф7 Е	22.0	T 4.0	4.40/		Deveniel Cool Cooper Cross
Junegrass, Prairie	Koeleria macrantha Bunch	0.040	1.35	/	\$75	33.6	1.0	4.4%	\$3	Perennial Cool Season Grass
Bluestem, Little	Schizachyrium scoparium	1.20	1.35	5	\$12	5.9	6.0	23.1%	\$14	Perennial Warm Season Gras
Bidestein, Little	Bunch	1.20	7.03	<u> </u>	ΨΙΖ	3.9	0.0	23.170	Ι Ψ14	r erenniai wann Season Gras
Dropseed, Composite	Sporobolus compositus	0.30	7.03	3	\$17	11.0	3.2	10.9%	\$5	Perennial Warm Season Gras
propoced, composite	Bunch	0.00	3.31	J	ΨΠ	11.0	0.2	10.070	μ ψο	r cremiai wanii ceason cras
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25						\$0.00
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27						\$0.00
	0.00%					
28						\$0.00
	0.00%					
29						\$0.00
	0.00%					
30						\$0.00
	0.00%					
		Species Richness	lbs / acre PLS	seeds / ft ² PLS	Average CC	
	GRAMINOID TOTAL	5	2.48	20.15	5.4	ESTIMATED GRAMINOID COST (\$/AC) OST (\$/AC) \$40

	CHOOSE YOUR FORBS/LEGUME	S	✓ Input q	uantity 👈								
		Scientific Name		Seeds / ft2 PLS	Coefficient of	Estimated	# Seeds / ft ²	Pure Stand PLS Rate		Estimated		
	"Select Plants Click	*Select Bloom Period below Scientific Name	'	rate below	Conservatism	Cost (\$/lb)	@ 1 lb. / ac	lbs / ac	% of Mix	` ′	Functional Group	Monarch Preferred
1	·	Asclepias syriaca	0.031	0.040	0	\$120	1.5	23.8	0.1%	\$4	Perennial Forb	X
	Input bloom period ->			0.046				ı	Ī			
2		Asclepias tuberosa	0.020	0.000	5	\$300	1.6	22.2	0.1%	\$6	Perennial Forb	X
	Input bloom period ->			0.032				I	Ī	Г		
3		Astragalus canadensis	0.010		7	\$120	5.7	6.1	0.2%	\$1	Perennial Forb, Legume	
	Input bloom period ->	Mid		0.057								
4	Partridge Pea	Chamaecrista fasciculata	0.15		1	\$25	1.1	30.7	0.6%	\$4	Annual Forb, Legume	
	Input bloom period ->	Late		0.17								
5	Coreopsis, Lanceleaf Tickseed	Coreopsis lanceolata	0.10		5	\$1,280	7.3	4.8	2.4%	\$128	Perennial Forb	X
	Input bloom period ->	Mid		0.73								
6	Prairie Clover, White	Dalea candida	0.030		9	\$90	7.0	5.0	0.7%	\$3	Perennial Forb, Legume	X
	Input bloom period ->	Mid		0.21				•				
7	Prairie Clover, Purple	Dalea purpurea	0.15		8	\$45	6.2	5.6	3.1%	\$7	Perennial Forb, Legume	X
	Input bloom period ->			0.94								
8	Bundleflower, Illinois	Desmanthus illinoensis	0.10		4	\$45	1.4	25.1	0.5%	\$5	Perennial Forb, Legume	
	Input bloom period ->		511.6	0.14	·	4 .0			0.070	, , , ,		
9	Coneflower, Eastern Purple	Echinacea purpurea	0.15		6	\$45	2.4	14.4	1.2%	\$7	Perennial Forb	Х
_	Input bloom period ->			0.36	,	7.13						
10	Alumroot	Heuchera richardsonii	0.0020		8	\$900	252.5	0.1	1.7%	\$2	Perennial Forb	
10	Input bloom period ->		0.0020	0.51	۰	ψ900	202.0	0.1	1.770	μ ΨΖ	l eleman orb	
44		Monarda fistulosa	0.040	0.01	4	\$150	27.5	1.3	3.6%	\$6	Perennial Forb	X
"	Bergamot, Wild Input bloom period ->		0.040	1.10	4	\$150	27.5	1.3	3.0%	\$0	Perenniai Forb	^
			2015	1.10		A. 5 0	47.0		0.404	1 00		
12	Beardtongue, Foxglove Input bloom period ->	Penstemon digitalis	0.015	0.70	4	\$150	47.8	0.7	2.4%	\$2	Perennial Forb	
		,		0.72				ı	г			
13	•	Potentilla arguta	0.010		10	\$120	84.5	0.4	2.8%	\$1	Perennial Forb	
	Input bloom period ->			0.84				ı		1		
14	•	Pycnanthemum tenuifolium	0.0030		4	\$450	138.8	0.3	1.4%	\$1	Perennial Forb	X
	Input bloom period ->	Late		0.42					l e	T		
15	Coneflower, Pinnate Prairie (Gray-heade	Ratibida pinnata	0.020		4	\$60	14.3	2.4	0.9%	\$1	Perennial Forb	
	Input bloom period ->	Mid		0.29								
16	Susan, Black-eyed	Rudbeckia hirta	0.063		2	\$45	34.4	1.0	7.1%	\$3	Biennial Forb	X
	Input bloom period ->			2.17								
17	Goldenrod, Gray (Field)	Solidago nemoralis	0.0030		3	\$600	110.2	0.3	1.1%	\$2	Perennial Forb	Х
••	Input bloom period ->		3.3000	0.33		+		5.5	,	<u> </u>		
1Ω	Aster, Calico	Symphyotrichum lateriflorum	0.0040		2	\$600	91.8	0.4	1.2%	\$2	Perennial Forb	Х
10	Input bloom period ->		J.0070	0.37		ΨΟΟΟ	31.0	0.7	1.4/0	Ι ΨΖ	I GIGITIALI OID	^
40			0.0050	0.07	4	¢200	24.2	4.4	0.4%	60	Poronnial Forb	V
19		Symphyotrichum novae-angliae	0.0050	0.12	4	\$300	24.2	1.4	0.4%	\$2	Perennial Forb	X
	Input bloom period ->			0.12		A	16.5					.,
20		Verbena stricta	0.030	0.07	2	\$75	12.3	2.9	1.2%	\$2	Perennial Forb	X
	Input bloom period ->			0.37				ı		I		
21		Zizia aurea	0.070		6	\$120	4.4	7.9	1.0%	\$8	Perennial Forb	
	Input bloom period ->	Early		0.31				1				
22										\$0.00		
	Input bloom period ->											

