



Natural Resources Conservation Service

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 E M-WM 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> 0.160
G2	Sedge, Fox	<i>Carex vulpinoidea</i> 1.440
G3	Fowl Mannagrass	<i>Glyceria striata</i> 1.600
G4	Bluejoint	<i>Calamagrostis canadensis</i> 0.480
G5	Wildrye, Virginia	<i>Elymus virginicus</i> 20.000
G6		
G7		
G8		
G9		
G10		
F1	Black-eyed Susan	<i>Rudbeckia hirta</i> 0.800
F2	Common Evening Primrose	<i>Oenothera biennis</i> 0.800
F3	Vervain, Blue	<i>Verbena hastata</i> 0.800
F4	Mountain Mint, Slender	<i>Pycnanthemum tenuifolium</i> 0.080
F5	Bergamot, Wild	<i>Monarda fistulosa</i> 0.800
F6	Lobelia, Great	<i>Lobelia siphilitica</i> 0.080
F7	Beardtongue, Foxglove	<i>Penstemon digitalis</i> 0.480
F8	Aster, Frost	<i>Symphyotrichum pilosum</i> 0.320
F9	Sunflower, Maximilian's	<i>Helianthus maximiliani</i> 2.000
F10	Brown-eyed Susan	<i>Rudbeckia triloba</i> 0.640
F11	Milkvetch, Canadian	<i>Astragalus canadensis</i> 2.000
F12	Mistflower, Blue	<i>Conoclinium coelestinum</i> 0.080
F13	Aster, Calico	<i>Symphyotrichum lateriflorum</i> 0.080
F14	Mountain Mint, Common	<i>Pycnanthemum virginianum</i> 0.080
F15	Goldenrod, Stiff	<i>Oligoneuron rigidum</i> 0.160
F16	Coneflower, Purple	<i>Echinacea purpurea</i> 2.000
F17	Black-eyed Susan, Sweet	<i>Rudbeckia subtomentosa</i> 0.320
F18	Ironweed, Tall	<i>Vernonia gigantea</i> 0.320
F19	Aster, Flat-top	<i>Doellingeria umbellata</i> 0.160
F20	Golden Alexander's	<i>Zizia aurea</i> 0.8
F21	Aster, New England	<i>Symphyotrichum novae-angliae</i> 0.16
F22	Sunflower, False	<i>Helopsis helianthoides</i> 1.04
F23	Joe Pye Weed, Sweetcenter	<i>Eutrochium purpureum</i> 0.16
F24	Blazing Star, Marsh	<i>Liatris spicata</i> 0.32
F25	Milkweed, Common	<i>Asclepias syriaca</i> 2.8
F26	Milkweed, Swamp	<i>Asclepias incarnata</i> 2
F27		
F28		
F29		
F30		

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%	48.4% <i>Meets Criteria</i>	
	Percentage Forbs (seeds per sq. ft)	35-75%	51.6% <i>Meets Criteria</i>	
	Total Seeds/ft ² , Minimum	20-40+	31.6 <i>Meets Criteria</i>	
	Total Graminoid Species	≥ 2	5 <i>Meets Criteria</i>	
	Total Forb Species	≥ 5	26 <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+	16.3 <i>See New Planting Criteria</i>	
Total Forb Species	≥ 5	26 <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%	10% <i>Meets Consideration</i>		
Maximum Percentage Annual and Biennial Forbs, (of Forb Component)	≤ 33%	23.5% <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				
Total Graminoid seeds per square foot	>20	15.30	Not applicable	
Additional requirements for General Pollinator Habitat				
Required for Monarch Plantings	Diverse mix of 9 or more forb species (number)	>9	26 <i>Meets Criteria</i>	
	% Grass Species, (of Total Mix)	25-50%	48.4% <i>Meets Criteria</i>	
	% Forb Species, (of Total Mix)	50-75%	51.6% <i>Meets Criteria</i>	
	Number Early Blooming Forbs	≥ 3	9 <i>Meets Criteria</i>	
	Number Mid-Blooming Forbs	≥ 3	25 <i>Meets Criteria</i>	
	Number Late-Blooming Forbs	≥ 3	24 <i>Meets Criteria</i>	
	Big Bluestem Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Meets Criteria</i>	
	Switchgrass Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Meets Criteria</i>	
	Indiangrass Seeds/ft ² , Maximum % of Graminoids	< 10%	0.0% <i>Meets Criteria</i>	
	Prairie Cordgrass Seeds/ft ² , Maximum % of Graminoids	≤ 10%	0.0% <i>Meets Criteria</i>	
Total Tallgrass Seeds/ft ² , Maximum % Graminoids	< 25%	0.0% <i>Meets Criteria</i>		
Additional requirements for Monarch Habitat				
Milkweed Percentage of Mix	> 1.5%	1.51%	<i>Meets Criteria</i>	
Percentage of Forbs High or Very High Monarch Value	> 60%	75.1%	<i>Meets Criteria</i>	



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Individual programs, or practices within programs may have other required criteria. This Criteria may change through out the year and should be verified by the planner, at the time of planning, that no updates have been issued.

