

### Job Sheet for Seeding

Planned by: MO Mix 34 - CP38E-4D Sand Eco 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: \_\_\_\_\_

Conditions Desired at Planting:

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)

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:

|              | Lime* | N | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |
|--------------|-------|---|-------------------------------|------------------|
| 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                         |                      |                                |                                   |        |                         |                 |                     |          |  |                        |
| 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/<br>Hard Seed | PLS lbs Planted | Shortage/<br>Excess | % of Mix | Cultivar OR Origin for MO Source Identified Class Seed | Meets all Requirements |
| Splitbeard Bluestem, <i>Andropogon ternarius</i>      | No cultivars available                                   | 1.345                        | 1.345                |                                |                                   |        |                         |                 | -1.345              |          |  |                        |
| Black-eyed Susan (B), <i>Rudbeckia hirta</i>          |  | 0.024                        | 0.024                |                                |                                   |        |                         |                 | -0.024              |          |  |                        |
| Blue Lobelia, <i>Lobelia siphilitica</i>              |  | 0.008                        | 0.008                |                                |                                   |        |                         |                 | -0.008              |          |  |                        |
| Canada Milkvech, <i>Astragalus canadensis</i>         |  | 0.120                        | 0.120                |                                |                                   |        |                         |                 | -0.120              |          |  |                        |
| Common Evening Primrose (B), <i>Oenothera biennis</i> |  | 0.020                        | 0.020                |                                |                                   |        |                         |                 | -0.020              |          |  |                        |
| Common Milkweed, <i>Asclepias syriaca</i>             |  | 0.470                        | 0.470                |                                |                                   |        |                         |                 | -0.470              |          |  |                        |
| False Sunflower, <i>Heliopsis helianthoides</i>       |  | 0.220                        | 0.220                |                                |                                   |        |                         |                 | -0.220              |          |  |                        |
| Foxglove Beardtongue, <i>Penstemon digitalis</i>      |  | 0.010                        | 0.010                |                                |                                   |        |                         |                 | -0.010              |          |  |                        |
| Golden Alexanders, <i>Zizia aurea</i>                 |  | 0.150                        | 0.150                |                                |                                   |        |                         |                 | -0.150              |          |  |                        |
| Gray Goldenrod, <i>Solidago nemoralis</i>             |  | 0.020                        | 0.020                |                                |                                   |        |                         |                 | -0.020              |          |  |                        |
| 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)                    | 0.300                        | 0.300                |                                |                                   |        |                         |                 | -0.300              |          |  |                        |
| Lanceleaf Coreopsis, <i>Coreopsis lanceolata</i>      |  | 0.150                        | 0.150                |                                |                                   |        |                         |                 | -0.150              |          |  |                        |
| Maximilian Sunflower, <i>Helianthus maximiliani</i>   |  | 0.160                        | 0.160                |                                |                                   |        |                         |                 | -0.160              |          |  |                        |
| Pale Purple Coneflower, <i>Echinacea pallida</i>      |  | 0.150                        | 0.150                |                                |                                   |        |                         |                 | -0.150              |          |  |                        |
| Partridge Pea (A), <i>Chamaecrista fasciculata</i>    | Available: Riley (statewide), Lark Selection (statewide) | 0.400                        | 0.400                |                                |                                   |        |                         |                 | -0.400              |          |  |                        |
| Prairie Cinquefoil, <i>Drymocallis arguta</i>         |  | 0.012                        | 0.012                |                                |                                   |        |                         |                 | -0.012              |          |  |                        |
| Purple Prairie Clover, <i>Dalea purpurea</i>          | Available: Kaneb (statewide)                             | 0.290                        | 0.290                |                                |                                   |        |                         |                 | -0.290              |          |  |                        |
| Rattlesnake Master, <i>Eryngium yuccifolium</i>       |  | 0.090                        | 0.090                |                                |                                   |        |                         |                 | -0.090              |          |  |                        |
| Roundhead Lespedeza, <i>Lespedeza capitata</i>        | Available: Kanoka (statewide)                            | 0.220                        | 0.220                |                                |                                   |        |                         |                 | -0.220              |          |  |                        |

|  |  |       |       |  |  |  |  |  |  |        |  |  |
|--|--|-------|-------|--|--|--|--|--|--|--------|--|--|
| Showy Ticktrefoil, <i>Desmodium canadense</i>                        | Available: Alexander Germplasm (statewide) | 0.250 | 0.250 |  |  |  |  |  |  | -0.250 |  |  |
| Smooth Aster, <i>Symphotrichum laeve</i>                             |  | 0.040 | 0.040 |  |  |  |  |  |  | -0.040 |  |  |
| Stiff Goldenrod, <i>Oligoneuron rigidum</i> , <i>Solidago rigida</i> |  | 0.060 | 0.060 |  |  |  |  |  |  | -0.060 |  |  |
| Swamp Milkweed, <i>Asclepias incarnata</i>                           |  | 0.030 | 0.030 |  |  |  |  |  |  | -0.030 |  |  |
| Upright Prairie Coneflower, <i>Ratibida columnifera</i>              |  | 0.045 | 0.045 |  |  |  |  |  |  | -0.045 |  |  |
| White Prairie Clover, <i>Dalea candida</i>                           |  | 0.110 | 0.110 |  |  |  |  |  |  | -0.110 |  |  |
| Wild Bergamot, <i>Monarda fistulosa</i>                              |  | 0.020 | 0.020 |  |  |  |  |  |  | -0.020 |  |  |
| Yarrow, <i>Achillea millefolium</i>                                  |  | 0.009 | 0.009 |  |  |  |  |  |  | -0.009 |  |  |

|   |       |                                      |       |
|---|-------|--------------------------------------|-------|
| Total Planned:                              |       | 4.803                                | 4.803 |
| Planned Grasses PLS/ft <sup>2</sup> :       | 6.67  | Total PLS lbs. Forbs Planted:        | _____ |
| Planned Forbs/Legumes PLS/ft <sup>2</sup> : | 20.00 | Total % of Mix:                      | _____ |
| Planned Total PLS/ft <sup>2</sup> :         | 26.67 | % 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.