24	Input bloom period ->									\$0.00	
	Input bloom period ->							,		,	
25										\$0.00	
- [Input bloom period ->										
26										\$0.00	
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1	Input bloom period ->								<u> </u>		
40										\$0.00	
	Input bloom period ->										
	FORDS// FOUNTS TOTAL	Species Richness		seeds / ft ² PLS			TIMATED FORE	00T (6/4 0) 0		0400	
L	FORBS/LEGUMES TOTAL	21	1.01	10.23	4.7	ES	TIMATED FORB C	OST (\$/AC)BC	UST (\$/AC)	\$196	

	CHOOSE YOUR VINE OR Sub-Sh	rub PLANT SPECIES										
	Common Name	Scientific Name	Lbs / acre PLS	Seeds / ft2 PLS	Coefficient of	Estimated	# Seeds / ft ²	Pure Stand PLS Rate		Estimated		
		Flowering Period	Equivalent	rate below	Conservatism	Cost (\$/lb)	@ 1 oz. / ac	lbs / ac	% of Mix	Cost (\$/ac)	Functional Group	Monarch Preferred
1										\$0.00		
	Input bloom period ->											
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							
	VINE & WOODY PLANT TOTAL	0	0.00	0.00	0.0	ESTIMATED	VINE & WOODY	COST (\$/AC)	COST (\$/AC)	\$0		

	lbs / acre	seeds / ft ²	Average	Species	Floristic	ESTIMATED GRAND
	PLS	PLS	CC	Richness	Quality Index	TOTAL COST (\$/AC)
GRAND TOTAL	3.49	30.4	4.8	26	24.5	\$237

