

**Job Sheet for Seeding**

Planned by: MO Mix 44 CP33 Date: \_\_\_\_\_ County: \_\_\_\_\_  
 Client: \_\_\_\_\_ Address: \_\_\_\_\_  
 Farm(s): \_\_\_\_\_ Tract(s): \_\_\_\_\_ Fields: \_\_\_\_\_ CIN#: \_\_\_\_\_  
 Acres: 1.00 Program: \_\_\_\_\_  
 Primary / Cost-shared FOTG Practice: Wildlife Habitat Planting (420) Secondary FOTG Practice: \_\_\_\_\_  
 Primary Purpose of Seeding: \_\_\_\_\_  
 Site Soil Group: \_\_\_\_\_ OR Ecological Site: \_\_\_\_\_  
 Additional Information: \_\_\_\_\_

**Seedbed Preparation for Grass and/or Forb/Legume Seeding**

Current Conditions: \_\_\_\_\_  
 Row crop stubble or tilled seed bed (to incorporate amendments, level field, or following construction operations)  
 Killed sod (renovation; for example from introduced cool season grasses to native warm season grasses or from warm season grasses to a pollinator forb only planting)  
 Suppressed existing vegetation, as for an inter-seeding of legumes on pastureland or native forbs on natural communities  
 Slopes that are 4:1 or steeper that will receive a critical area planting (broadcast planting method only)  
 Conditions Desired at Planting:  
 Seed Mix Contains:  Cool Season Grasses (majority)  Warm Season Grasses (majority)  Native Forbs  Native/Introduced Legumes  
 Planting Method: \_\_\_\_\_ Interseeding: No Planting Season: \_\_\_\_\_  
 Acceptable Planting Dates: \_\_\_\_\_ Optimal Planting Dates: \_\_\_\_\_  
 Seedbed Prep: \_\_\_\_\_  
 Seed Placement: \_\_\_\_\_  
 Additional Instructions: \_\_\_\_\_

**Fertilizer and Lime**

**Planned**

Is Fertilizer and/or Lime Needed?  
 Program rules and/or planned practice(s) do not require soil amendments (example - general CRP plantings, wildlife plantings on cropland)  
 Program rules and/or planned practices require soil amendments be applied according to a recent soil test (less than 4 years old and after the most recent application of liming material and/or fertilizer). Apply fertilizer and/or lime according to soil test recommendations as indicated below.  
 Program rules and/or planned practices require soil amendments. Blanket rates will be used for a Critical Area Planting (342) as indicated below because a recent soil test is not available (as for constructed fills and finished grades).

**Soil Test Recommendations**

Salt pH from soil test results: \_\_\_\_\_

	Lime*	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
lbs/ac				
Total Needed	Not req.	0	0	0

Blanket rates for constructed fills when a current soil test is not available:

lbs/ac	#N/A			
Total Needed	#N/A			

What legumes are included in the seed mix?  None  Alfalfa  Cool Season Legumes other than Alfalfa  Warm Season Legumes

When to apply lime: \_\_\_\_\_

When to apply fertilizer: \_\_\_\_\_

No fertilizer will be applied. Soil nutrients are within ranges required for the planned species that will be planted.

Additional Information:

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**Companion Crop Specifications**

A companion crop may be established prior to or at the same time as a permanent seeding of grass, forbs, and/or legumes. The companion crop will be selected and managed to minimize competition with the permanent seeding.

Planned Companion Crop:  None Planned  Redtop  Spring Oats  Winter Wheat      Rate per Acre (lbs): \_\_\_\_\_      Total Bulk Lbs to Seed: \_\_\_\_\_

Additional Information:

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**Applied**

Companion Crop Planted:

Redtop  Spring Oats  Winter Wheat

Bulk Lbs Planted:	<table border="1"><tr><th>Total Lbs</th><th>Lbs/Ac</th></tr><tr><td></td><td>0.0</td></tr></table>	Total Lbs	Lbs/Ac		0.0
Total Lbs	Lbs/Ac				
	0.0				

Seeding Mix Summary												
Acres to be Seeded:		1.00						Broadcast Adjustment Factor:		Interseeding Adjustment Factor: 1		
Practice Adjustment Factor:												
Apply Adjustment Factors to:												
Planned Seed Mix				Seed Mix Purchased and Planted								
Species	Acceptable Cultivar(s)	PLS lbs/ac	Total PLS lbs Needed	Bulk lbs Seeded	% Purity	% Germ	% Dormant/ Hard Seed	PLS lbs Planted	Shortage/ Excess	% of Mix	Cultivar OR Origin for MO Source Identified Class Seed	Meets all Require- ments
Little Bluestem, <i>Schizachyrium scoparium</i>	Aldous (statewide), Camper (north MO), Cimarron (south MO - sandy sites only), Ozark (statewide), Yellow Tag (statewide)	0.900	0.900						-0.900			
Sideoats Grama, <i>Bouteloua curtipendula</i>	Butte (north MO), El Reno (statewide), Trailway (statewide), Yellow Tag (statewide)	0.830	0.830						-0.830			
Black-eyed Susan (B), <i>Rudbeckia hirta</i>		0.030	0.030						-0.030			
Canada Milkvech, <i>Astragalus canadensis</i>		0.075	0.075						-0.075			
Common Evening Primrose (B), <i>Oenothera biennis</i>		0.020	0.020						-0.020			
Common Milkweed, <i>Asclepias syriaca</i>		0.180	0.180						-0.180			
False Sunflower, <i>Helopsis helianthoides</i>		0.140	0.140						-0.140			
Foxglove Beardtongue, <i>Penstemon digitalis</i>		0.015	0.015						-0.015			
Golden Alexanders, <i>Zizia aurea</i>		0.080	0.080						-0.080			
Gray Goldenrod, <i>Solidago nemoralis</i>		0.030	0.030						-0.030			
Illinois Bundleflower, <i>Desmanthus illinoensis</i>	Available: Reno Germplasm (statewide)	0.150	0.150						-0.150			
Lanceleaf Coreopsis, <i>Coreopsis lanceolata</i>		0.157	0.157						-0.157			
Maximilian Sunflower, <i>Helianthus maximiliani</i>		0.010	0.010						-0.010			
Pale Purple Coneflower, <i>Echinacea pallida</i>		0.030	0.030						-0.030			

