

Additional Information:

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:

Applied

Companion Crop Planted:

Redtop Spring Oats Winter Wheat

Bulk Lbs Planted:

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
Broomsedge (Bluestem), Andropogon virginicus	No cultivars available	0.280	0.280						-0.280			
Little Bluestem, Schizachyrium scoparium	Aldous (statewide), Camper (north MO), Cimarron (south MO - sandy sites only), Ozark (statewide), Yellow Tag (statewide)	1.350	1.350						-1.350			
Splitbeard Bluestem, Andropogon ternarius	No cultivars available	2.500	2.500						-2.500			
Black-eyed Susan (B), Rudbeckia hirta		0.110	0.110						-0.110			
Blue Lobelia, Lobelia siphilitica		0.008	0.008						-0.008			
Canada Milkvech, Astragalus canadensis		0.076	0.076						-0.076			
Common Evening Primrose (B), Oenothera biennis		0.020	0.020						-0.020			
Common Milkweed, Asclepias syriaca		0.510	0.510						-0.510			
False Sunflower, Helipopsis helianthoides		0.140	0.140						-0.140			
Foxglove Beardtongue, Penstemon digitalis		0.013	0.013						-0.013			
Golden Alexanders, Zizia aurea		0.090	0.090						-0.090			
Gray Goldenrod, Solidago nemoralis		0.012	0.012						-0.012			
Gray-headed Coneflower, Ratibida pinnata	Available: Sunglow (statewide)	0.050	0.050						-0.050			
Illinois Bundlesflower, Desmanthus illinoensis	Available: Reno Germplasm (statewide)	0.150	0.150						-0.150			
Lanceleaf Coreopsis, Coreopsis lanceolata		0.200	0.200						-0.200			
Maximilian Sunflower, Helianthus maximiliani		0.010	0.010						-0.010			
Pale Purple Coneflower, Echinacea pallida		0.050	0.050						-0.050			

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>		0.048	0.048							-0.048		
Purple Coneflower, <i>Echinacea purpurea</i>		0.150	0.150							-0.150		
Purple Prairie Clover, <i>Dalea purpurea</i>	Available: Kaneb (statewide)	0.254	0.254							-0.254		
Rattlesnake Master, <i>Eryngium yuccifolium</i>		0.020	0.020							-0.020		
Roundhead Lespedeza, <i>Lespedeza capitata</i>	Available: Kanoka (statewide)	0.020	0.020							-0.020		
Showy Ticktrefoil, <i>Desmodium canadense</i>	Available: Alexander Germplasm (statewide)	0.040	0.040							-0.040		
Smooth Aster, <i>Symphotrichum laeve</i>		0.003	0.003							-0.003		
Stiff Goldenrod, <i>Oligoneuron rigidum</i> , <i>Solidago rigida</i>		0.010	0.010							-0.010		
Upright Prairie Coneflower, <i>Ratibida columnifera</i>		0.115	0.115							-0.115		
White Prairie Clover, <i>Dalea candida</i>		0.098	0.098							-0.098		
Wild Bergamot, <i>Monarda fistulosa</i>		0.120	0.120							-0.120		
Yarrow, <i>Achillea millefolium</i>		0.009	0.009							-0.009		
Total Planned:		6.586	6.586									
Planned Grasses PLS/ft ² :		25.00			Total PLS lbs. Forbs Planted: _____							
Planned Forbs/Legumes PLS/ft ² :		25.00			Total % of Mix: _____							
Planned Total PLS/ft ² :		50.00			% of mix of annual/biennial species: _____							
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.