Illinois NRCS 420 Wildlife Habitat Planting Implementation 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	10.2	Meets Criteria						
Total Seeds/ft ² , Minimum	20.0	30.4	Meets Criteria						
Requirements for s	ites on >=	=5% slope							
Grass Seeds/ft ² , Minimum	20.0	20.1	Meets Criteria						
Forb & Sub-shrub Seeds/ft ² , Minimum	5.0	10.2	Meets Criteria						
Total Seeds/ft ² , Minimum	30.0	30.4	Meets Criteria						
Wildlife Special Purposes Escape	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 420 Wildlife Habitat Planting 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	10.2	Meets Criteria						
Total Seeds/ft ² , minimum	10.0	30.4	Meets Criteria						
Forb Only Intersee	ding on < 5% s	оре							
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria						
Grass and Forb Inters	eeding on >= 5°	% slope							
Grass Seeds/ft2, Minimum	10	20.1	Meets Criteria						
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria						
Total Seeds/ft ² , Minimum	15	30.4	Meets Criteria						
Forb Only Interseeding on >= 5% slope									
Forb & Sub-shrub Seeds/ft ² , Minimum	2.5	10.2	Meets Criteria						

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Illinois NRCS 420 Wildlife Habitat Planting: Pollinator and Monarch Full Seeding Requirements								
Requirement	Criteria	Mix	Criteria Met					
All mixes								
Spring Blooming Forbs & Shrubs, Minimum	3	3	Meets Criteria					
Summer Blooming Forbs & Shrubs, Minimum	3	5	Meets Criteria					
Fall Blooming Forbs & Shrubs, Minimum	3	5	Meets Criteria					
Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass)	Absent	Absent	Meets Criteria					
Requirements for sites on < 5% slope								
Grass Seeds/ft ² , Maximum	5	20.1	Does Not Meet Criteria					
Forb & Sub-shrub Seeds/ft ² , Minimum	15	10.2	Does Not Meet Criteria					
Total Seeds/ft ² , Minimum	20	30.4	Meets Criteria					
Requirements for sites on >=5% s	lope							
Grass Seeds/ft ² , Minimum	10	20.1	Meets Criteria					
Forb & Sub-shrub Seeds/ft ² , Minimum	30	10.2	Does Not Meet Criteria					
Total Seeds/ft ² , Minimum	40	30.4	Does Not Meet Criteria					
Additional Requirement for Monarch Plantings								
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.3%	Does Not Meet Criteria					
Monarch preferred Forbs % PLS seeds/ft ² , Minimum	60.0%	70.4%	Meets Criteria					

Illinois NRCS 420 Wildlife Habitat Plantingr: Pollinator and Monarch <u>Interseeding</u> ½ Rate			
Requirement	Criteria	Mix	Criteria Met
All mixes			
Spring Blooming Forbs & Shrubs, Minimum	3	3.0	Meets Criteria
Summer Blooming Forbs & Shrubs, Minimum	3	7.0	Meets Criteria
Fall Blooming Forbs & Shrubs, Minimum	3		Meets Criteria
Tall Grass Species in the Mix (Big Bluestem, Indiangrass, or Switchgrass)	Absent	Absent	Meets Criteria
Grass and Forb Interseeding on < 5% slope			
Grass Seeds/ft ² , Maximum	2.5	20.1	Does Not Meet Criteria
Forb & Sub-shrub Seeds/ft2, Minimum	7.5	10.2	Meets Criteria
Total Seeds/ft ² , Minimum	10.0	30.4	Meets Criteria
Grass and Forb Interseeding on >= 5% slope			
Grass Seeds/ft ² , Minimum	5	20.1	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	10.2	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	20.0	30.4	Meets Criteria
Additional Requirement for Monarch Plantings			
Milkweed % PLS seeds/ft ² , Minimum	1.5%	0.3%	Does Not Meet Criteria
Monarch preferred Forbs % PLS seeds/ft ² , Min	60.0%	70.4%	Meets Criteria
Forb Only Interseeding on < 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	7.5	10.2	Meets Criteria
Forb Only Interseeding on >= 5% slope			
Forb & Sub-shrub Seeds/ft ² , Minimum	15.0	10.2	Does Not Meet Criteria

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