Version: 2021.1.0

Select Program Year		2021
L1	Name	IN E M-WM 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> 0.160
G2	Sedge, Fox	<i>Carex vulpinoidea</i> 1.440
G3	Fowl Mannagrass	<i>Glyceria striata</i> 1.600
G4	Bluejoint	<i>Calamagrostis canadensis</i> 0.480
G5	Wildrye, Virginia	<i>Elymus virginicus</i> 20.000
G6		
G7		
G8		
G9		
G10		
F1	Black-eyed Susan	<i>Rudbeckia hirta</i> 0.800
F2	Common Evening Primrose	<i>Oenothera biennis</i> 0.800
F3	Vervain, Blue	<i>Verbena hastata</i> 0.800
F4	Mountain Mint, Slender	<i>Pycnanthemum tenuifolium</i> 0.080
F5	Bergamot, Wild	<i>Monarda fistulosa</i> 0.800
F6	Lobelia, Great	<i>Lobelia siphilitica</i> 0.080
F7	Beardtongue, Foxglove	<i>Penstemon digitalis</i> 0.480
F8	Aster, Frost	<i>Symphyotrichum pilosum</i> 0.320
F9	Sunflower, Maximilian's	<i>Helianthus maximiliani</i> 2.000
F10	Brown-eyed Susan	<i>Rudbeckia triloba</i> 0.640
F11	Milkvetch, Canadian	<i>Astragalus canadensis</i> 2.000
F12	Mistflower, Blue	<i>Conoclinium coelestinum</i> 0.080
F13	Aster, Calico	<i>Symphyotrichum lateriflorum</i> 0.080
F14	Mountain Mint, Common	<i>Pycnanthemum virginianum</i> 0.080
F15	Goldenrod, Stiff	<i>Oligoneuron rigidum</i> 0.160
F16	Coneflower, Purple	<i>Echinacea purpurea</i> 2.000
F17	Black-eyed Susan, Sweet	<i>Rudbeckia subtomentosa</i> 0.320
F18	Ironweed, Tall	<i>Vernonia gigantea</i> 0.320
F19	Aster, Flat-top	<i>Doellingeria umbellata</i> 0.160
F20	Golden Alexander's	<i>Zizia aurea</i> 0.8
F21	Aster, New England	<i>Symphyotrichum novae-angliae</i> 0.16
F22	Sunflower, False	<i>Helopsis helianthoides</i> 1.04
F23	Joe Pye Weed, Sweetcenter	<i>Eutrochium purpureum</i> 0.16
F24	Blazing Star, Marsh	<i>Liatris spicata</i> 0.32
F25	Milkweed, Common	<i>Asclepias syriaca</i> 2.8
F26	Milkweed, Swamp	<i>Asclepias incarnata</i> 2
F27		
F28		
F29		
F30		

