



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												
Practice Adjustment Factor:		Broadcast Adjustment Factor:			Interseeding Adjustment Factor:								1	
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 Requirements		
Little Bluestem, <i>Schizachyrium scoparium</i>	Aldous (statewide), Camper (north MO), Cimarron (south MO - sandy sites only), Ozark (statewide), Yellow Tag (statewide)	1.086	1.086						-1.086					
Sideoats Grama, <i>Bouteloua curtipendula</i>	Butte (north MO), El Reno (statewide), Trailway (statewide), Yellow Tag (statewide)	1.094	1.094						-1.094					
Black-eyed Susan (B), <i>Rudbeckia hirta</i>		0.100	0.100						-0.100					
Blue Lobelia, <i>Lobelia siphilitica</i>		0.015	0.015						-0.015					
Blue Vervain, <i>Verbena hastata</i>		0.015	0.015						-0.015					
Canada Milkvetch, <i>Astragalus canadensis</i>		0.110	0.110						-0.110					
Common Evening Primrose (B), <i>Oenothera biennis</i>		0.010	0.010						-0.010					
Common Milkweed, <i>Asclepias syriaca</i>		0.390	0.390						-0.390					
False Sunflower, <i>Heliopsis helianthoides</i>		0.210	0.210						-0.210					
Foxglove Beardtongue, <i>Penstemon digitalis</i>		0.010	0.010						-0.010					
Golden Alexanders, <i>Zizia aurea</i>		0.110	0.110						-0.110					
Gray Goldenrod, <i>Solidago nemoralis</i>		0.075	0.075						-0.075					
Gray-headed Coneflower, <i>Ratibida pinnata</i>	Available: Sunglow (statewide)	0.080	0.080						-0.080					
Illinois Bundleflower, <i>Desmanthus illinoensis</i>	Available: Reno Germplasm (statewide)	0.225	0.225						-0.225					
Lanceleaf Coreopsis, <i>Coreopsis lanceolata</i>		0.300	0.300						-0.300					

Maximilian Sunflower, <i>Helianthus maximiliani</i>		0.010	0.010							-0.010			
Pale Purple Coneflower, <i>Echinacea pallida</i>		0.045	0.045							-0.045			
Prairie Blazing Star, <i>Liatris pycnostachya</i>		0.075	0.075							-0.075			
Prairie Cinquefoil, <i>Drymocallis arguta</i>		0.010	0.010							-0.010			
Purple Coneflower, <i>Echinacea purpurea</i>		0.185	0.185							-0.185			
Purple Prairie Clover, <i>Dalea purpurea</i>	Available: Kaneb (statewide)	0.540	0.540							-0.540			
Rattlesnake Master, <i>Eryngium yuccifolium</i>		0.030	0.030							-0.030			
Roundhead Lespedeza, <i>Lespedeza capitata</i>	Available: Kanoka (statewide)	0.030	0.030							-0.030			
Showy Ticktrefoil, <i>Desmodium canadense</i>	Available: Alexander Germplasm (statewide)	0.060	0.060							-0.060			
Smooth Aster, <i>Symphyotrichum laeve</i>		0.030	0.030							-0.030			
Stiff Goldenrod, <i>Oligoneuron rigidum</i> , <i>Solidago rigida</i>		0.015	0.015							-0.015			
Swamp Milkweed, <i>Asclepias incarnata</i>		0.180	0.180							-0.180			
Sweet Black-eyed Susan, <i>Rudbeckia subtomentosa</i>		0.105	0.105							-0.105			
Upright Prairie Coneflower, <i>Ratibida columnifera</i>		0.093	0.093							-0.093			
White Prairie Clover, <i>Dalea candida</i>		0.225	0.225							-0.225			
Wild Bergamot, <i>Monarda fistulosa</i>		0.125	0.125							-0.125			
Total Planned: 5.588 5.588													
Planned Grasses PLS/ft <sup>2</sup> :		10.00								Total PLS lbs. Forbs Planted:		_____	
Planned Forbs/Legumes PLS/ft <sup>2</sup> :		30.00								Total % of Mix:		_____	
Planned Total PLS/ft <sup>2</sup> :		40.00								% of mix of annual/biennial species:		_____	
<b>Customer and Seed Dealer Please Note:</b>													

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.

