



NOTE: Minimum Criteria is required for all plantings with Wildlife as a Primary Resource Concern. Additional Requirements are situationally Required, depending on the resource concern, or site conditions being addressed. Considerations are encouraged, but not required.

Version: 2021.1.0

Select Program Year		2021
L1	Name	IN N (Muck) Monarch 2022
L2	Farm	Pheasants Forever
L3	Tract	
L4	Fields	
Version: 2021.1.0		
Seeding Mix		
		Ounces Per Acre (PLS)
	Common Name	Scientific Name
G1	Rush, Common	<i>Juncus effusus</i> 0.240
G2	Bulrush, Green	<i>Scirpus atrovirens</i> 0.480
G3	Woolgrass	<i>Scirpus cyperinus</i> 0.080
G4	Sedge, Fox	<i>Carex vulpinoidea</i> 1.600
G5	Fowl Mannagrass	<i>Glyceria striata</i> 1.360
G6		
G7		
G8		
G9		
G10		
F1	Monkey Flower	<i>Mimulus ringens</i> 0.048
F2	Vervain, Blue	<i>Verbena hastata</i> 1.600
F3	Beardtongue, Foxglove	<i>Penstemon digitalis</i> 0.800
F4	Sneezeweed	<i>Helenium autumnale</i> 0.880
F5	White Doll's Daisy	<i>Boltonia asteroides</i> 0.800
F6	Boneset	<i>Eupatorium perfoliatum</i> 0.560
F7	Mountain Mint, Common	<i>Pycnanthemum virginianum</i> 0.320
F8	Black-eyed Susan, Sweet	<i>Rudbeckia subtomentosa</i> 0.720
F9	Ironweed, Tall	<i>Vernonia gigantea</i> 0.640
F10	Aster, Flat-top	<i>Doellingeria umbellata</i> 0.320
F11	Joe-Pye Weed, Spotted	<i>Eutrochium maculatum</i> 0.160
F12	Golden Alexander's	<i>Zizia aurea</i> 0.640
F13	Aster, New England	<i>Symphyotrichum novae-angliae</i> 0.160
F14	Goldenrod, Riddell's	<i>Oligoneuron riddellii</i> 0.080
F15	Wild Senna	<i>Senna hebecarpa</i> 3.280
F16	Milkweed, Swamp	<i>Asclepias incarnata</i> 5.600
F17		
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Practice Design Check Sheet				
Practice General Criteria				
420 Wildlife Habitat Planting General Wildlife				
Requirement	Criteria	Mix or Component	Criteria Met	
Minimum Criteria (Required) For All New Plantings				
Required for New Plantings	Percentage Graminoids (seeds per sq. ft)	25-65%	49.2% <i>Meets Criteria</i>	
	Percentage Forbs (seeds per sq. ft)	35-75%	50.8% <i>Meets Criteria</i>	
	Total Seeds/ft ² , Minimum	20-40+	41.0 <i>Meets Criteria</i>	
	Total Graminoid Species	≥ 2	5 <i>Meets Criteria</i>	
	Total Forb Species	≥ 5	16 <i>Meets Criteria</i>	
	Total Perennial Legume	≥ 1	1 <i>Meets Criteria</i>	
	No Species Errors	0	0 <i>Meets Criteria</i>	
	Seeding Meets Practice Criteria (All Criteria = Meets Criteria)	7.00	7 <i>Meets Criteria</i>	
	Minimum Criteria (Required) For Interseeding Forbs Only Plantings			