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%	48.4%	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	26.00	Meets Criteria
Number Early Blooming Forbs	>3	9.00	Meets Criteria
Number Mid-Blooming Forbs	>3	25.00	Meets Criteria
Number Late-Blooming Forbs	>3	24.00	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	26.00	Meets Criteria
Number Early Blooming Forbs	≥3	9.00	Meets Criteria
Number Mid-Blooming Forbs	≥3	25.00	Meets Criteria
Number Late-Blooming Forbs	≥3	24.00	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	26.00	Meets Criteria
Number Early Blooming Forbs	≥3	9.00	Meets Criteria
Number Mid-Blooming Forbs	≥3	25.00	Meets Criteria
Number Late-Blooming Forbs	≥3	24.00	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%	48.4%	Meets Criteria
Diverse mix of 10 or more forb species (number)	>10	26.00	Meets Criteria
Number Early Blooming Forbs	>3	9.00	Meets Criteria
Number Mid-Blooming Forbs	>3	25.00	Meets Criteria
Number Late-Blooming Forbs	≥3	24.00	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 E M-WM Monarch 2022
L2	Farm	Pheasants Forever
L3	Tract	
L4	Fields	
Version: 2021.1.0 Seeding Mix		
	Common Name	Scientific Name
		Ounces Per Acre (PLS)
G1	Rush, Common	<i>Juncus effusus</i> 0.160
G2	Sedge, Fox	<i>Carex vulpinoidea</i> 1.440
G3	Fowl Mannagrass	<i>Glyceria striata</i> 1.600
G4	Bluejoint	<i>Calamagrostis canadensis</i> 0.480
G5	Wildrye, Virginia	<i>Elymus virginicus</i> 20.000
G6		
G7		
G8		
G9		
G10		
F1	Black-eyed Susan	<i>Rudbeckia hirta</i> 0.800
F2	Common Evening Primrose	<i>Oenothera biennis</i> 0.800
F3	Vervain, Blue	<i>Verbena hastata</i> 0.800
F4	Mountain Mint, Slender	<i>Pycnanthemum tenuifolium</i> 0.080
F5	Bergamot, Wild	<i>Monarda fistulosa</i> 0.800
F6	Lobelia, Great	<i>Lobelia siphilitica</i> 0.080
F7	Beardtongue, Foxglove	<i>Penstemon digitalis</i> 0.480
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F12	Mistflower, Blue	<i>Conoclinium coelestinum</i> 0.080
F13	Aster, Calico	<i>Symphotrichum lateriflorum</i> 0.080
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F15	Goldenrod, Stiff	<i>Oligoneuron rigidum</i> 0.160
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F18	Ironweed, Tall	<i>Vernonia gigantea</i> 0.320
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F20	Golden Alexander's	<i>Zizia aurea</i> 0.8
F21	Aster, New England	<i>Symphotrichum novae-angliae</i> 0.16
F22	Sunflower, False	<i>Helioopsis helianthoides</i> 1.04
F23	Joe Pye Weed, Sweet-scented	<i>Eutrochium purpureum</i> 0.16
F24	Blazing Star, Marsh	<i>Liatris spicata</i> 0.32
F25	Milkweed, Common	<i>Asclepias syriaca</i> 2.8
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F27		
F28		
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F30		

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	26.00	Meets Criteria
Total Seeds/ft ² , Minimum	20	31.62	Meets Criteria
Pollinator Species			
Total Forb Species Minimum	9	26.00	Meets Criteria
Total Seeds/ft ² , Minimum	25	31.62	Meets Criteria
Specialized Habitat			
Total Forb Species Minimum	15	26	Meets Criteria
Total Seeds/ft ² , Minimum	30	31.6	Meets Criteria
Specialized Habitat (Monarch)			
Total Forb Species Minimum	SEE MONARCH	2	Meets Criteria
Total Seeds/ft ² , Minimum	30	31.6	Meets Criteria
Interseeding (Pollinator)			
Total Forb Species Minimum	9	26	Meets Criteria
Total Seeds/ft ² , Minimum	15	16.3	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%	48.4%	Meets Criteria
Forb & Sub-shrub Seeds/ft ² , Percent of Mix Rang	40-60%	51.6%	Meets Criteria
Total Seeds/ft ² , Minimum	30-40+	31.62	Meets Criteria
Total Forb Species	≥ 9	26	Meets Criteria
Number Early Blooming Forbs	≥ 3	9	Meets Criteria
Number Mid-Blooming Forbs	≥ 3	25	Meets Criteria
Number Late-Blooming Forbs	≥ 3	24	Meets Criteria
Milkweed Species	≥ 1	2	Meets Criteria



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F27		
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F30		

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	26.00	Meets Criteria
Total Seeds/ft ² , Minimum	15	31.62	Meets Criteria
E420B (E327B)			
Total Forb Species Minimum	9	26.00	Meets Criteria
Total Seeds/ft ² , Minimum	15	31.62	Meets Criteria
E420B only- Monarch Requirements	SEE MONARCH	2.0	Meets Criteria
Native Species +E420A/B (E327A)			
Total Forb Species Minimum	14	26	Meets Criteria
Total Seeds/ft ² , Minimum	30	31.6	Meets Criteria
Pollinator Species+E420A/B			
Total Forb Species Minimum	16	26	Meets Criteria
Total Seeds/ft ² , Minimum	30	31.6	Meets Criteria
Specialized Habitat+E420A/B			
Total Forb Species Minimum	24	26	Meets Criteria
Total Seeds/ft ² , Minimum	30	31.6	Meets Criteria