Partridge Pea (A), <i>Chamaecrista fasciculata</i>	Available: Riley (statewide), Lark Selection (statewide)	0.130	0.130								-0.130			
Prairie Cinquefoil, <i>Drymocallis arguta</i>		0.002	0.002								-0.002			
Purple Coneflower, <i>Echinacea purpurea</i>		0.159	0.159								-0.159			
Purple Prairie Clover, <i>Dalea purpurea</i>	Available: Kaneb (statewide)	0.290	0.290								-0.290			
Rattlesnake Master, <i>Eryngium yuccifolium</i>		0.020	0.020								-0.020			
Showy Ticktrefoil, <i>Desmodium canadense</i>	Available: Alexander Germplasm (statewide)	0.040	0.040								-0.040			
Stiff Goldenrod, <i>Oligoneuron rigidum</i> , <i>Solidago rigida</i>		0.010	0.010								-0.010			
Swamp Milkweed, <i>Asclepias incarnata</i>		0.098	0.098								-0.098			
Sweet Black-eyed Susan, <i>Rudbeckia subtomentosa</i>		0.050	0.050								-0.050			
Upright Prairie Coneflower, <i>Ratibida columnifera</i>		0.008	0.008								-0.008			
White Prairie Clover, <i>Dalea candida</i>		0.097	0.097								-0.097			
Wild Bergamot, <i>Monarda fistulosa</i>		0.050	0.050								-0.050			

Total Planned: 3.601 3.601

Planned Grasses PLS/ft <sup>2</sup> : <u>8.01</u>	Total PLS lbs. Forbs Planted: <u>          </u>
Planned Forbs/Legumes PLS/ft <sup>2</sup> : <u>12.00</u>	Total % of Mix: <u>          </u>
Planned Total PLS/ft <sup>2</sup> : <u>20.01</u>	% of mix of annual/biennial species: <u>          </u>

**Customer and Seed Dealer Please Note:**

Only viable, high quality and adapted seed will be used. All seed shall have a current seed test within 10 months of the planting date that lists germination, purity, and hard seed as a percentage for determining pure live seed and lists the percent of weed seed present that meets State seed quality law standards. Seed test results must be provided to the customer and USDA for confirmation that seed planted meets specifications outlined in this plan. Seed must be clean and relatively free of weed seed and contaminants. Seed that has become wet, moldy, or otherwise damaged in transit or storage is not acceptable. Certified seed is preferred but not required unless Missouri Source Identified Class Seed, or yellow tag, is denoted as being required.

Legume seed shall be inoculated with the proper, viable Rhizobium bacteria species prior to planting according to Missouri Agronomy Technical Note MO-36, "Legume Inoculation." Pre-inoculated seed shall be planted prior to the expiration date on the inoculum tag or be re-inoculated with the appropriate inoculum within 24 hours prior to seeding. Inoculated seed will not be exposed to direct sunlight. Inoculation of legumes may be waived when a current pasture inventory (JS-AGRON-24 or similar inventory) shows that the legume species to be seeded occupies more than 5 percent of the vegetative cover on the site prior to seeding.

For "Acceptable Cultivar(s)," north Missouri (MO) is all counties north of Bates, Henry, Benton, Morgan, Moniteau, Cole, Osage, Gasconade, Franklin, and St. Louis Counties. South Missouri is all counties including and south of those listed. Refer to Native Cultivars or Selections Information Sheet (IS-MO723N) for guidance on selecting the appropriate native grass cultivars to meet objectives. In all cases where a cultivar(s) is/are noted under the Acceptable Cultivar(s) heading above, Missouri Source Identified Class Seed (yellow tag seed) may be used instead of a cultivar variety or selection.

**The following information applies only if "Locally adapted Missouri Source Identified Class Seed (yellow tag) required" is shown under the "Acceptable Cultivar(s)" heading above:** Locally adapted Missouri Source Identified Class Seed, or yellow tag, is defined as a native plant that source genetically originated in Missouri, was not introduced, and existed within the state borders prior to arrival of settlers. All seed from herbaceous material shall comply with Missouri seed laws including Missouri Crop Improvement Association guidance. All seed will comply with AOSCA (Association of Official Seed Certifying Agencies) certification procedures (including appropriate tagging) to include third-party verification by the Missouri Crop Improvement Association of source, genetic identity, and genetic purity of wildland collected or field or nursery grown plant germplasm materials. Seed must be Missouri origin (grown in Missouri) and certified as Missouri Source Identified Class. Source Identified Certification means: parent seed is collected from natural remnant Missouri populations; no selection, testing, or breeding for specific traits; production fields are inspected to verify species, source, and lack of noxious weeds; and seed is certified for purity and germination. If Missouri origin (grown) source identified class seed is not available, Missouri source identified class seed may be obtained from adjoining states.