	Total Seeds/ft ² , Minimum	10-20+	20.8 <i>See New Planting Criteria</i>	
	Total Forb Species	≥ 5	16 <i>See New Planting Criteria</i>	
	Total Perennial Legume	≥ 1	1 <i>See New Planting Criteria</i>	
	No Species Errors	0%	0 <i>See New Planting Criteria</i>	
Seeding Meets Practice Criteria (All Criteria = Meets Criteria)	4.00	0 <i>See New Planting Criteria</i>		
Considerations (encouraged, not required)				
Maximum Percentage Single Forb Species, (of Forb Component)	≤ 20%	16% <i>Meets Consideration</i>		
Maximum Percentage Annual and Biennial Forbs, (of Forb Component)	≤ 33%	0.0% <i>Meets Consideration</i>		
Big Bluestem Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Meets Consideration</i>		
Switchgrass Seeds/ft ² , Maximum % of Graminoids	≤ 10%	0.0% <i>Meets Consideration</i>		
Indiangrass Seeds/ft ² , Maximum % of Graminoids	≤ 10%	0.0% <i>Meets Consideration</i>		
Prairie Cordgrass Seeds/ft ² , Maximum % of Graminoids	≤ 10%	0.0% <i>Meets Consideration</i>		
Total Tallgrass Seeds/ft ² , Maximum % Graminoids	≤ 25%	0% <i>Meets Consideration</i>		
Additional Criteria for Muck Plantings				
Required	Total Graminoid seeds per square foot	>20	20.18 <i>Meets Criteria</i>	
Additional requirements for General Pollinator Habitat				
Required for Monarch Plantings	Diverse mix of 9 or more forb species (number)	>9	16 <i>Meets Criteria</i>	
	% Grass Species, (of Total Mix)	25-50%	49.2% <i>Only A Consideration For Muck</i>	
	% Forb Species, (of Total Mix)	50-75%	50.8% <i>Only A Consideration For Muck</i>	
	Number Early Blooming Forbs	≥3	5 <i>Meets Criteria</i>	
	Number Mid-Blooming Forbs	≥3	14 <i>Meets Criteria</i>	
	Number Late-Blooming Forbs	≥3	14 <i>Meets Criteria</i>	
	Big Bluestem Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Only A Consideration For Muck</i>	
	Switchgrass Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Only A Consideration For Muck</i>	
	Indiangrass Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Only A Consideration For Muck</i>	
	Prairie Cordgrass Seeds/ft ² , Maximum % of Graminoids	≤ 10%	0.0% <i>Only A Consideration For Muck</i>	
Total Tallgrass Seeds/ft ² , Maximum % Graminoids	< 25%	0.0% <i>Only A Consideration For Muck</i>		
Additional requirements for Monarch Habitat				
Require d for Monarch Plantings	Milkweed Percentage of Mix	> 1.5%	1.50% <i>Meets Criteria</i>	
	Percentage of Forbs High or Very High Monarch Value	> 60%	62.5% <i>Meets Criteria</i>	



Natural Resources Conservation Service

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Version: 2021.1.0

Select Program Year		2021
L1	Name	IN N (Muck) Monarch 2022
L2	Farm	Pheasants Forever
L3	Tract	
L4	Fields	
Version: 2021.1.0		
Seeding Mix		
		Ounces Per Acre (PLS)
	Common Name	Scientific Name
G1	Rush, Common	<i>Juncus effusus</i> 0.240
G2	Bulrush, Green	<i>Scirpus atrovirens</i> 0.480
G3	Woolgrass	<i>Scirpus cyperinus</i> 0.080
G4	Sedge, Fox	<i>Carex vulpinoidea</i> 1.600
G5	Fowl Mannagrass	<i>Glyceria striata</i> 1.360
G6		
G7		
G8		
G9		
G10		
F1	Monkey Flower	<i>Mimulus ringens</i> 0.048
F2	Vervain, Blue	<i>Verbena hastata</i> 1.600
F3	Beardtongue, Foxglove	<i>Penstemon digitalis</i> 0.800
F4	Sneezeweed	<i>Helenium autumnale</i> 0.880
F5	White Doll's Daisy	<i>Boltonia asteroides</i> 0.800
F6	Boneset	<i>Eupatorium perfoliatum</i> 0.560
F7	Mountain Mint, Common	<i>Pycnanthemum virginianum</i> 0.320
F8	Black-eyed Susan, Sweet	<i>Rudbeckia subtomentosa</i> 0.720
F9	Ironweed, Tall	<i>Vernonia gigantea</i> 0.640
F10	Aster, Flat-top	<i>Doellingeria umbellata</i> 0.320
F11	Joe-Pye Weed, Spotted	<i>Eutrochium maculatum</i> 0.160
F12	Golden Alexander's	<i>Zizia aurea</i> 0.640
F13	Aster, New England	<i>Symphyotrichum novae-angliae</i> 0.160
F14	Goldenrod, Riddell's	<i>Oligoneuron riddellii</i> 0.080
F15	Wild Senna	<i>Senna hebecarpa</i> 3.280
F16	Milkweed, Swamp	<i>Asclepias incarnata</i> 5.600
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Practice Design Check Sheet			
Program Specific Criteria			
CRP Practices Additional Criteria New Plantings (In addition to GENERAL CRITERIA)			
Requirement	Criteria	Mix or Component	Criteria Met
Additional requirements for CP42 CRP Pollinators			
Meets pollinator general criteria (# Criteria met)	11	11	Meets Criteria
% Grass Species, (of Total Mix)	25-50%	49.2%	Meets Criteria
Additional Requirements for SAFE 38E Northern Bobwhite, Henslow's Sparrow, and Ring-necked Pheasant			
Mix meets 50 point requirements for EBI N1A CP2	TRUE	TRUE	Meets Criteria
Mix meets 50 point requirements for EBI N1A CP4D	TRUE	TRUE	Meets Criteria
Additional Requirements for SAFE 38E Henslow Sparrow Plantings			
Diverse mix of 9 or more forb species (number)	>9	16.00	Meets Criteria
Number Early Blooming Forbs	>3	5.00	Meets Criteria
Number Mid-Blooming Forbs	>3	14.00	Meets Criteria
Number Late-Blooming Forbs	>3	14.00	Meets Criteria
Review Forb List for inclusion perching locations	> 2	Check Forb List	Verify At Least 2 Present*
Additional Requirements for SAFE 38E Northern Bobwhite AND CP33 Field Border for Northern Bobwhite			
Big Bluestem Seeds/ft2, Maximum % of Graminoids	≤ 5%	0.0%	Meets Criteria
Switchgrass Seeds/ft2, Maximum % of Graminoids	≤ 5%	0.0%	Meets Criteria
Indiangrass Seeds/ft2, Maximum % of Graminoids	≤ 5%	0.0%	Meets Criteria
Prairie Cordgrass Seeds/ft2, Maximum % of Graminoids	≤ 5%	0.0%	Meets Criteria
Total Tallgrass Seeds/ft2, Maximum % Graminoids	<15%	0.0%	Meets Criteria
Additional Requirements for CP25 Tallgrass Prairie			
Diverse mix of 10 or more forb species (number)	≥10	16.00	Meets Criteria
Number Early Blooming Forbs	>3	5.00	Meets Criteria
Number Mid-Blooming Forbs	>3	14.00	Meets Criteria
Number Late-Blooming Forbs	>3	14.00	Meets Criteria
Total Tallgrass Seeds/ft2, Maximum % Graminoids	≥15%	0.0%	Does Not Meet Criteria
Additional Requirements for CP25 Short-Stature Prairie			
Diverse mix of 10 or more forb species (number)	≥10	16.00	Meets Criteria
Number Early Blooming Forbs	>3	5.00	Meets Criteria
Number Mid-Blooming Forbs	>3	14.00	Meets Criteria
Number Late-Blooming Forbs	>3	14.00	Meets Criteria
Total Tallgrass Seeds/ft2, Maximum % Graminoids	0%	0.0%	Meets Criteria
Additional Requirements for CP43 Prairie Strips			
% Grass Species, (of Total Mix)	40-60%	49.2%	Meets Criteria
Diverse mix of 10 or more forb species (number)	>10	16.00	Meets Criteria
Number Early Blooming Forbs	>3	5.00	Meets Criteria
Number Mid-Blooming Forbs	>3	14.00	Meets Criteria
Number Late-Blooming Forbs	>3	14.00	Meets Criteria
Total Tallgrass Seeds/ft2, Maximum % Graminoids	< 15%	0.0%	Meets Criteria

Note: EQIP and WRE Criteria moved to third column/page. CSP moved to the forth column/page
 *Use lists on CRP Specification Sheets, or input from wildlife biologists to meet this criteria.



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L1	Name	IN N (Muck) Monarch 2022
L2	Farm	Pheasants Forever
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Version: 2021.1.0		
Seeding Mix		
	Common Name	Scientific Name
		Ounces Per Acre (PLS)
G1	Rush, Common	<i>Juncus effusus</i> 0.240
G2	Bulrush, Green	<i>Scirpus atrovirens</i> 0.480
G3	Woolgrass	<i>Scirpus cyperinus</i> 0.080
G4	Sedge, Fox	<i>Carex vulpinoidea</i> 1.600
G5	Fowl Mannagrass	<i>Glyceria striata</i> 1.360
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F1	Monkey Flower	<i>Mimulus ringens</i> 0.048
F2	Vervain, Blue	<i>Verbena hastata</i> 1.600
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Practice Design Check Sheet			
Program Specific Criteria		Program Year	
		2021	
420 Wildlife Habitat Planting EQIP Practices Additional Criteria (In addition to GENERAL CRITERIA)			
Requirement	Criteria	Mix or Component	Criteria Met
Native Species			
Total Forb Species Minimum	5	16.00	Meets Criteria
Total Seeds/ft ² , Minimum	20	41.02	Meets Criteria
Pollinator Species			
Total Forb Species Minimum	9	16.00	Meets Criteria
Total Seeds/ft ² , Minimum	25	41.02	Meets Criteria
Specialized Habitat			
Total Forb Species Minimum	15	16	Meets Criteria
Total Seeds/ft ² , Minimum	30	41.0	Meets Criteria
Specialized Habitat (Monarch)			
Total Forb Species Minimum	SEE MONARCH	2	Meets Criteria
Total Seeds/ft ² , Minimum	30	41.0	Meets Criteria
Interseeding (Pollinator)			
Total Forb Species Minimum	9	16	Meets Criteria
Total Seeds/ft ² , Minimum	15	20.8	Meets Criteria

420 Wildlife Habitat Planting Check- ACEP- WRE Practices Additional Criteria New Planting			
Requirement	Criteria	Mix or Component	Criteria Met
Graminoid Seeds/ft ² , Percent of Mix Range	40-60%	49.2%	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Percent of Mix Rang	40-60%	50.8%	Meets Criteria
Total Seeds/ft ² , Minimum	30-40+	41.02	Meets Criteria
Total Forb Species	≥ 9	16	Meets Criteria
Number Early Blooming Forbs	≥ 3	5	Meets Criteria
Number Mid-Blooming Forbs	≥ 3	14	Meets Criteria
Number Late-Blooming Forbs	≥ 3	14	Meets Criteria
Milkweed Species	≥ 1	1	Meets Criteria



Natural Resources Conservation Service

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L1	Name	IN N (Muck) Monarch 2022
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Practice Design Check Sheet			
Program Specific Criteria	Program Year	2021	
420 Wildlife Habitat Planting CSP Practices Additional Criteria (In addition to GENERAL CRITERIA)			
Requirement	Criteria	Mix or Component	Criteria Met
E420A (E327A)			
Total Forb Species Minimum	9	16.00	Meets Criteria
Total Seeds/ft ² , Minimum	15	41.02	Meets Criteria
E420B (E327B)			
Total Forb Species Minimum	9	16.00	Meets Criteria
Total Seeds/ft ² , Minimum	15	41.02	Meets Criteria
E420B only- Monarch Requirements	SEE MONARCH	2.0	Meets Criteria
Native Species +E420A/B (E327A)			
Total Forb Species Minimum	14	16	Meets Criteria
Total Seeds/ft ² , Minimum	30	41.0	Meets Criteria
Pollinator Species+E420A/B			
Total Forb Species Minimum	16	16	Meets Criteria
Total Seeds/ft ² , Minimum	30	41.0	Meets Criteria
Specialized Habitat+E420A/B			
Total Forb Species Minimum	24	16	Does Not Meet Criteria
Total Seeds/ft ² , Minimum	30	41.0	Meets Criteria